Notes Ck'd by	Survey of	F.B. 2963 Pg.
Map No.	JN Tape Std °F	
Office Work	Surveyed by	
Checked	Notes Date	
Date	Indexed	

Page	Job	Description
		WATERWORKS DISTRICT 29 -5294.31
5-18	C.L.	Survey of watermain alignment on Pacific Coast Hwy. from Zuma Beach ent. to Trancas Cyn. Rd.
19-49	Topog.	Of the above area.
51-87	X-Sec.	Cross-sections of watermain alignment on Pacific Coast Hwy. from Zuma Beach ent. to Trancas Cyn. Rd.
89-92	Ties	Cad. ties to L.A. Co. Precise Traverse Control Station on the above area.
93-108	Loc.Imp	Watermain alignment on Pacific Coast Hwy. from Zuma View Drive to Zuma Beach ent.
109-11[illegible]	Ties	Cadastral ties on Pacific Coast Hwy. from Zuma View Dr. to Zuma Beach ent
113-130	Loc.Imp	Location of improvements from Sta. 302+05.78 = 0+00 to Sta. 86+45.02= 0+00.
131-168	B.M.	Bench levels from Zuma View Drive to Zuma Bch Ent.
169-170	Loc.Imp	Watermain alignment-invert pickup in Zuma Beach Area - J.N. 5294.31
171-172	Loc.Imp	Watermain alignment-plotted profile of CTR pav. N. edge shoulder & 24" R.C.P. drain ln shown on Page 77 of this book 2963.

Microfilmed April 85

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76P309S CE #310 5-66

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Survey of WATER MAIN ALIGN. F. B. 2963 Pg. 5
JN 52943 Tape 0222 Std 68 °F
Surveyed by R.C. Bowers
Notes RCB. Date 6/62
Indexed H. E. OTT JUL 2 '62

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY,
WATER WORKS DIST. 29

From ZUMA BEACH ENT.

To

Trancas Canyon Road

J.N. 52943

June 1962

REF.
A91-001

PARTY
Bowers
LaGault
Crowder
Ohashi

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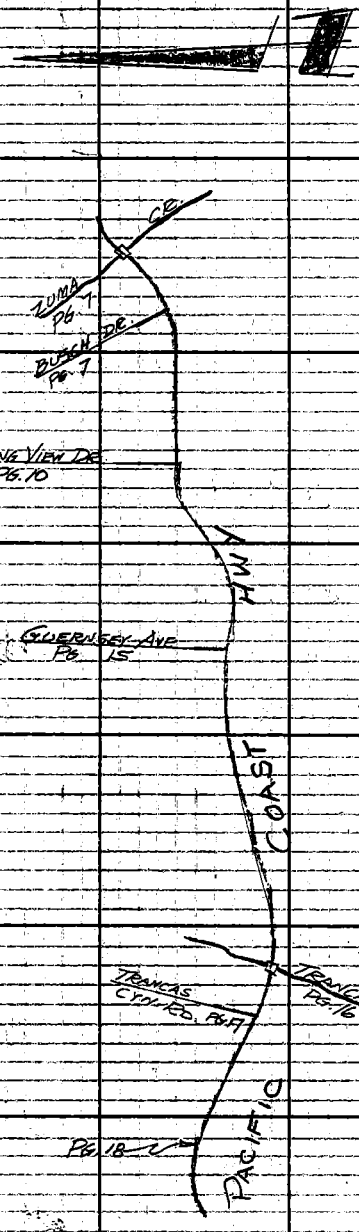
76F3095 CE # 310 3-61

F. B. 2963 Pg. 6

INDEX



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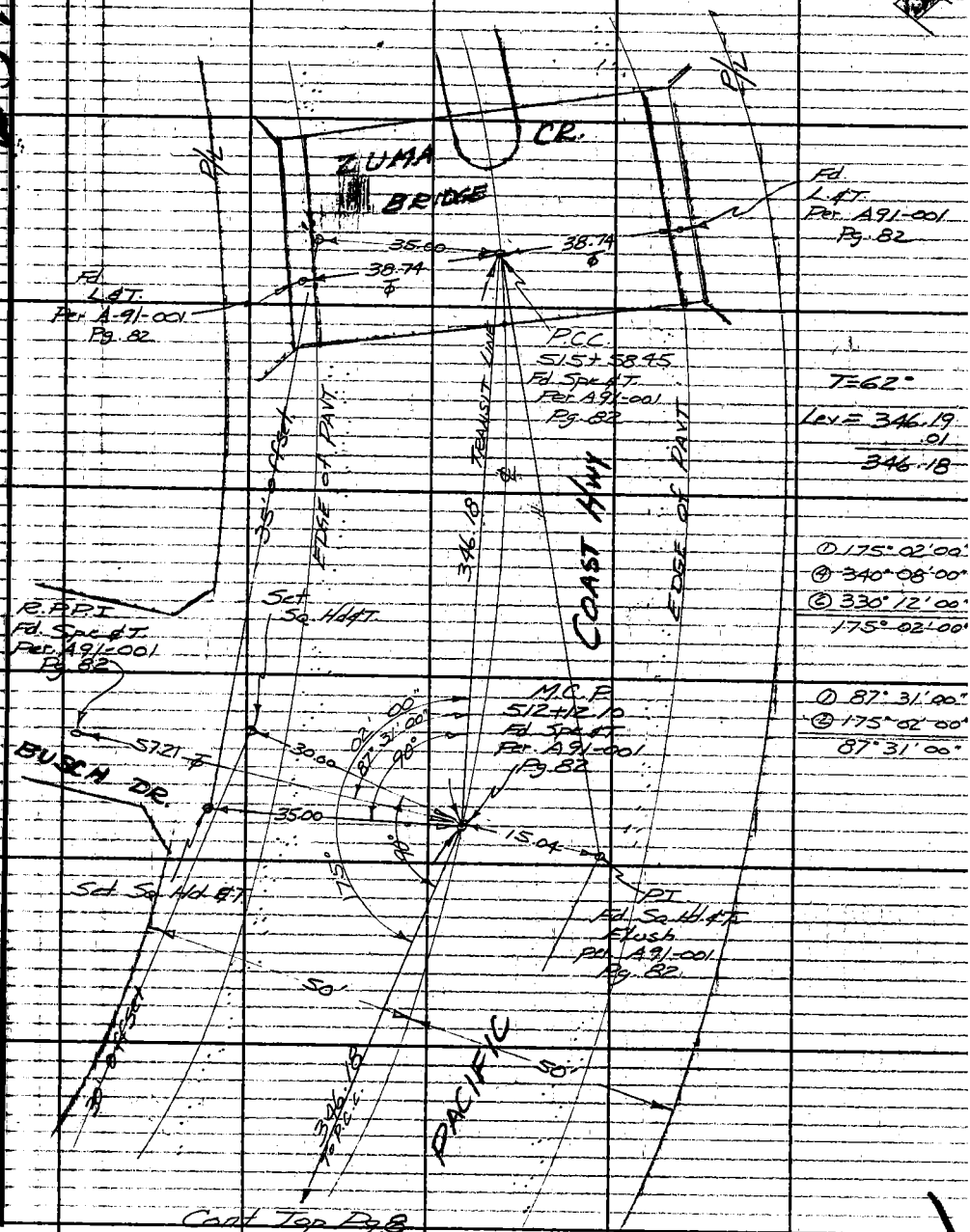
Notes Ck'd by	Survey of WATER MAIN ALIGN.	F. B. 2963 PG. 7
Map. No.	JN 5294-31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R. C. BOWIERS	
Checked	Notes R.C.B. Date 6/62	
Date	Indexed H. E. OTT	

W.S95.D-4

Cont from Pg. 108



T=62°
Lev = 346.19
.01
346.18

① 175° 02' 00"
④ 340° 08' 00"
② 330° 12' 00"
175° 02' 00"

① 87° 31' 00"
② 175° 02' 00"
87° 31' 00"

Cont Top Pg. 8

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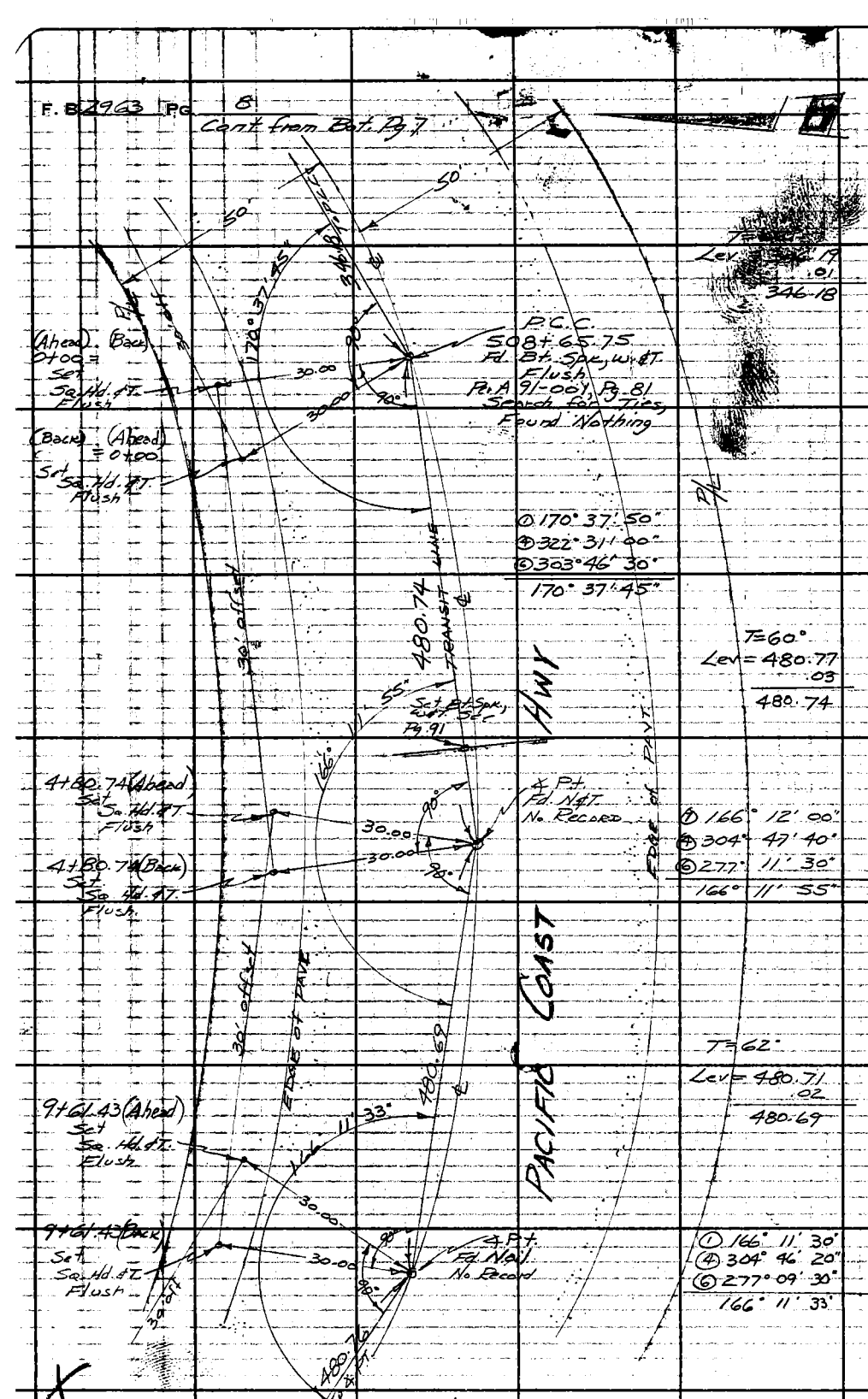
76F3095 CE # 310 3-61

F. B. 2963 Pg. 8

Cont. from Bot. Pg. 7



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Cont. to Pg. 9

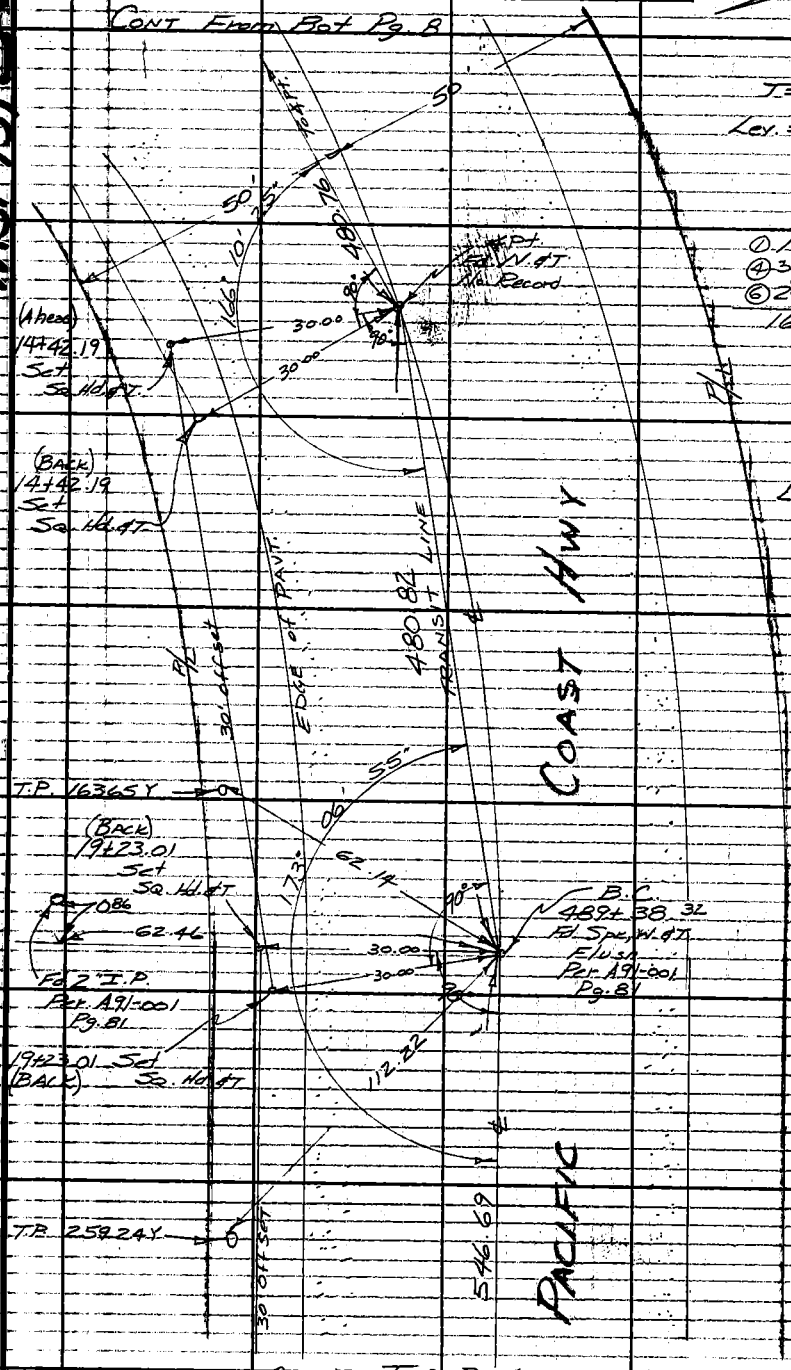
Notes Ck'd by	Survey of WATER MAIN ALIGN.
Map No.	JN 5294.31 Tape 0222 Std 68 °F
Office Work	Surveyed by [illegible] C. Bowers
Checked	Notes R.C.B. Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 PG. 9

3 9

W.S. 95, C-4

CONT From Bot Pg. 8



T = 62°
Lev. = 480.79
.03
480.76

① 166° 10' 20"
④ 304° 41' 20"
⑥ 277° 02' 30"
166° 10' 25"

T = 62°
Lev = 480.84
.02
480.82

① 173° 06' 50"
④ 332° 27' 40"
⑥ 318° 41' 30"
173° 06' 55"

CONT Top Pg. 10

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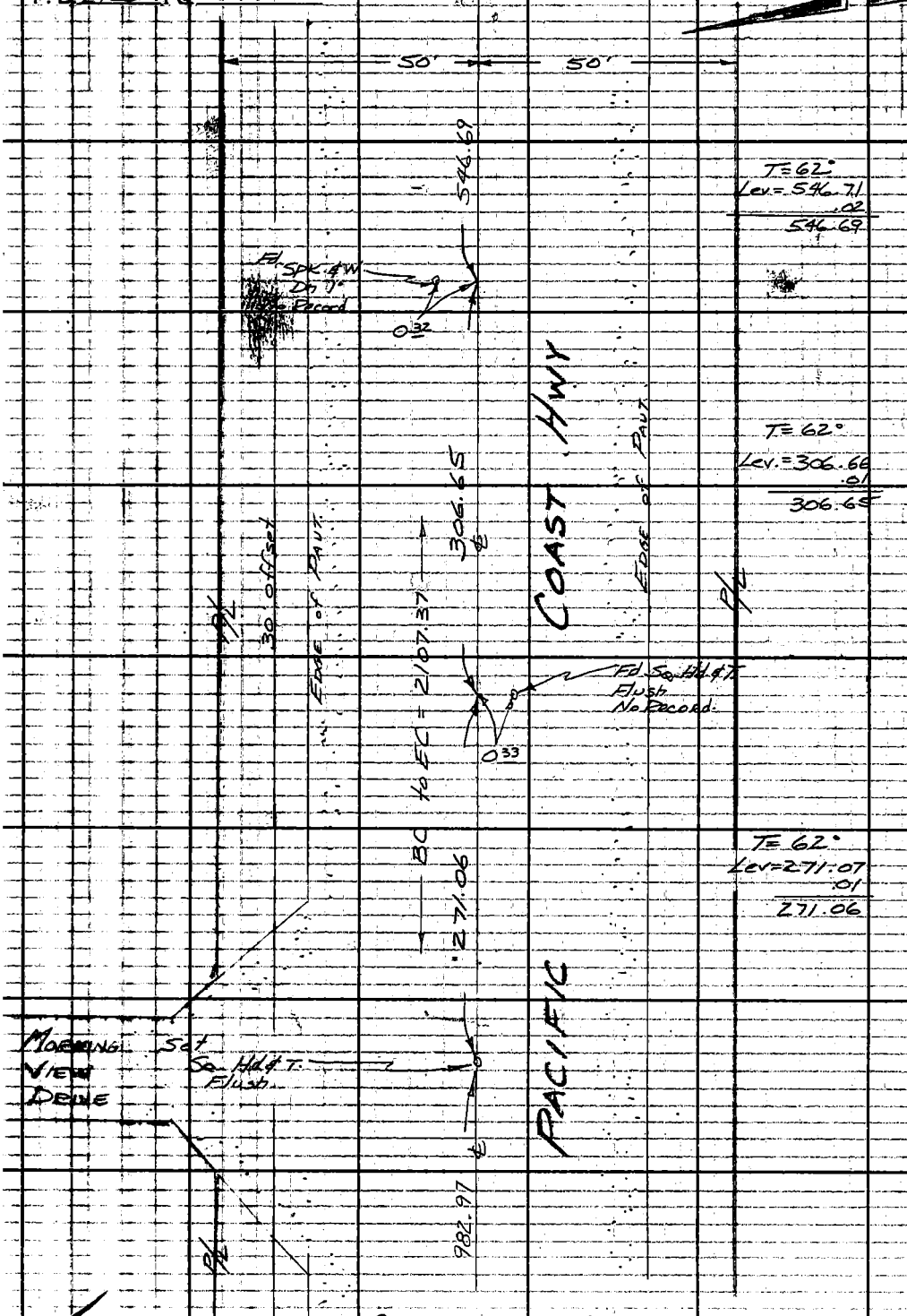
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F3095 CE # 310 3-61

F. B. 2963 PG. 10

CONT. FROM BOT. PG. 9.



CONT ON TOP PG. 11

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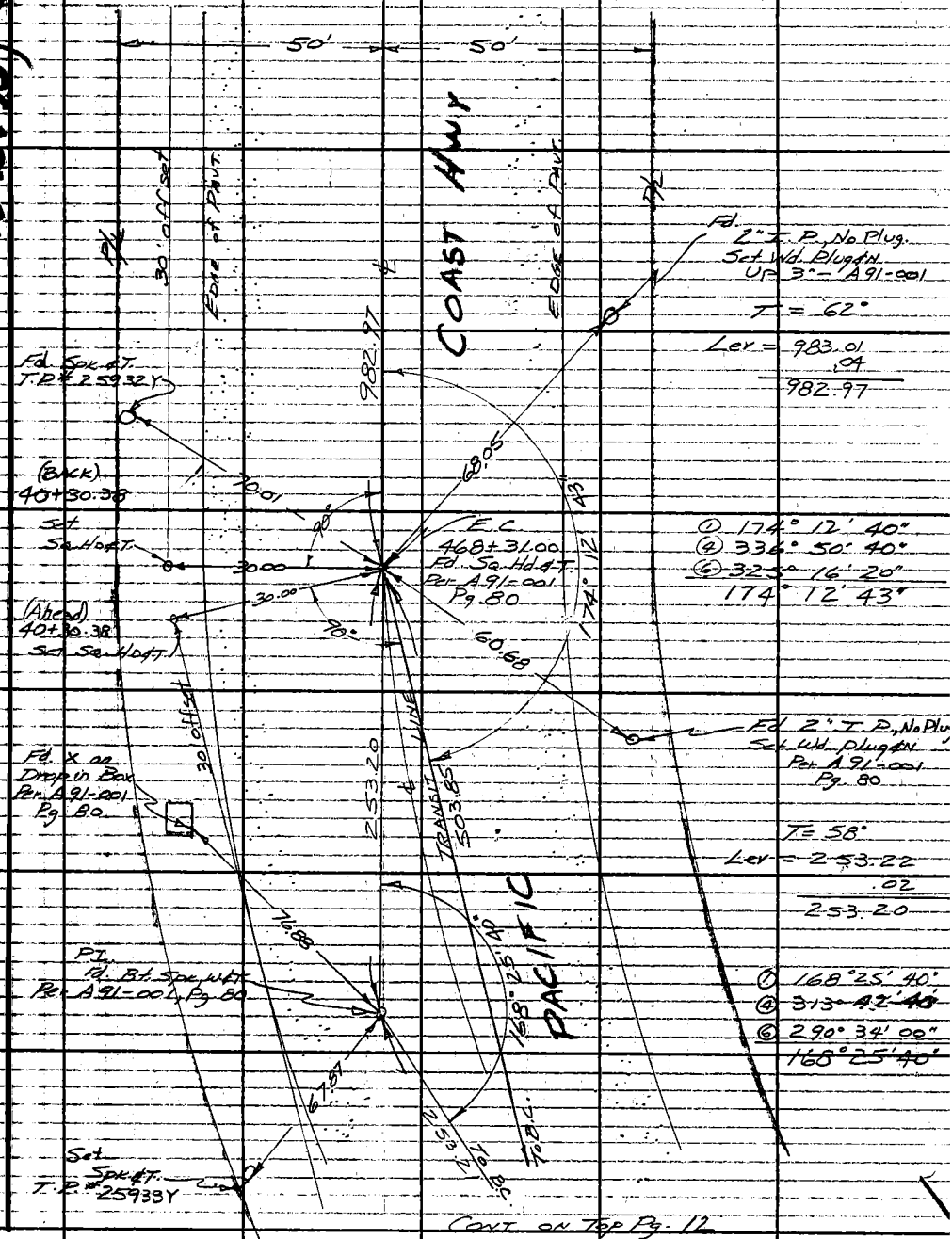
Notes Ck'd by	Survey of WATER MAIN ALIGN	F. B. 2963 PG. 11
Map No.	JN 529431 Tape 0222 Std 68 °F	
Office Work	Surveyed by R.C. BOWERS	
Checked	Notes R.C.B. Date 6/62	
Date	Indexed H. F. OTT	

CONT from Bot. Pg. 10



CONT ON Top Pg. 12

W.S. 95, C 4

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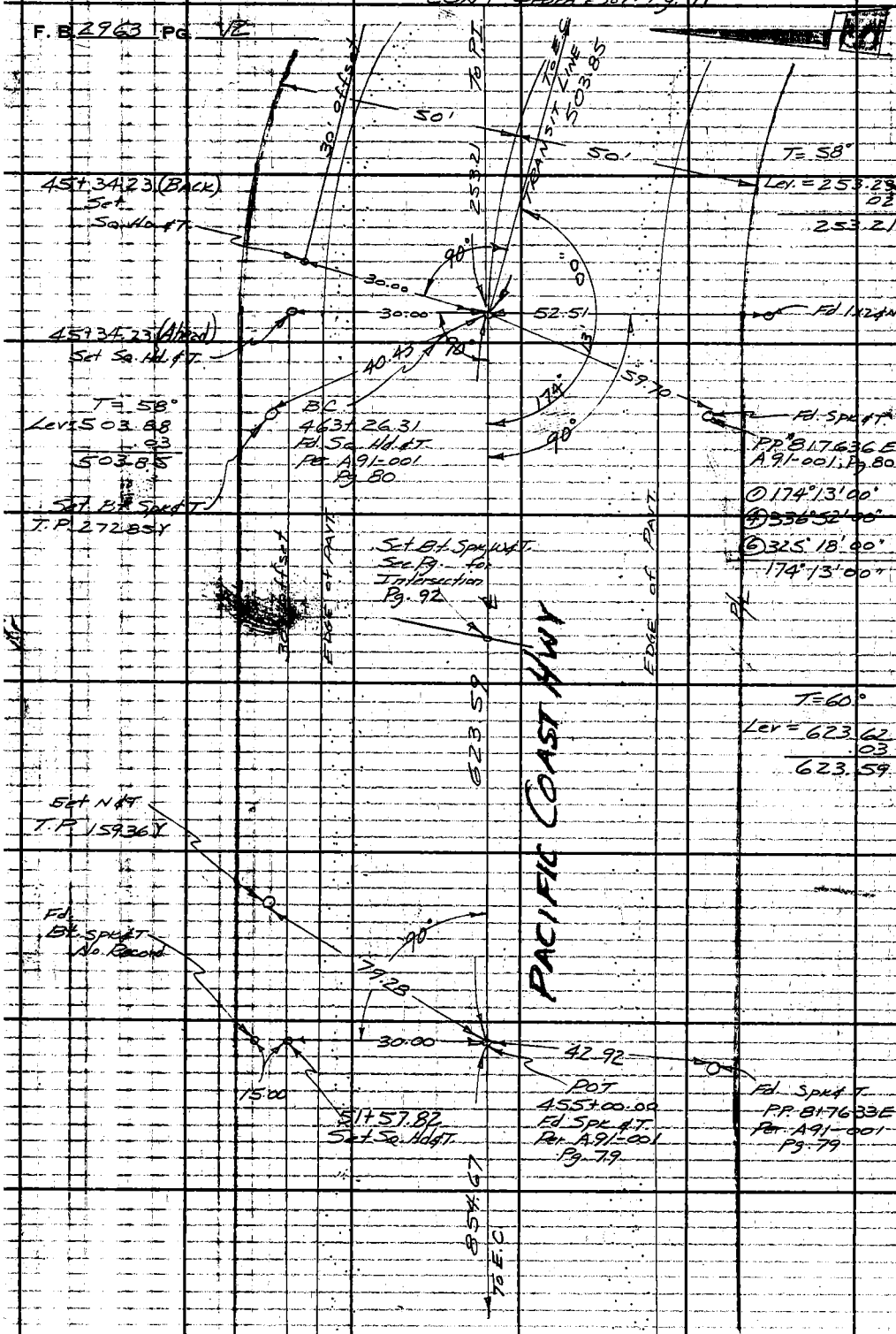
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

CONT from Bot. Pg. 11

F. B. 2963 PG. 12



CONT on Top Pg. 13

W595 C-4

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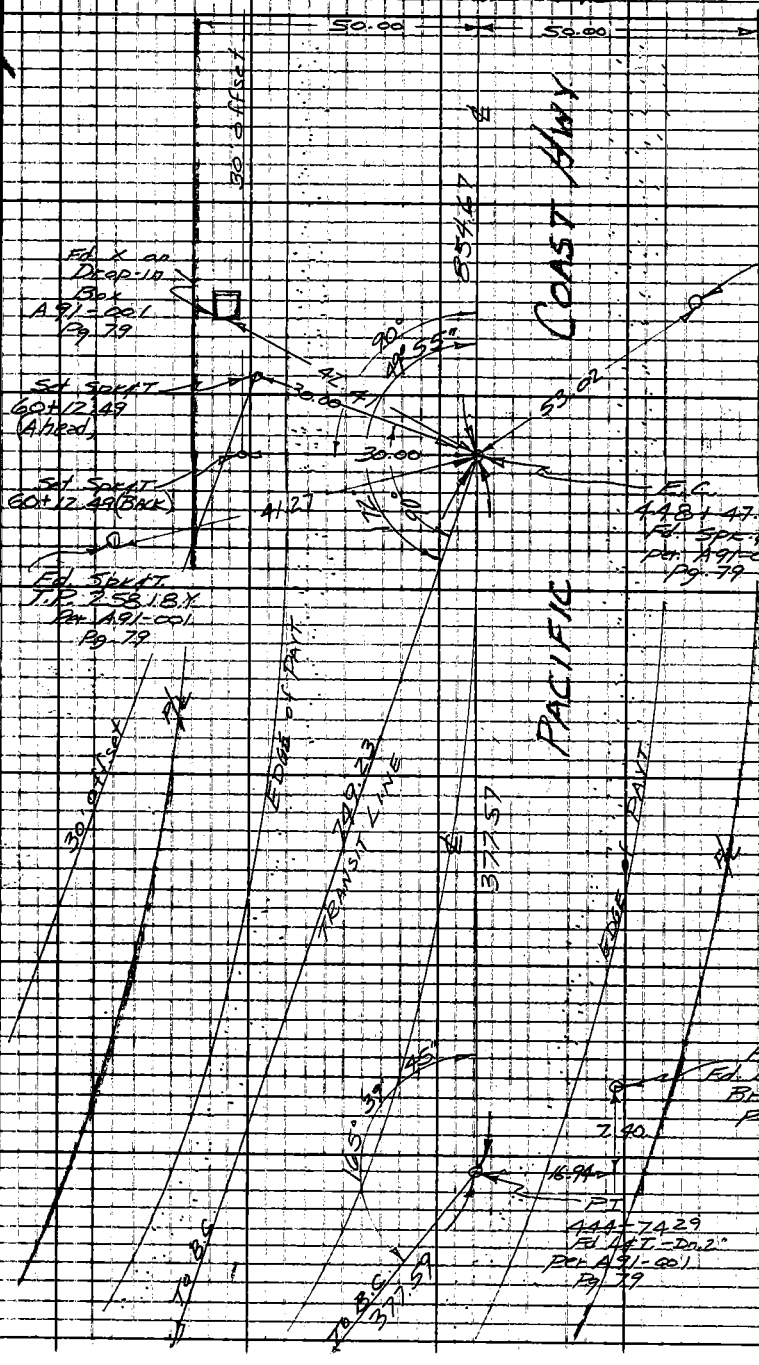
Notes Ck'd by	Survey of WATER MAIN ALIGN
Map No.	JN 5294.31 Tape 0222 Std 68 °F
Office Work	Surveyed by R. C. Bowers
Checked	Notes R.C.B. Date 6/62
Date	Indexed H. E. OTT

E. B. 2963 PG. 13

W.S. 95, 64

Cont from Bot 12



T=60°
Lev. = 854.71
.04
854.67

Fd Spk&T. PP-817629E Per A91-001 Pg 79

① 172° 50' 00"
④ 331° 19' 40"
⑥ 316° 59' 30"
172° 49' 55"

T=66°
Lev. = 377.57
.00
377.57

T=66°
Lev. = 749.24
.01
749.23

① 165° 39' 50"
④ 302° 39' 00"
⑥ 273° 58' 30"
165° 39' 45"

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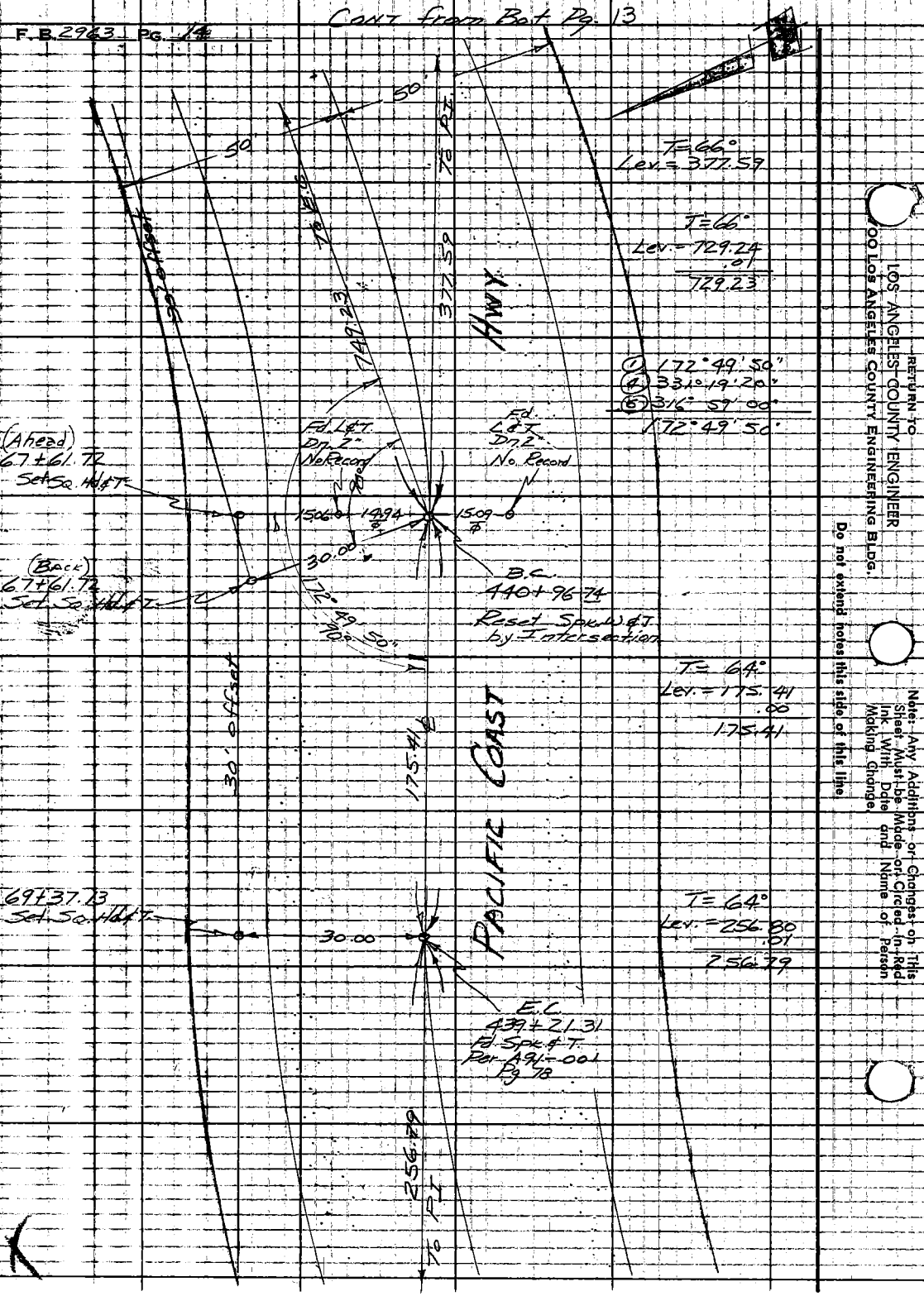
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247 7-53

F.B. 2963 PG. 14

Cont. from Bk. Pg. 13



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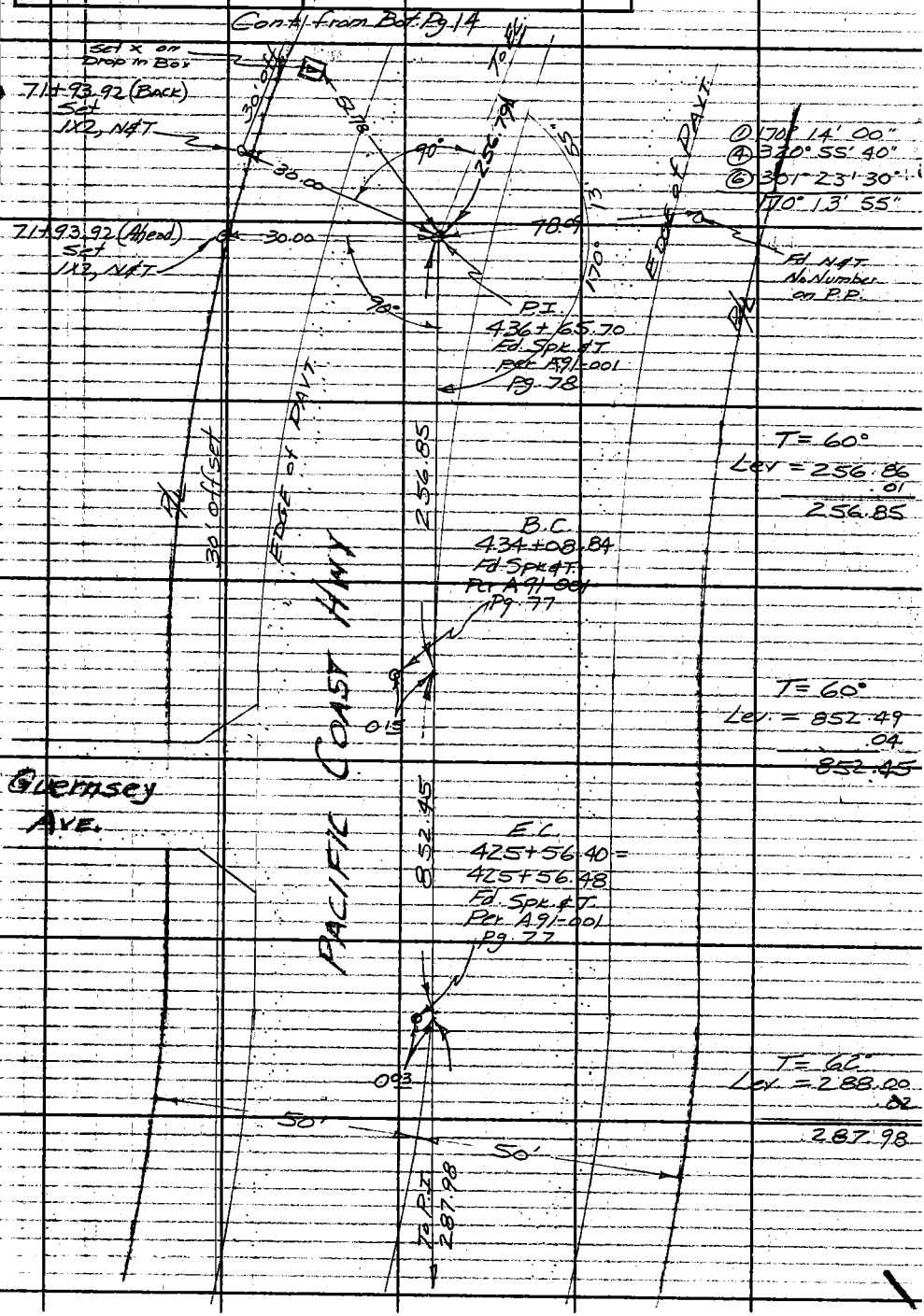
Notes Ck'd by	Survey of WATER MAIN ALIGN.	F. B. 2963 PG. 15
Map No.	JN 5294.31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R.C. BOWERS	
Checked	Notes R.C.B. Date 6/62	
Date	Indexed H. E. OTT	



W.S. 95.64

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76F3095 CE # 310 3-61

Cont from Bot Pg 15

WS 95 C-4

Cont Top Pg 17

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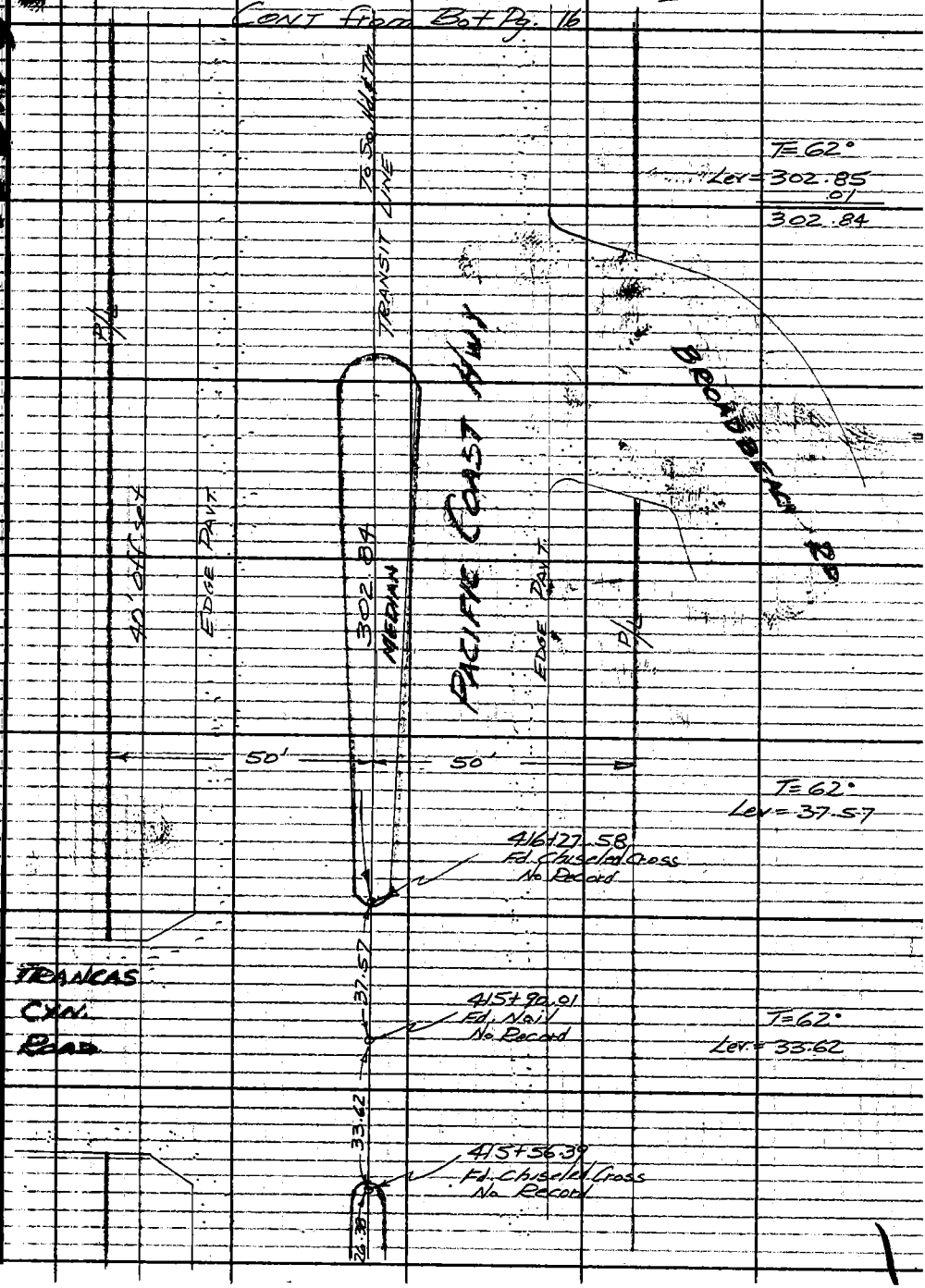
Checked

Survey of WATER MAIN ALIGN
JN 5294.31 Tape 0222 Std 68 °F
Surveyed by R.C. Bowers
Notes RCB Date 6/62
Indexed H. E. OTT

F. B. 2963 PG. 17

CONT from Bot Pg. 16



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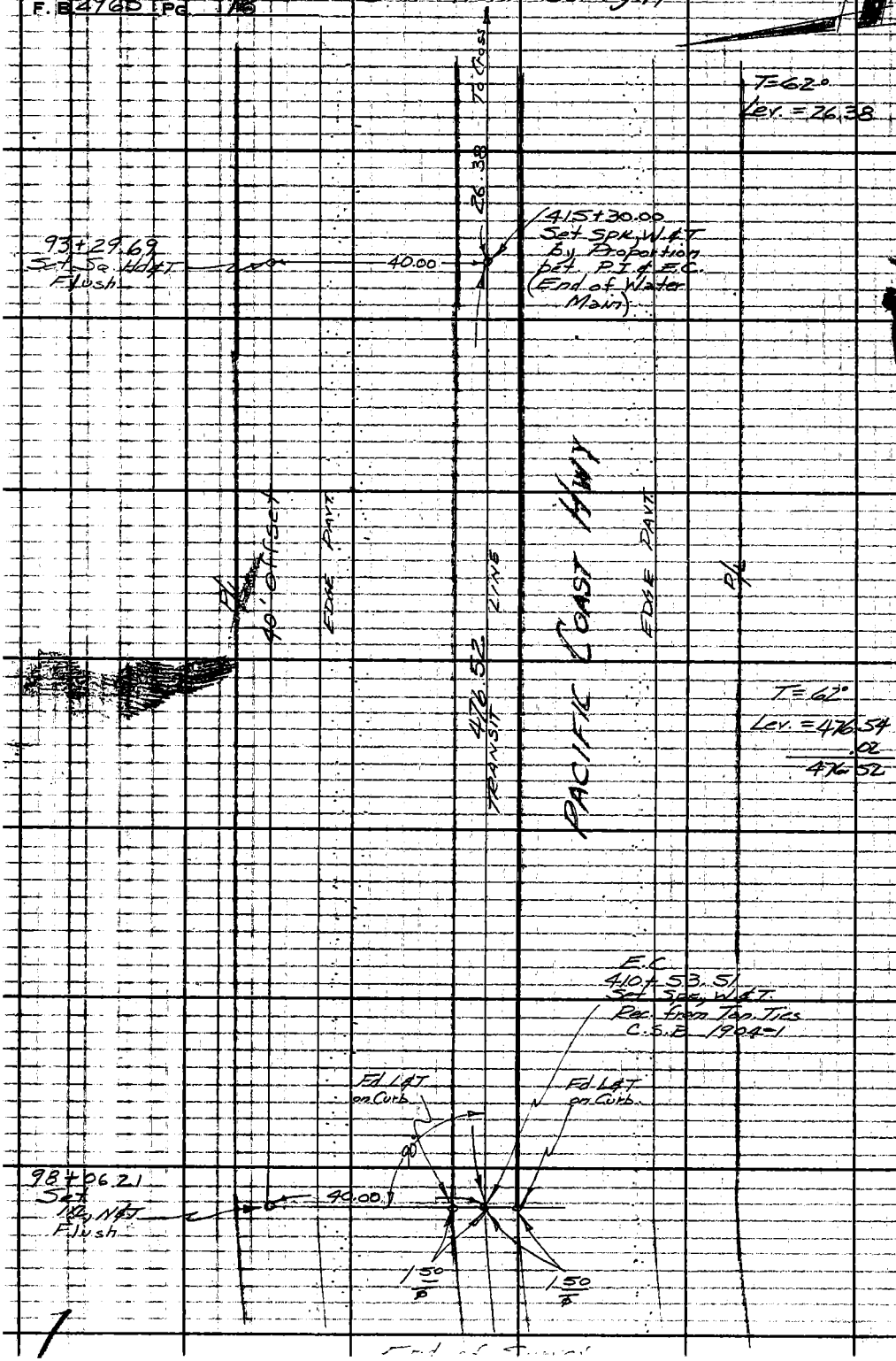
76F3095 CE # 310 3-61

F. B 2968 PG. 18

Cont from Bot Pg. 17



W.S. 95

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Survey of WATER MAIN ALIGN
JN 5294.31 Tape Std °F
Surveyed by R BOWERS
Notes LEGAULT Date 6/62
Indexed H. E. OTT

F. B. 2963 Pg. 19

TO POG

OF

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY

WATER WORKS DIST #29

FROM ZUMA BEACH ENT.

TO

TOPANGA CANYON ROAD

JN. 5294.31

PARTY

BOWERS

LEGAULT

CROWDER

OHASHI

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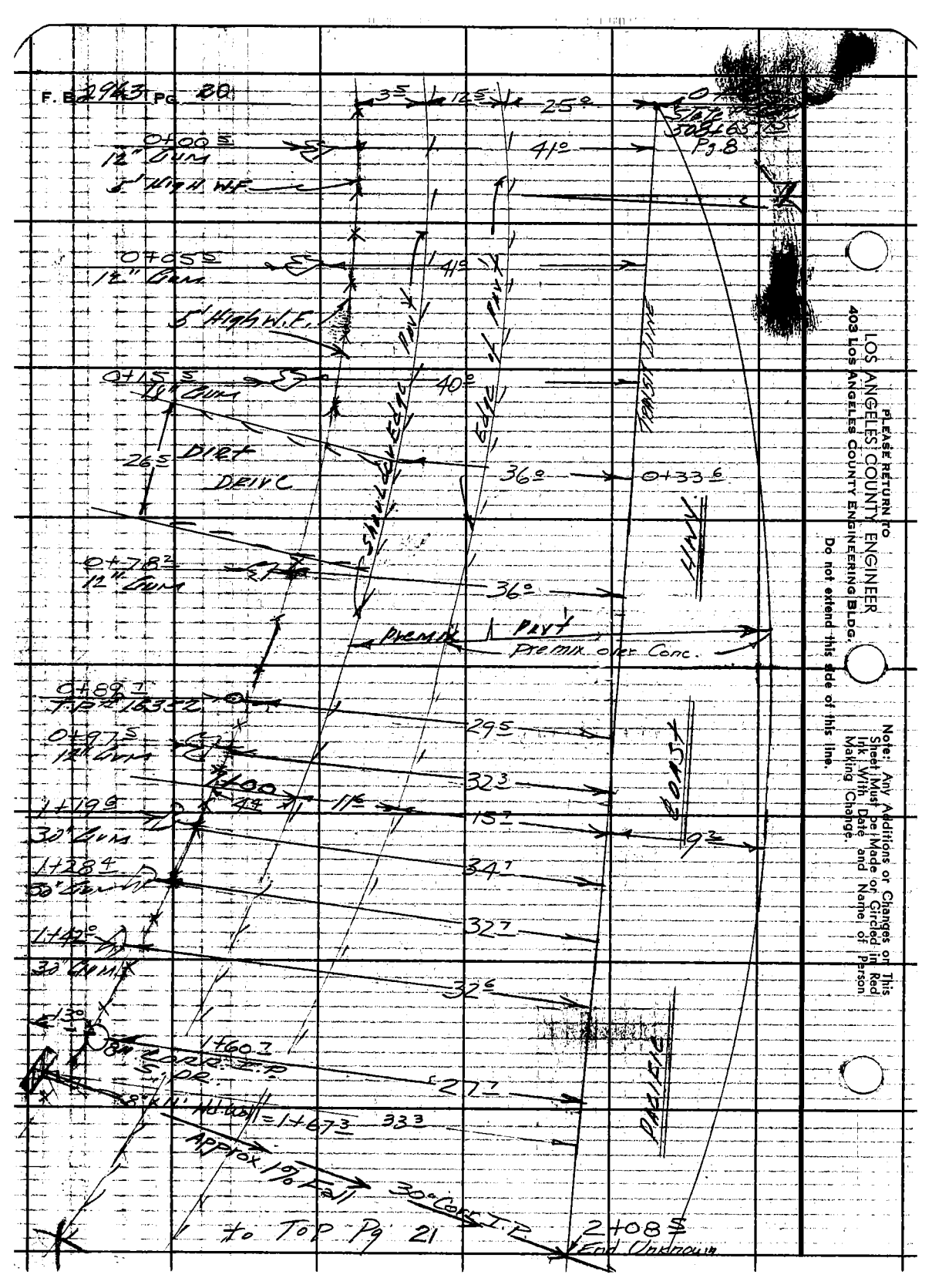
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE # 310 3-61

F. B. 2943 PG. 80



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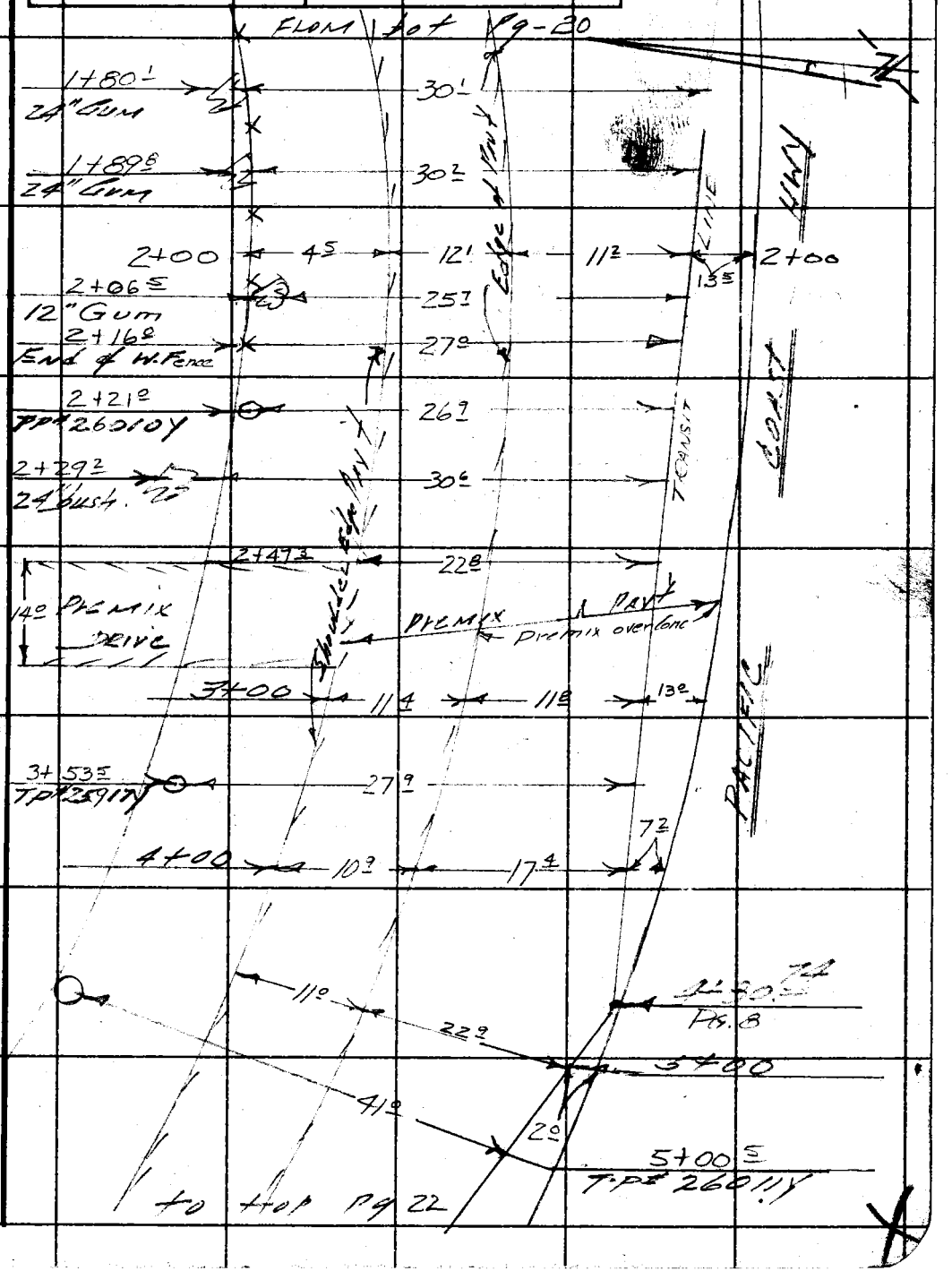
Notes Ck'd by	Survey of WATER MAIN ALIGN
Map No.	JN 529431 Tape Std °F
Office Work	Surveyed by R. BOWERS
Checked	Notes LeGAULT Date 6/62
Date	Indexed H. E. OTT

F. B. 963 PG. 21



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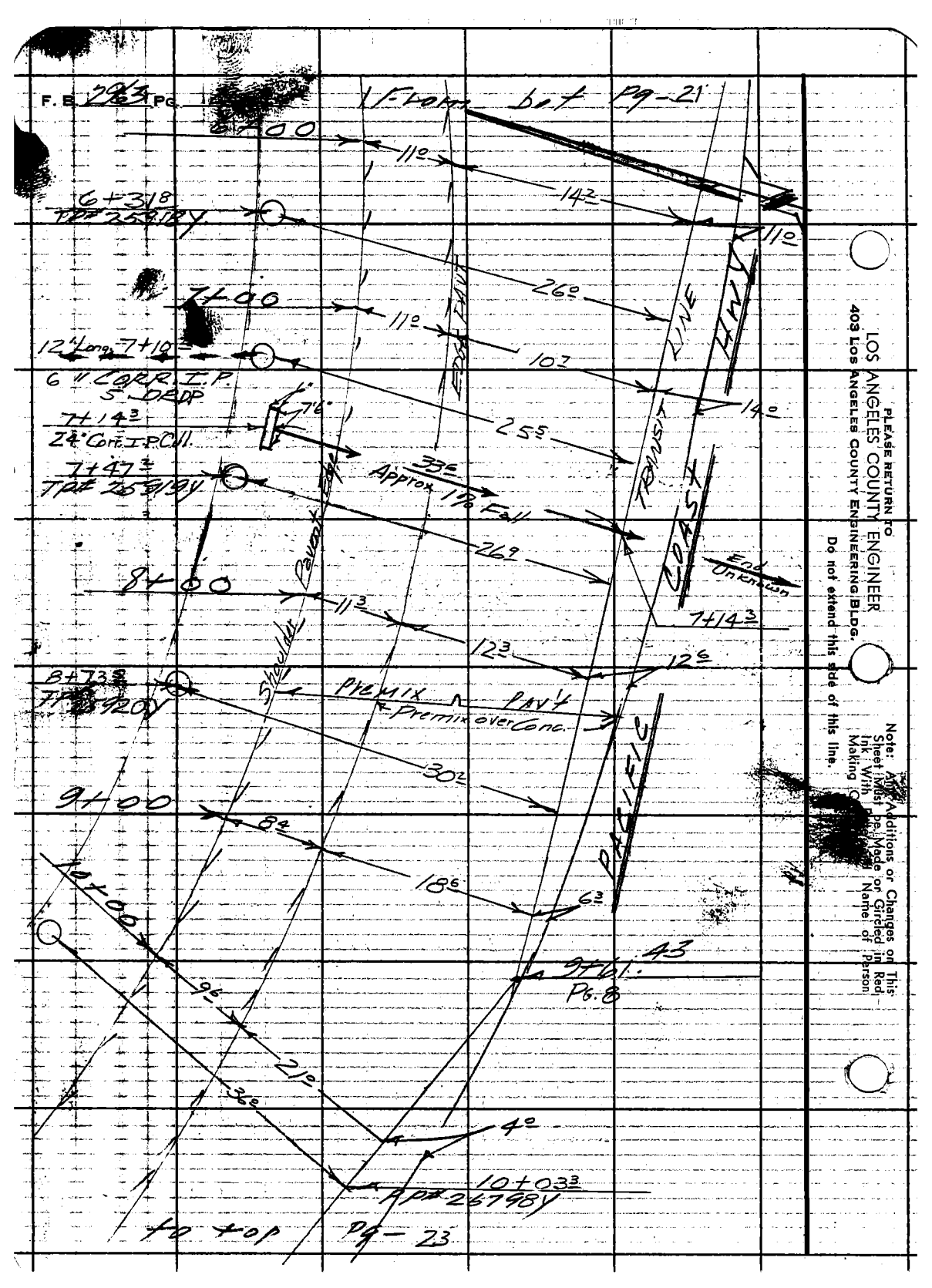
76F3095 CE # 310 3-61


F. B. 2963 PG.
From bot Pg-21
6+00
11°
14²
11°
6+31⁸
TP# 25918Y
26°
7+00
11°
10⁷
12" Long. 7+10³
6" CORR. I.P.
S. DRDP
7+14³
24" Corr. I.P. Cull.
7'6"
25⁵
14°
7+47²
TP# 25919Y
33⁶
Approx 1% Fall
26⁹
End Unknown
8+00
11³
12³
12⁶
7+14³
8+73⁵
TP# 25920Y
Premix Pav't
Premix over Conc.
30²
9+00
8⁴
18⁶
6³
10+00
9⁶
21°
36°
9+61.43
Pg. 8
4°
10+03³
PP# 26798Y
to top Pg-23
Shoulder Pavement Edge
Edge Pavt
Transit Line
Coast Hwy
Pacific
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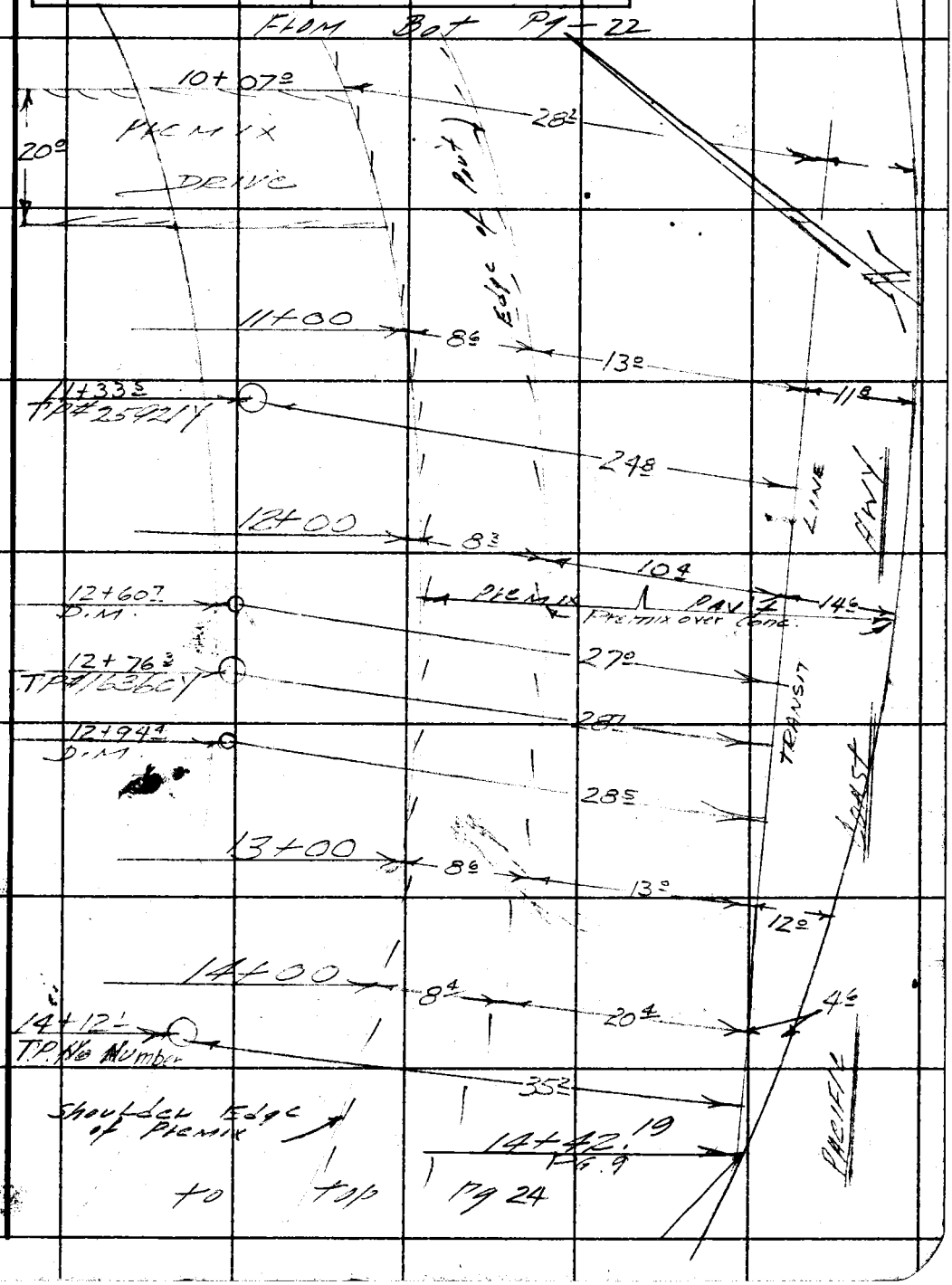
Map No.	JN 5294.31 Tape Std °F
Office Work	Surveyed by R. BOWERS
Checked	Notes LC GAULT Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 PG. 23



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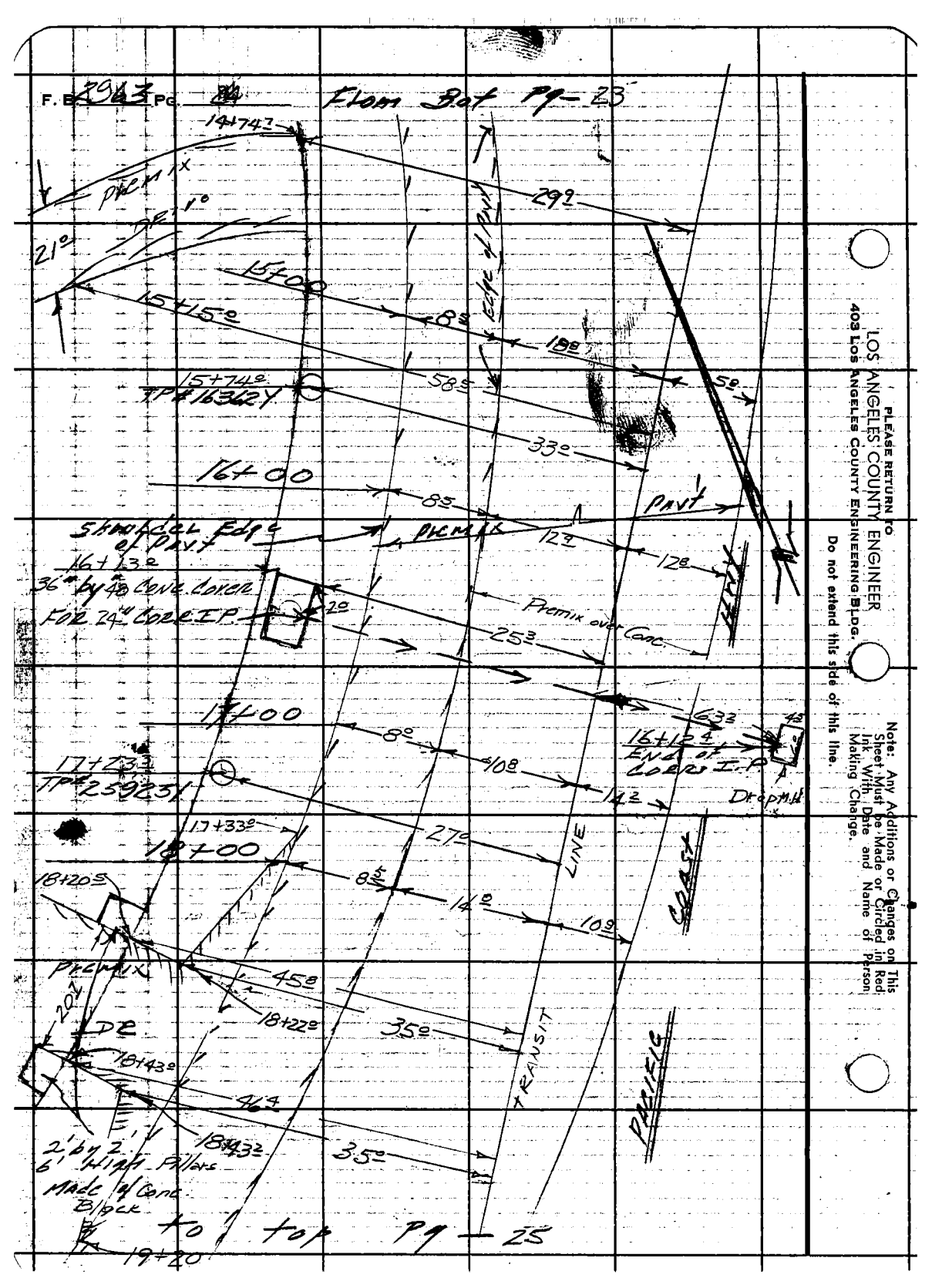
76F3095 CE # 310 3-61



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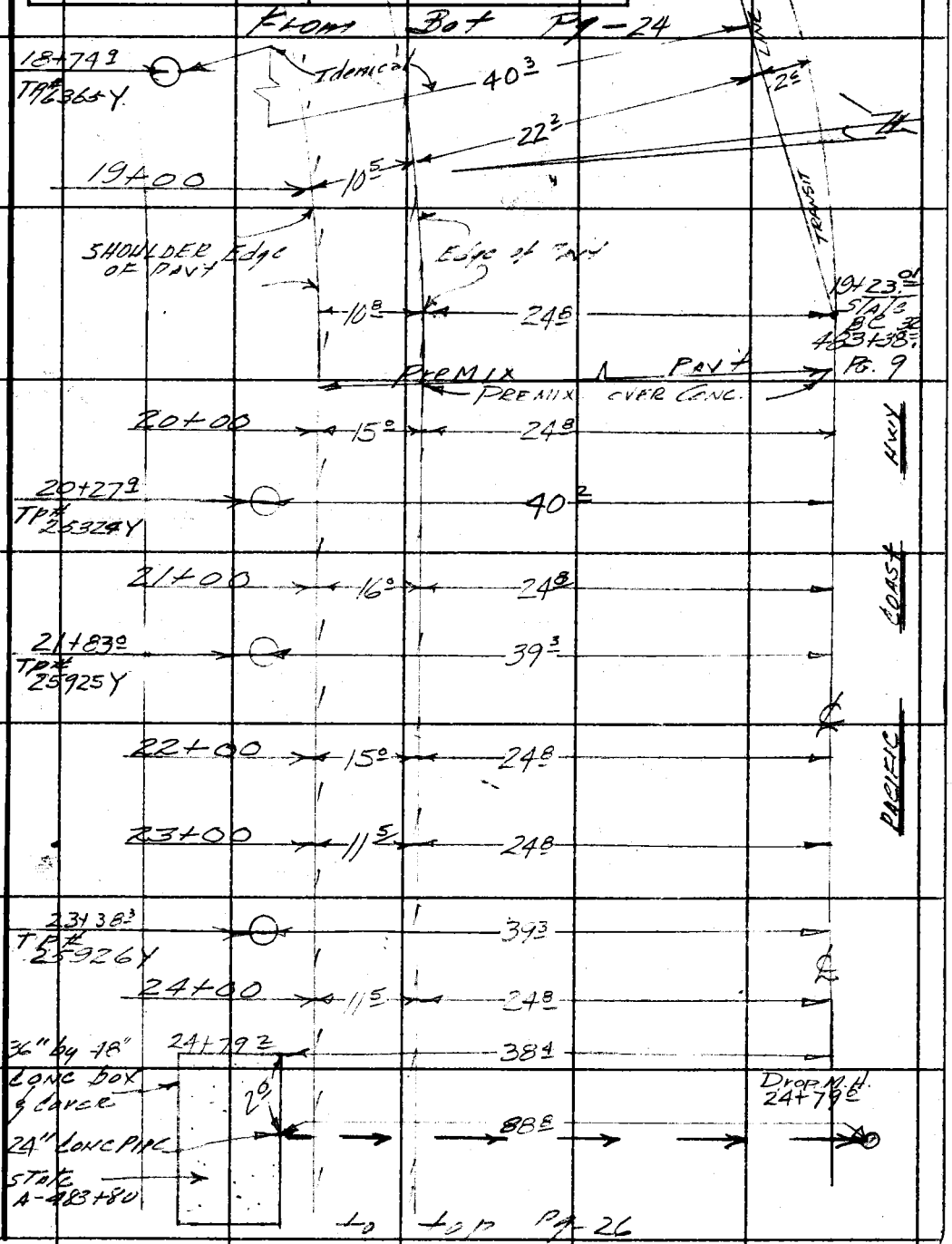
Notes Ck'd by	Survey of WATER MAIN ALIGN
Map No.	JN 52943 Tape Std °F
Office Work	Surveyed by R. BOWERS
Checked	Notes LC GAULT Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 PG. 25



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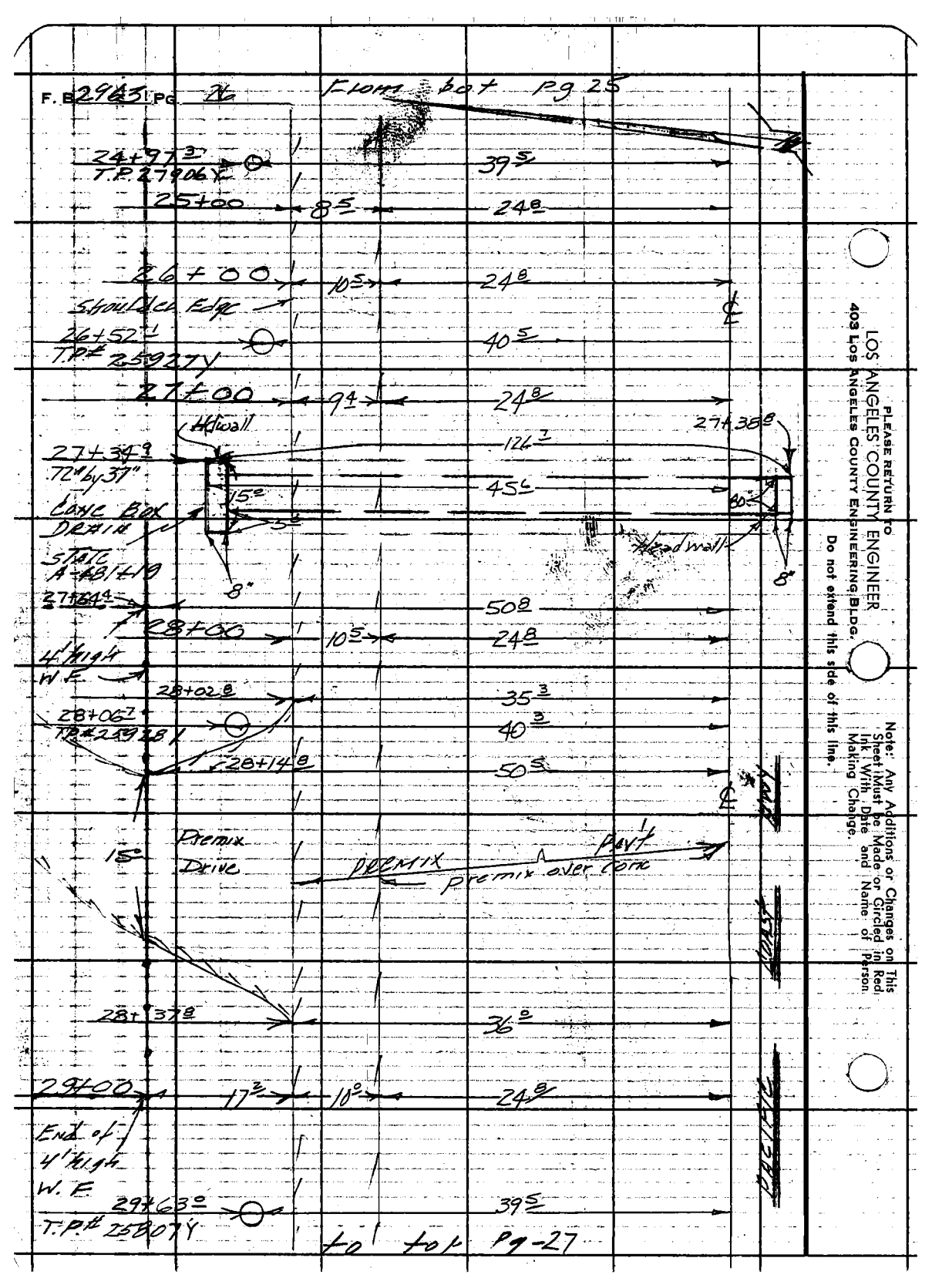
76F3095 CE # 310 3-61

F. B. 2963 Pg. 26



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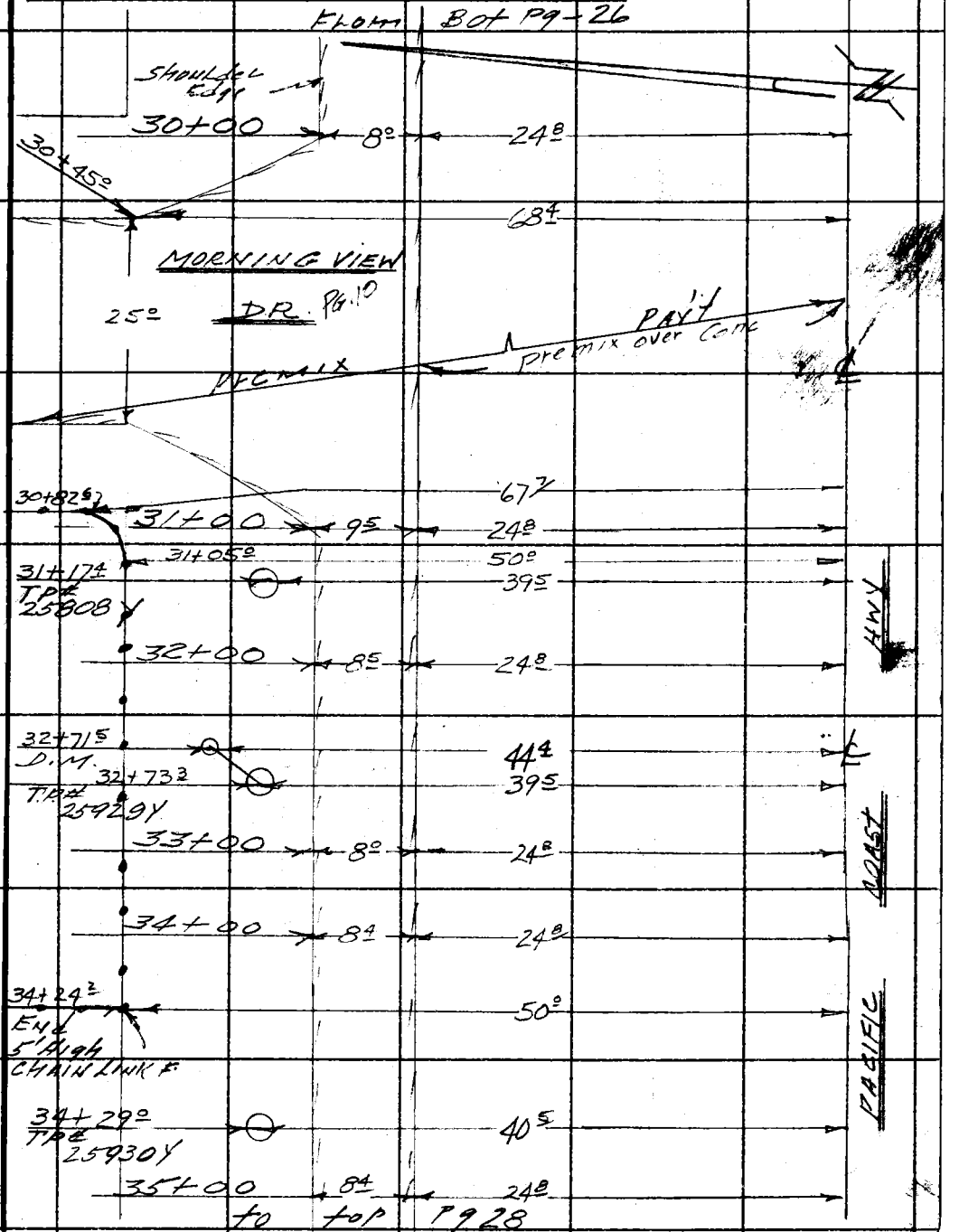
Notes Ck'd by	Survey of Water Main Alich
Map No.	JN 52943L Tape Std °F
Office Work	Surveyed by R. Bowers
Checked	Notes LeGault Date 6/62
Date	Indexed H. E. OTT.

F. B. 2963 PG. 27



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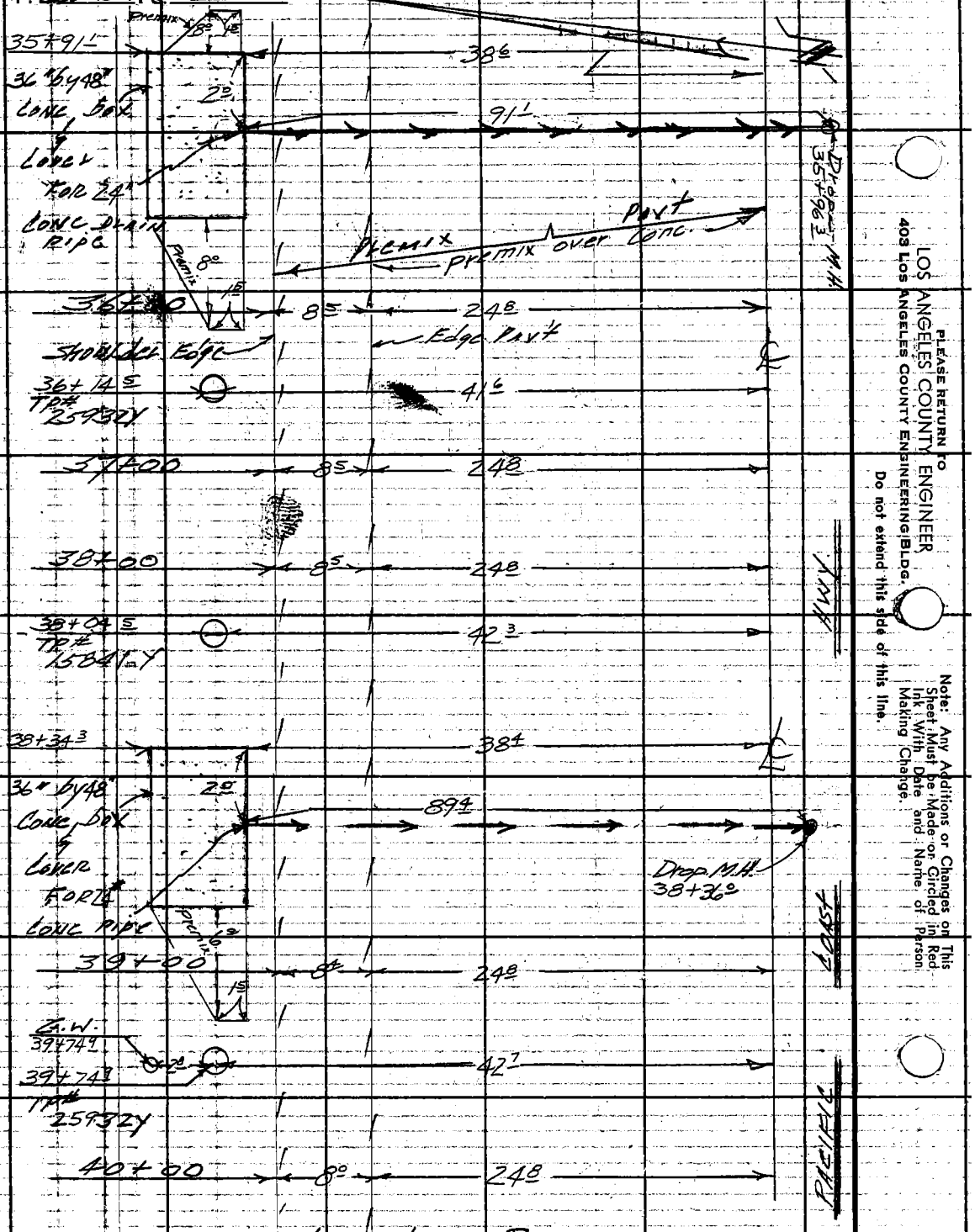
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

CONT from Bot Pg 27

F. B. 2963 PG. 28



to top Pg 29

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

Survey of WATER MAIN ALIGN
JN 57943 Tape Std °F
Surveyed by R. BOWLES
Notes LE GAULT Date 6/62
Indexed H. E. OTT

F. B. 2963 Pg. 29

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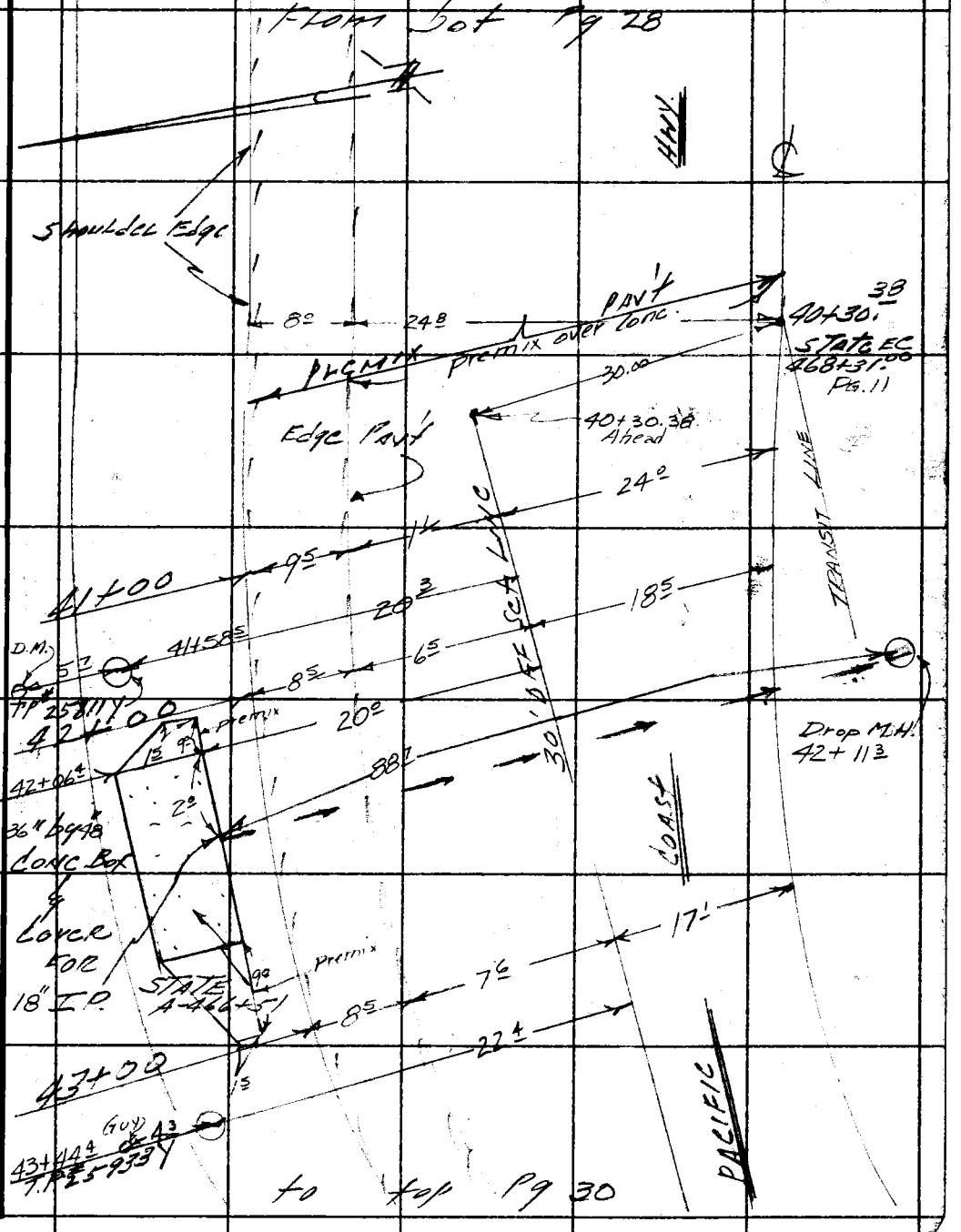
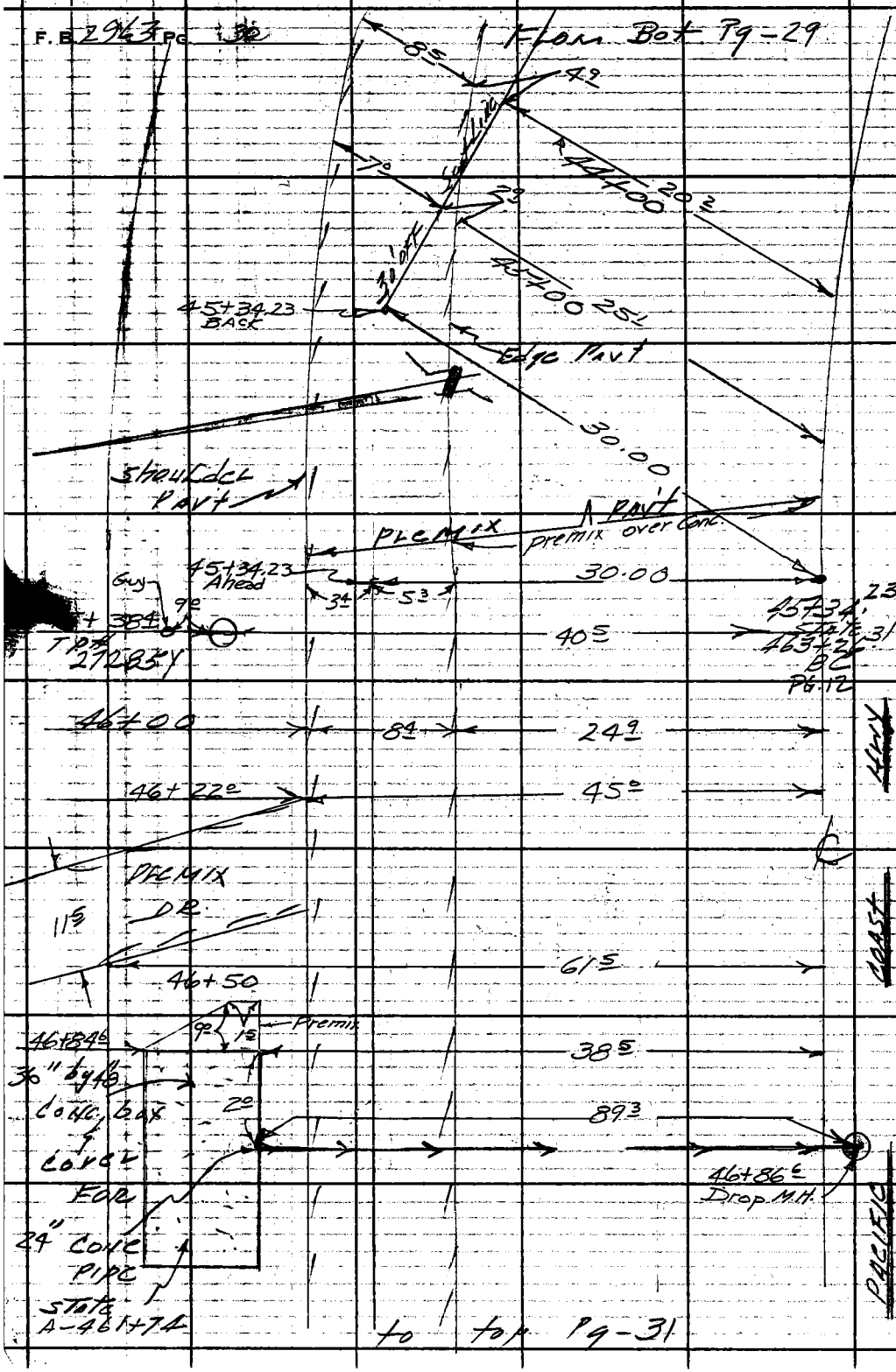
76F3095 CE # 310 4-61





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[redacted]NGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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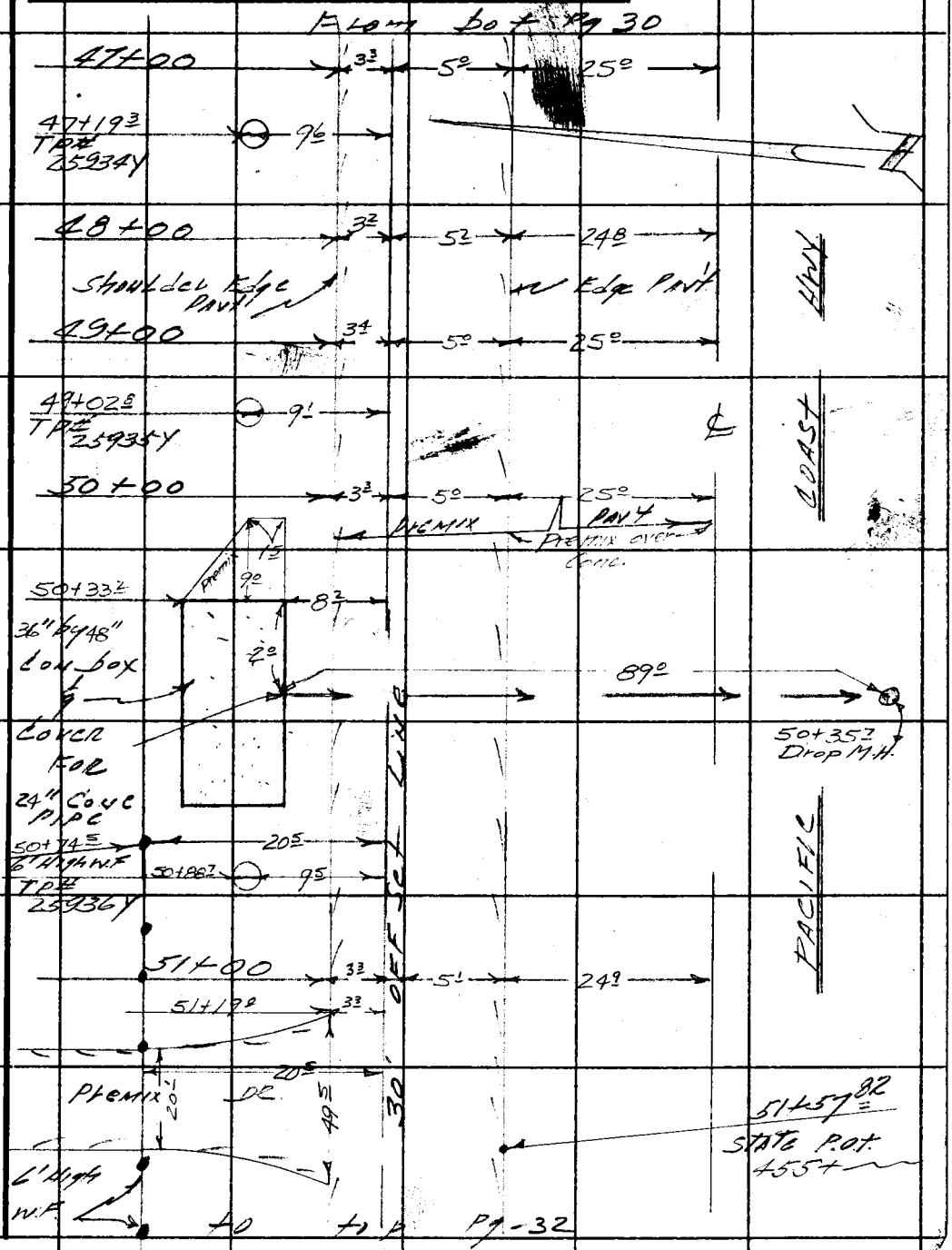
Notes Ck'd by	Survey of Water Main Align	F. B. 2963 PG. 31
Map No.	JN 529431 Tape Std °F	
Office Work	Surveyed by R. Bowers	
Checked	Notes LC Gault Date 6/62	
Date	Indexed H. E. OTT	



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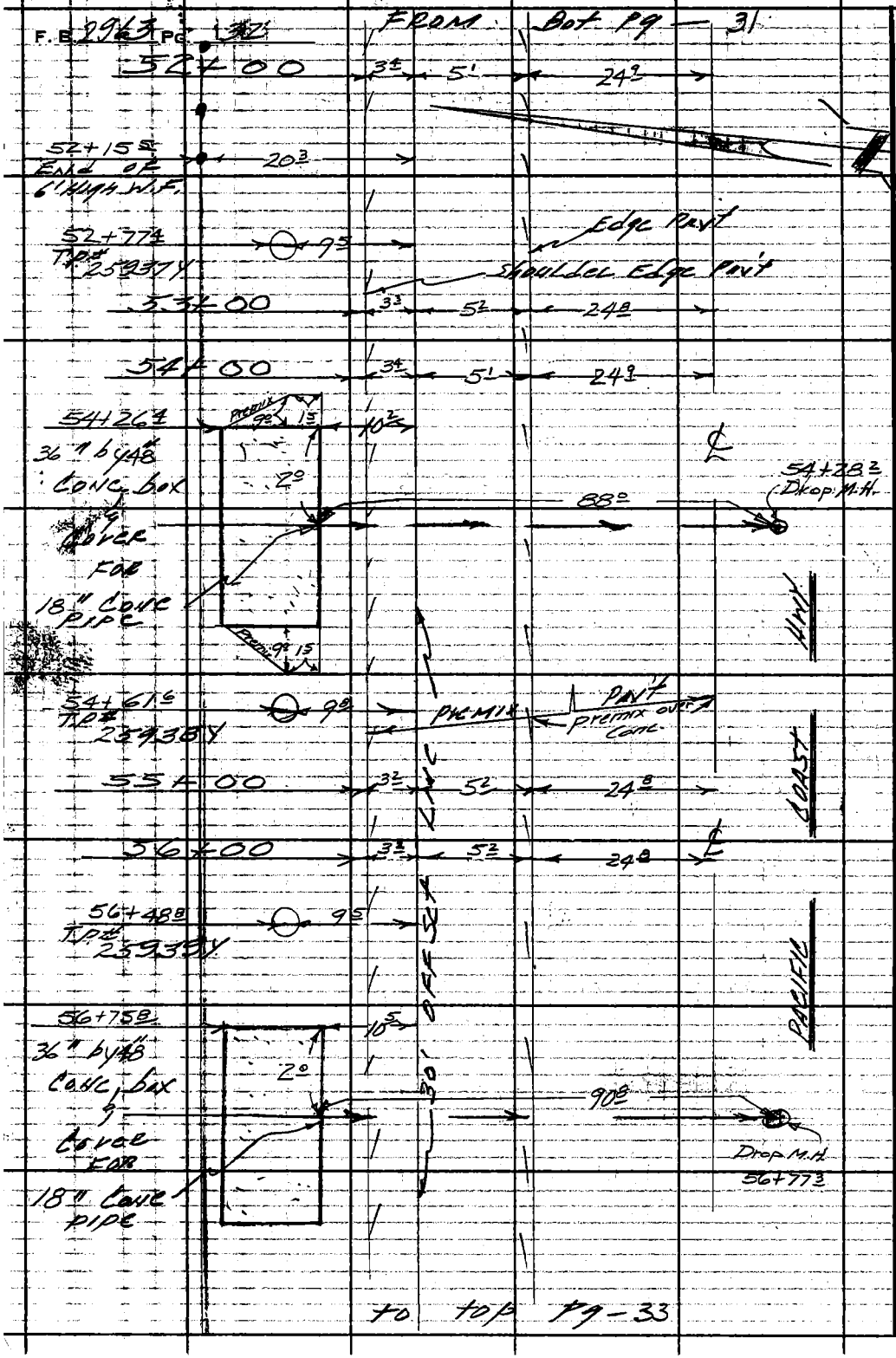
76F3095 CE # 310 3-61



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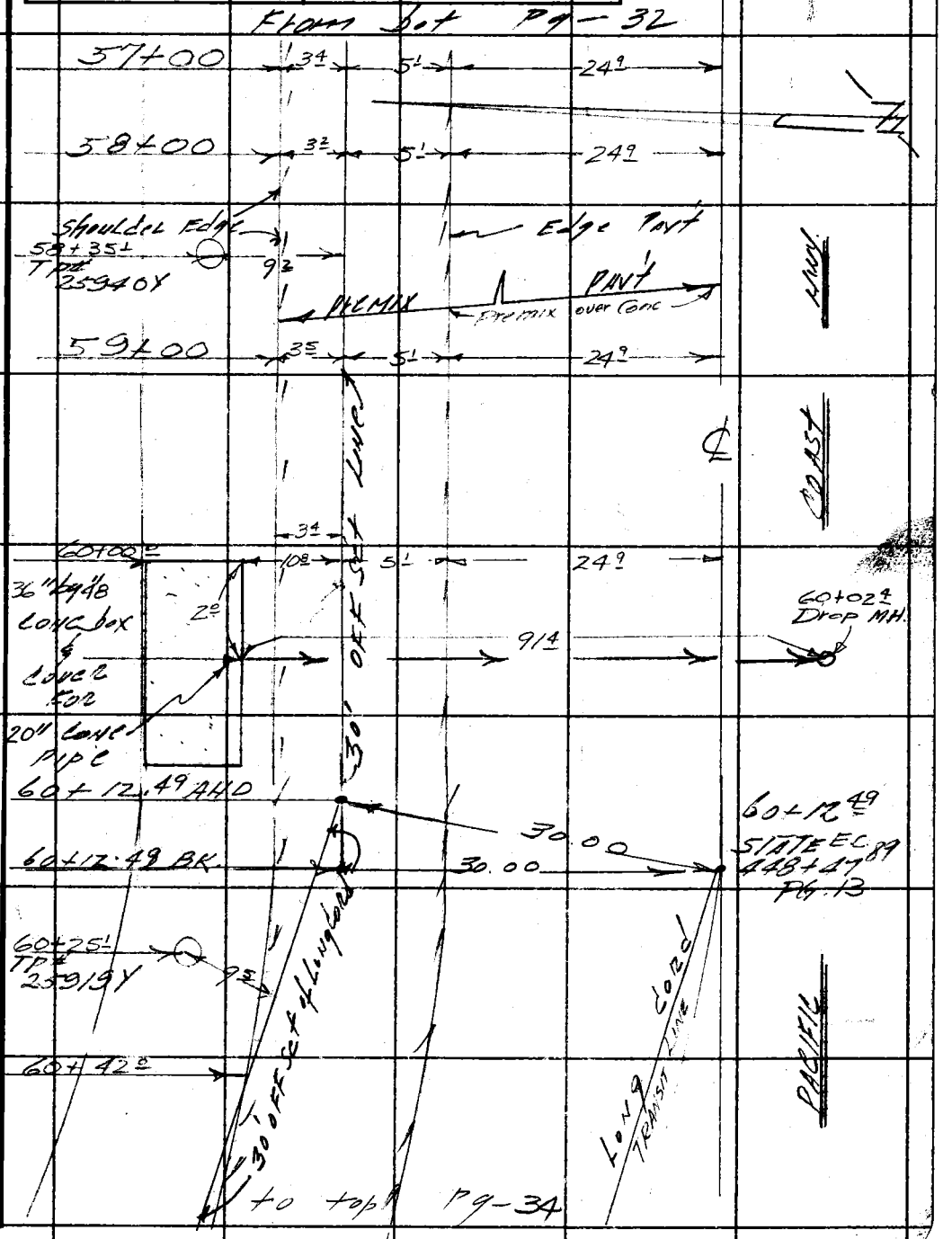
Note: [illegible] Conditions or Changes on This Sheet [illegible] Made or Circled in Red Ink [illegible] and Name of Person Making Change.

Notes Ck'd by	Survey of Water Main Align
Map No.	JN 52943 Tape Std °F
Office Work	Surveyed by R. Bowers
Checked	Notes LC Gault Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 3



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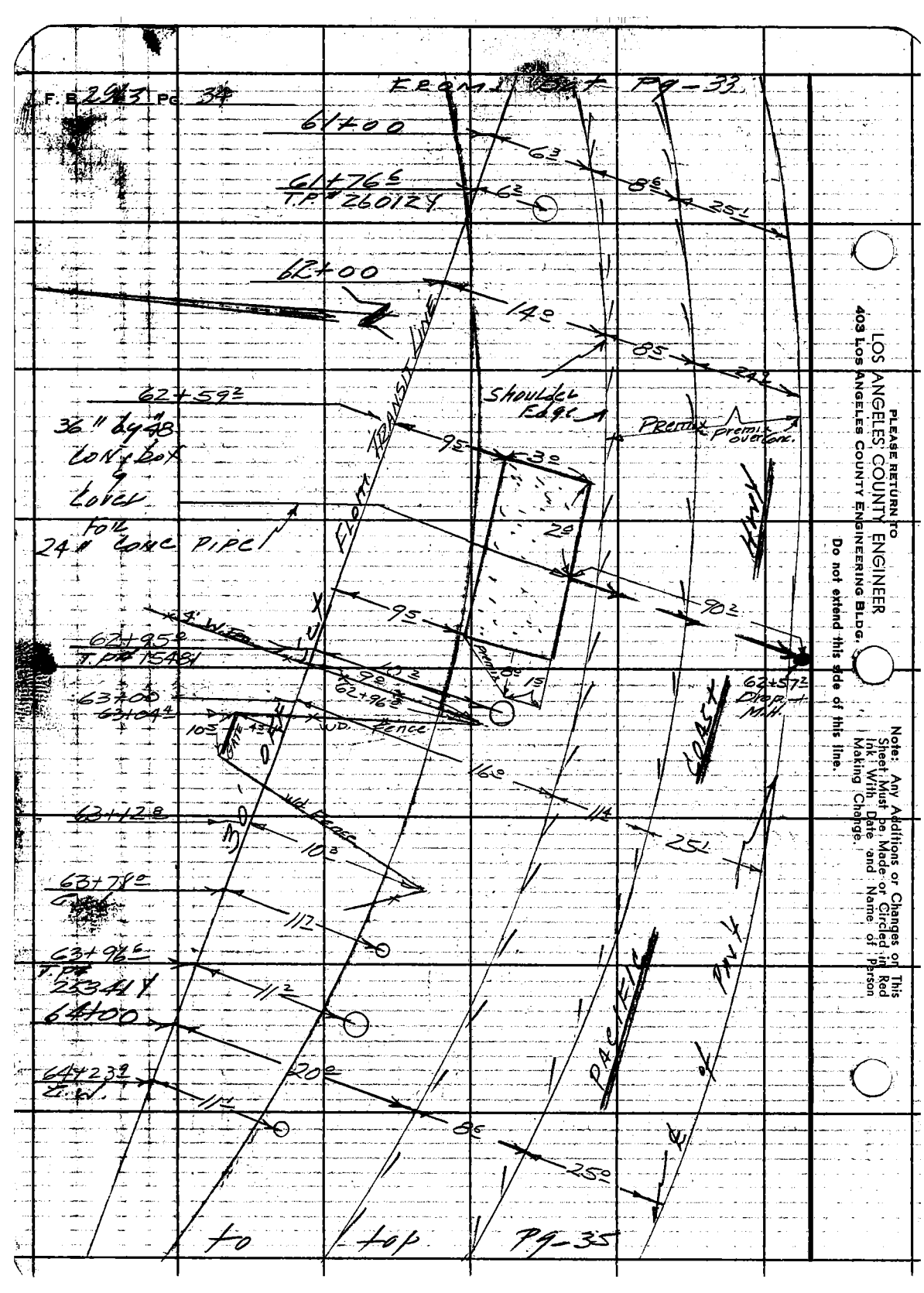
76F3095 CE # 310 3-61



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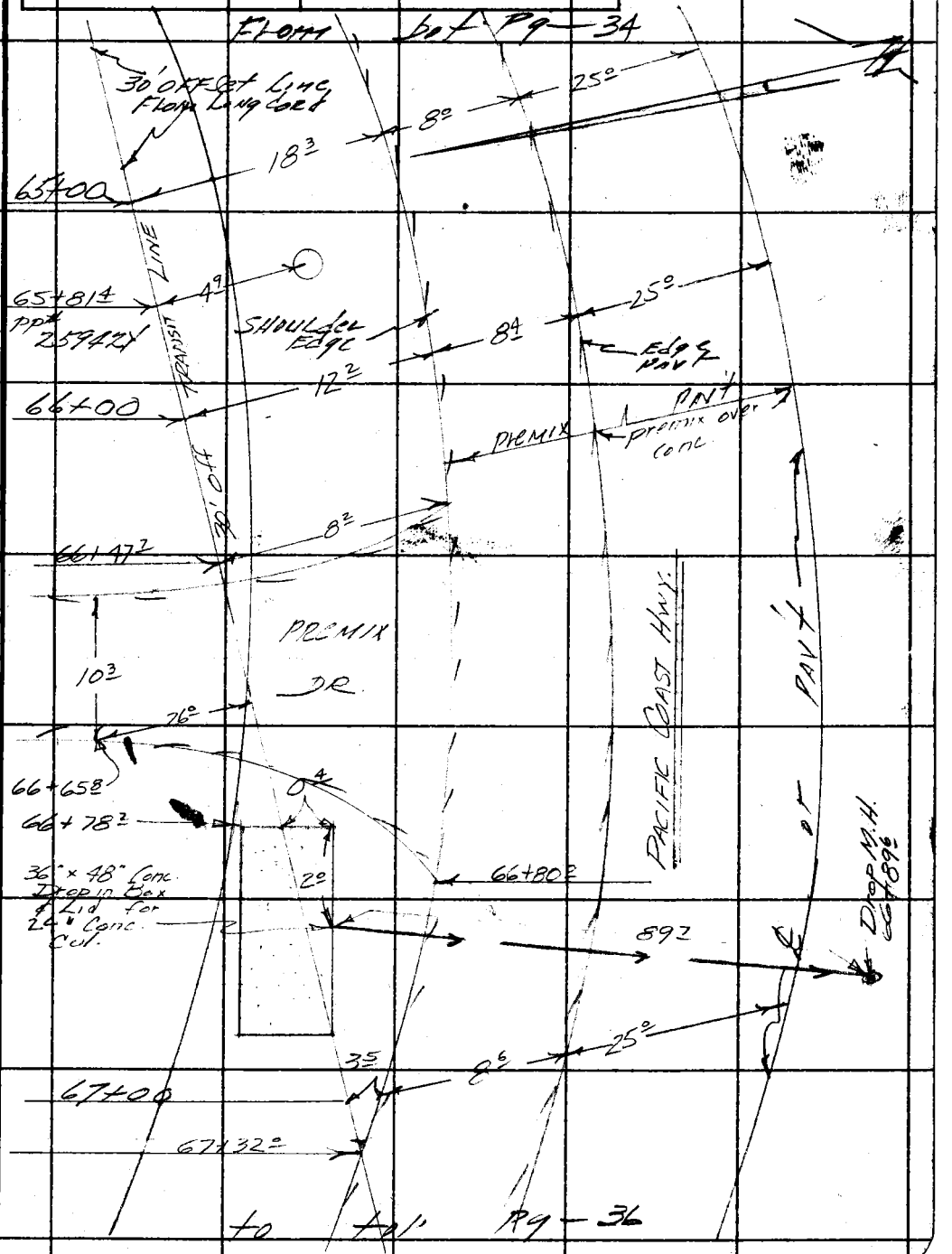
Notes Ck'd by	Survey of Water Main Align
Map No.	JN 529431 Tape Std °F
Office Work	Surveyed by R. Bowels
Checked	Notes Le Gault Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 PG. 35



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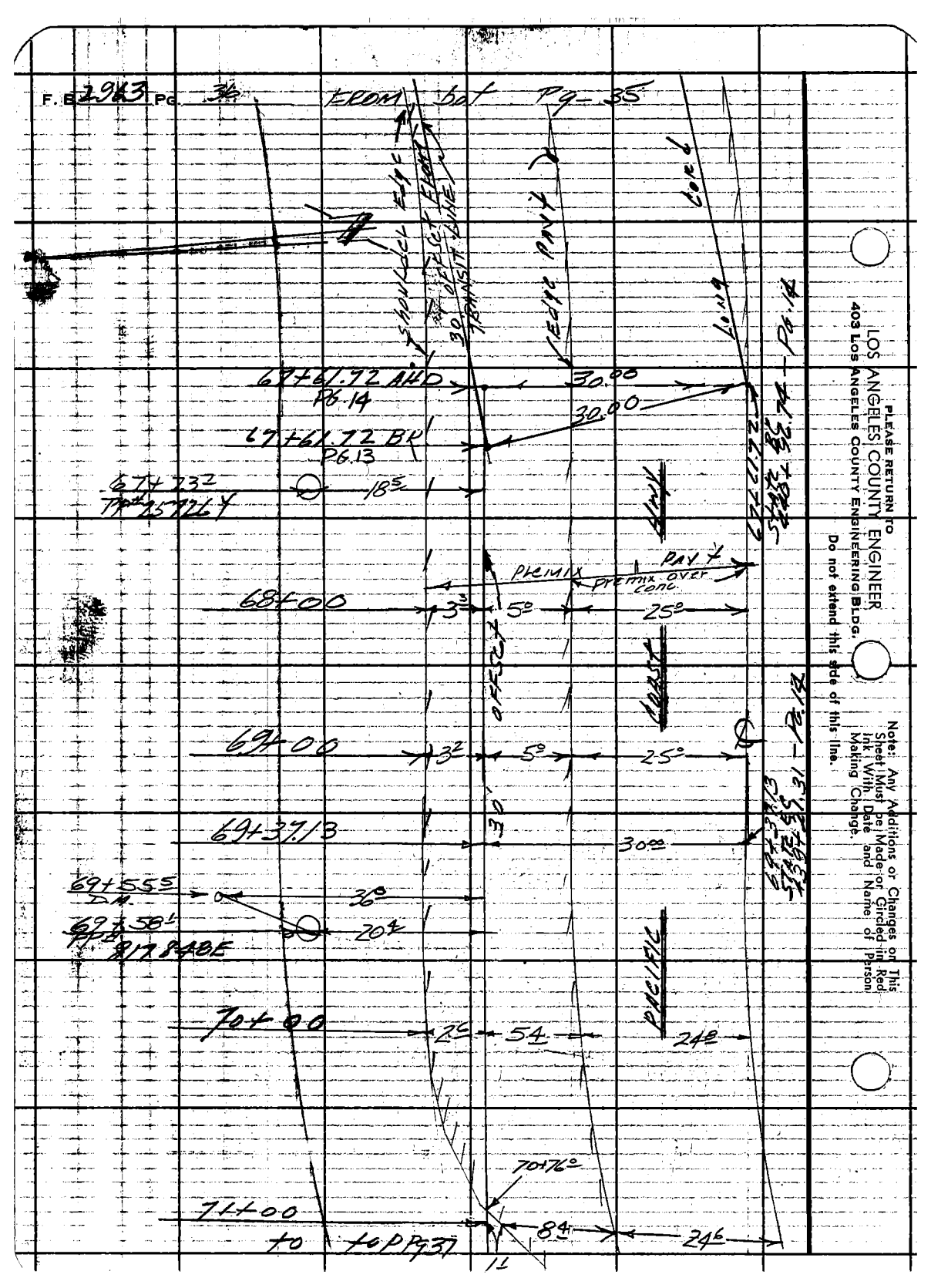
F. B. 2983 Pg. 34 FROM bal Pg. 35



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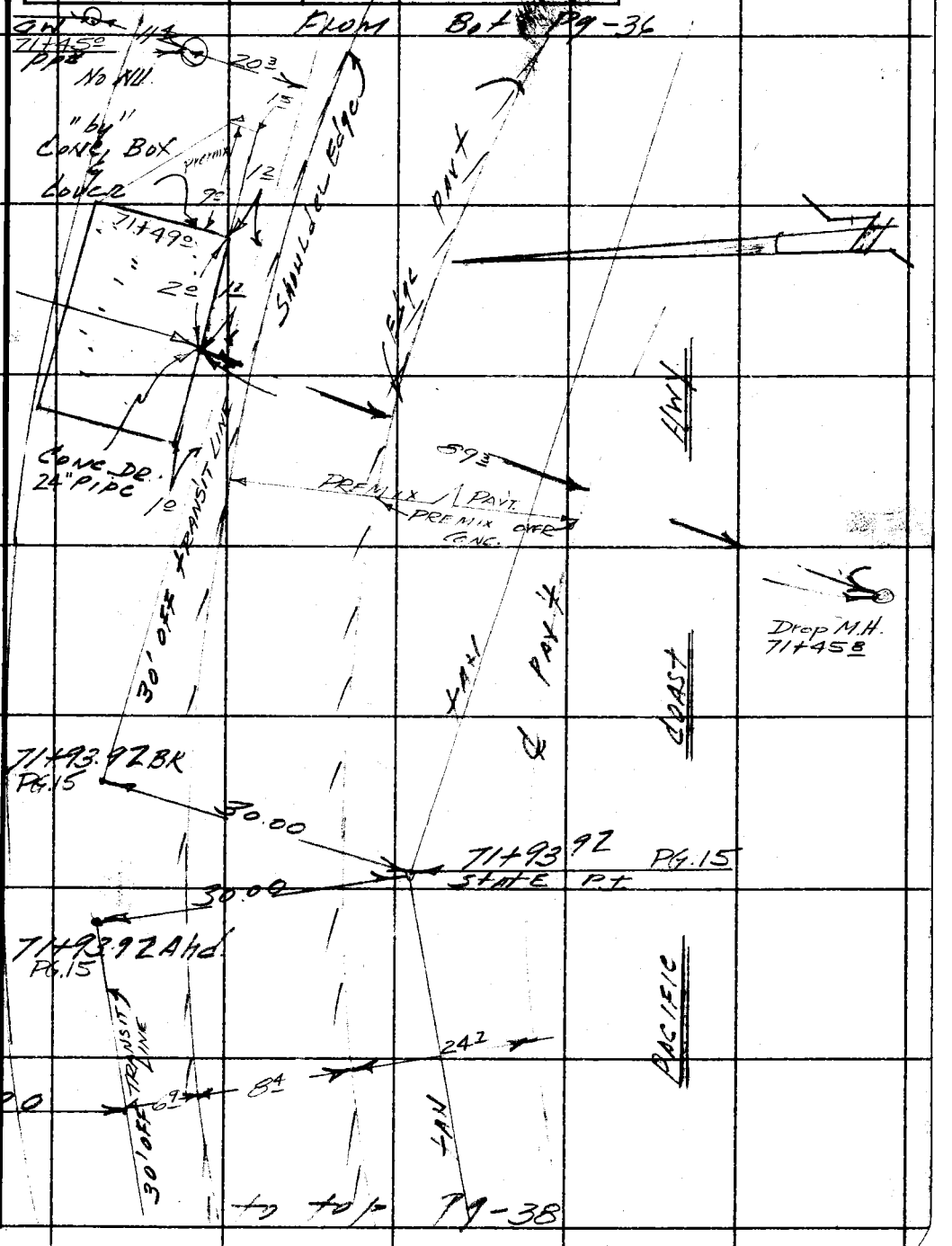
Notes Ck'd by	Survey of Water Main Align
Map No.	JN 52943 Tape Std
Office Work	Surveyed by R. Bower
Checked	Notes Lc Gault Date 6/62
Date	Indexed H. E. OTT

F. B. 2963 PG. 37



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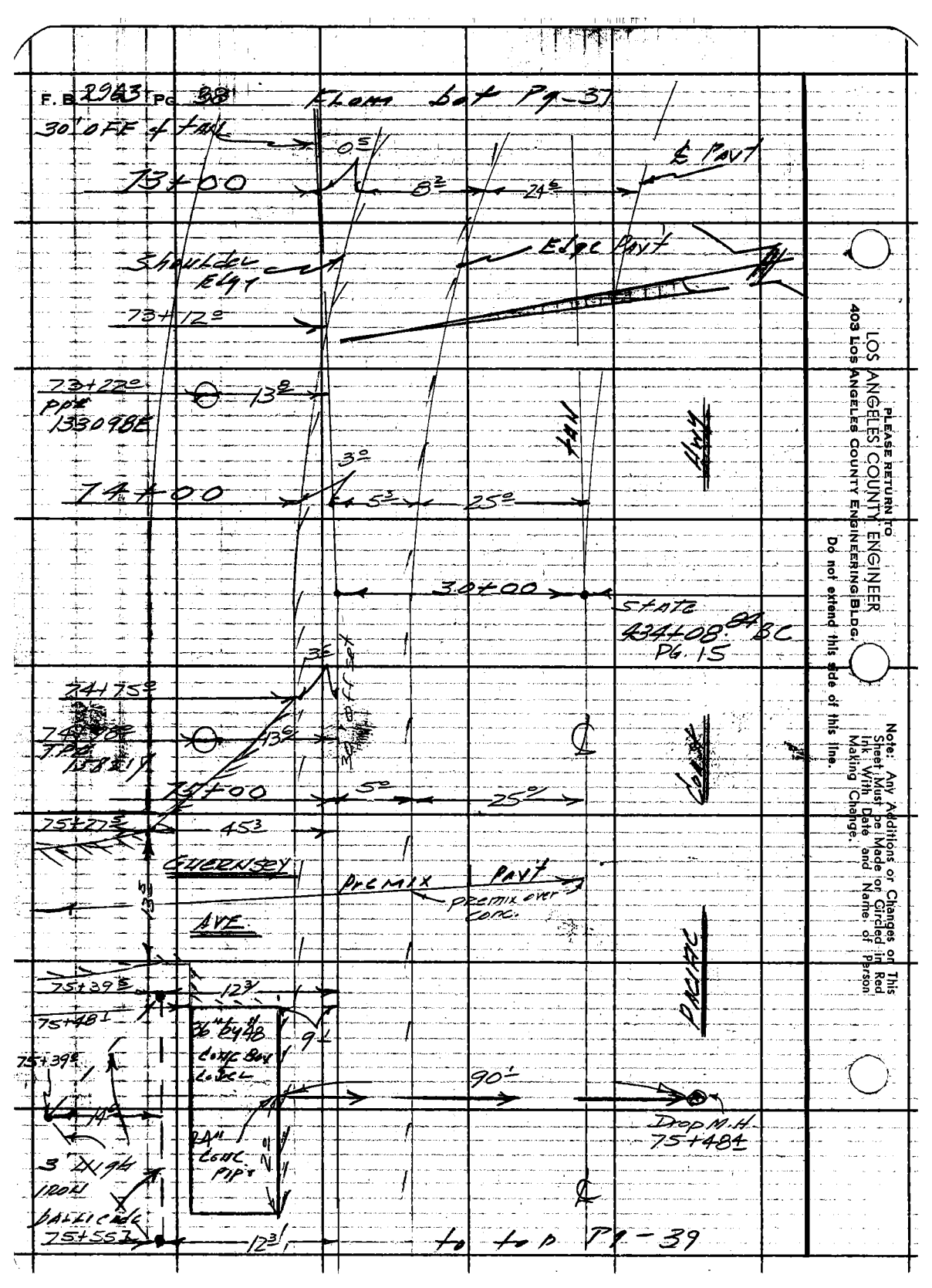
F.B. 2943 Pg. 38



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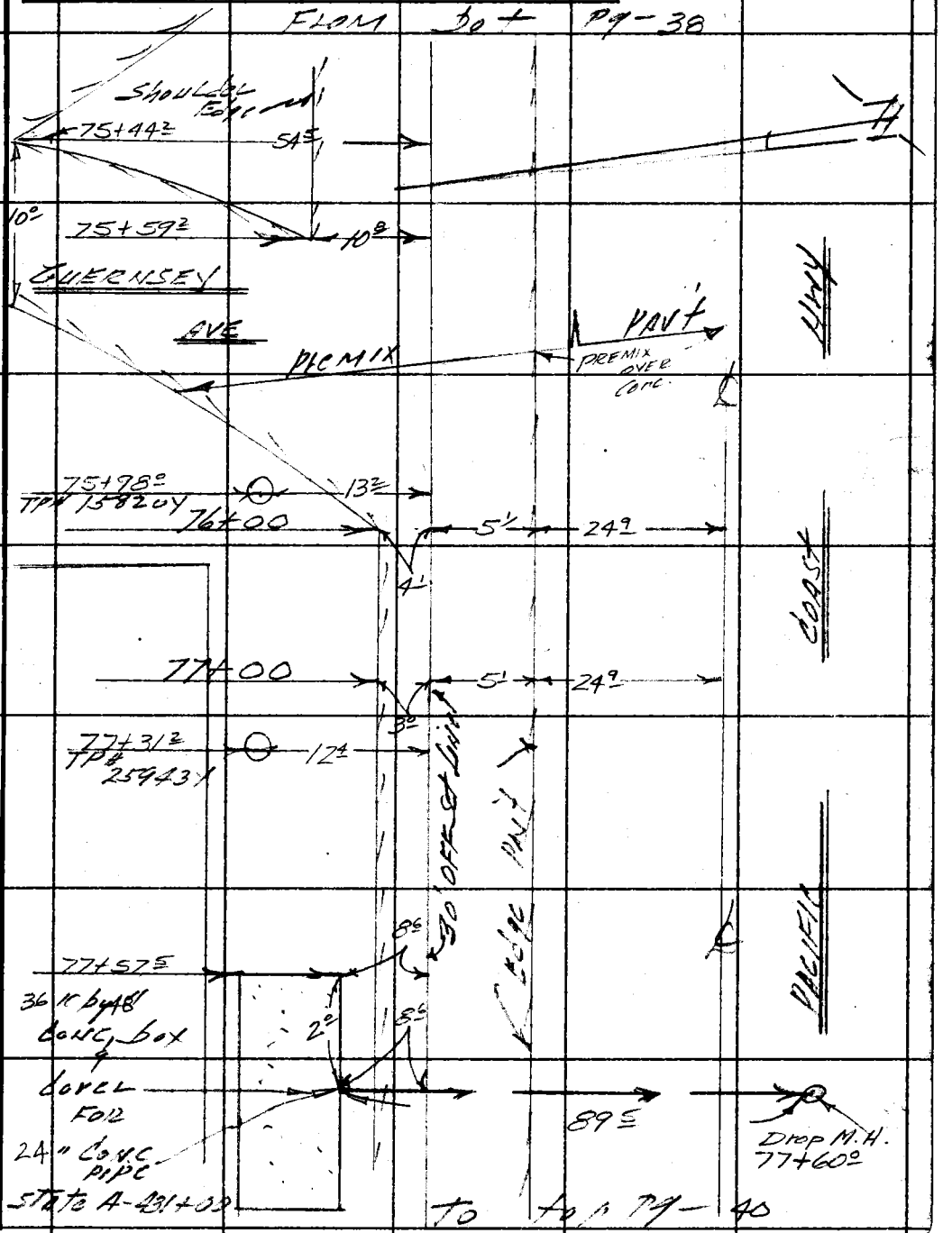
Notes Ck'd by	Survey of Water Main Align	F. B. 2963 Pg. 39
Map No.	JN 5294 Tape Std °F	
Office Work	Surveyed by R. Bowers	
Checked	Notes L.C. Gault Date 6/62	
Date	Indexed H. E. OTT	



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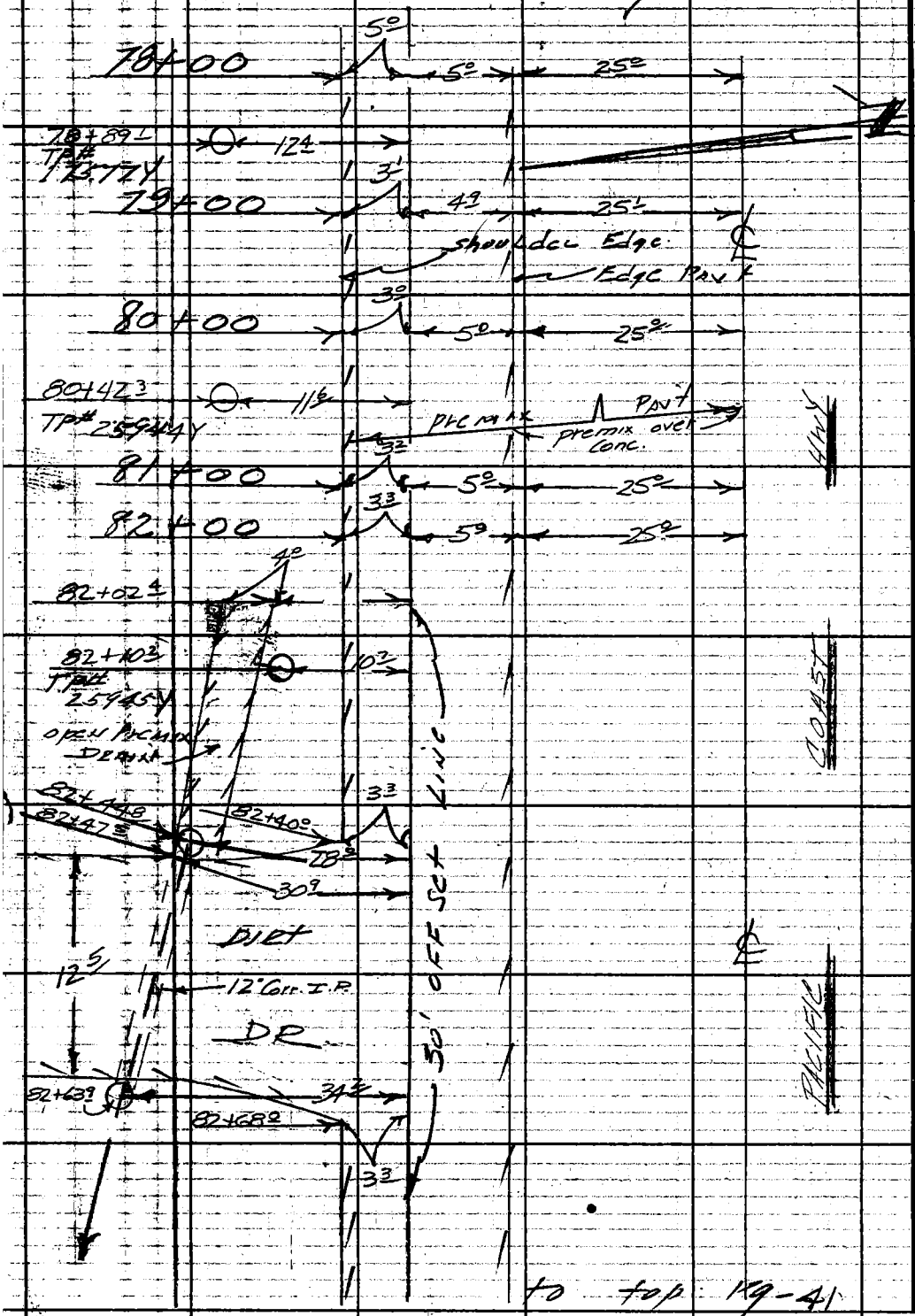
76F309S CE # 310 3-61

F. B. 2963 PG. 40

From bot Pg-39



to top Pg-41

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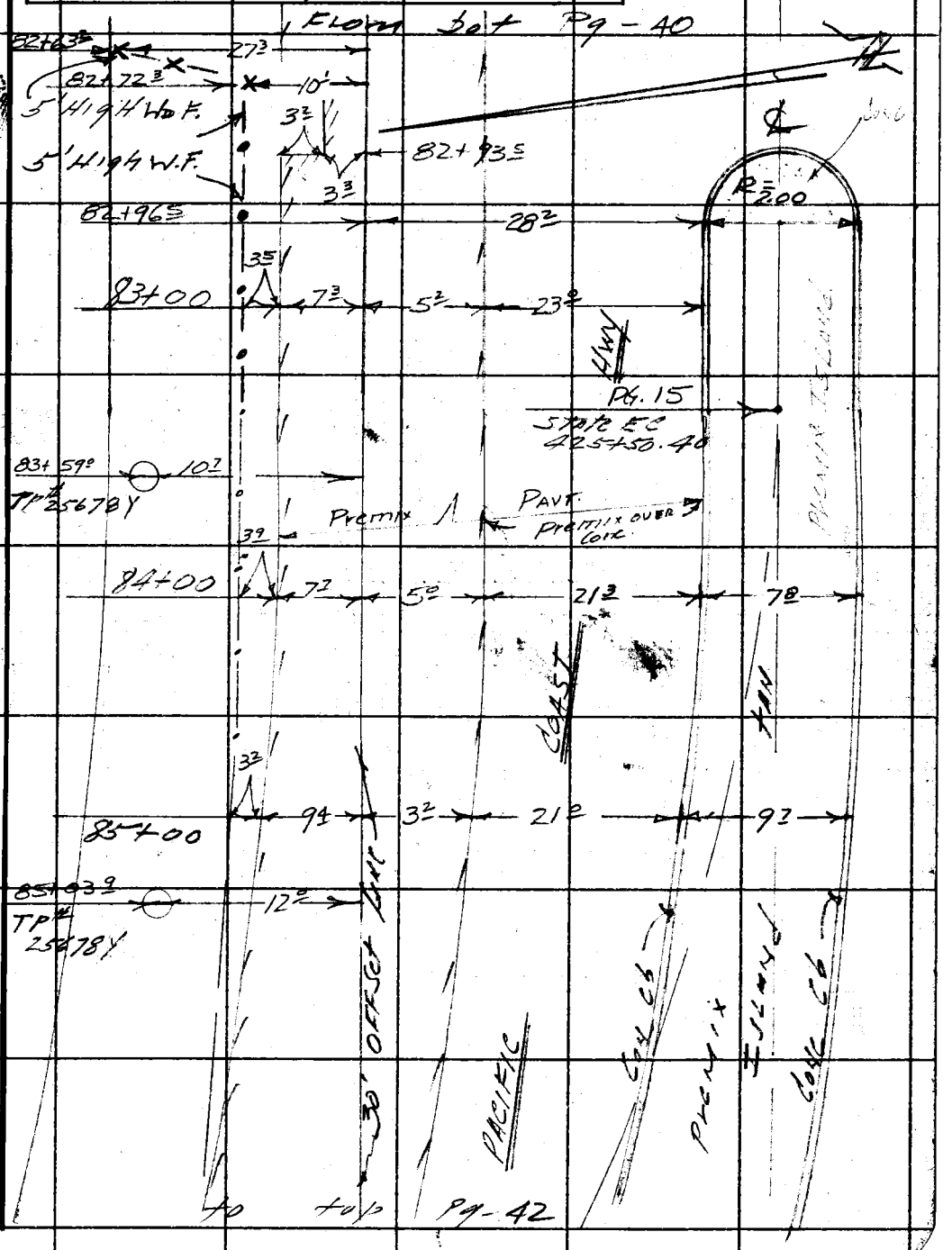
Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Wolf Main Align
JN 529431 Tape Std °F
Surveyed by R. Bowles
Notes LeGault Date 6/62
Indexed H. E. OTT

F. B. 2963 PG. 41



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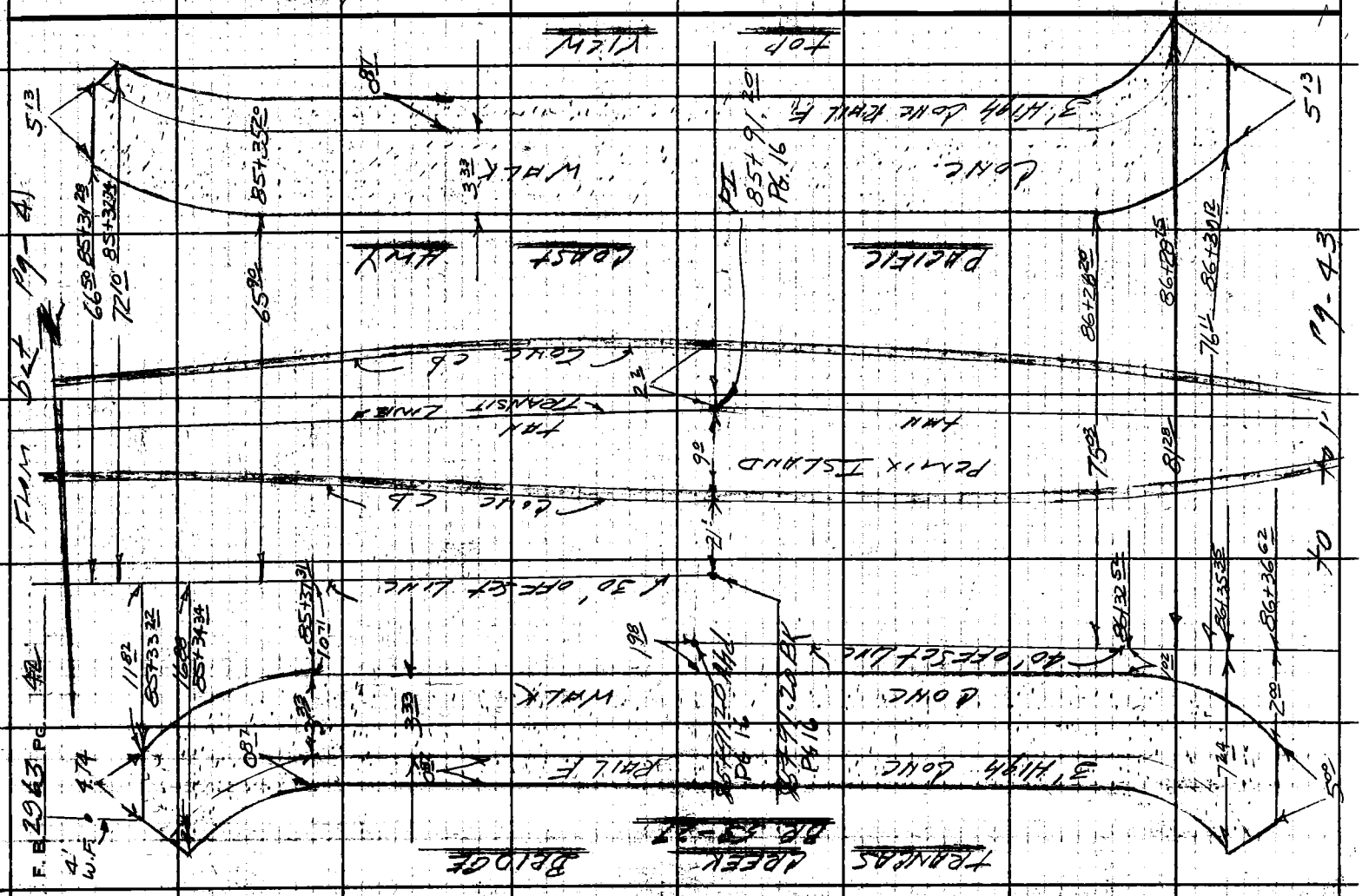
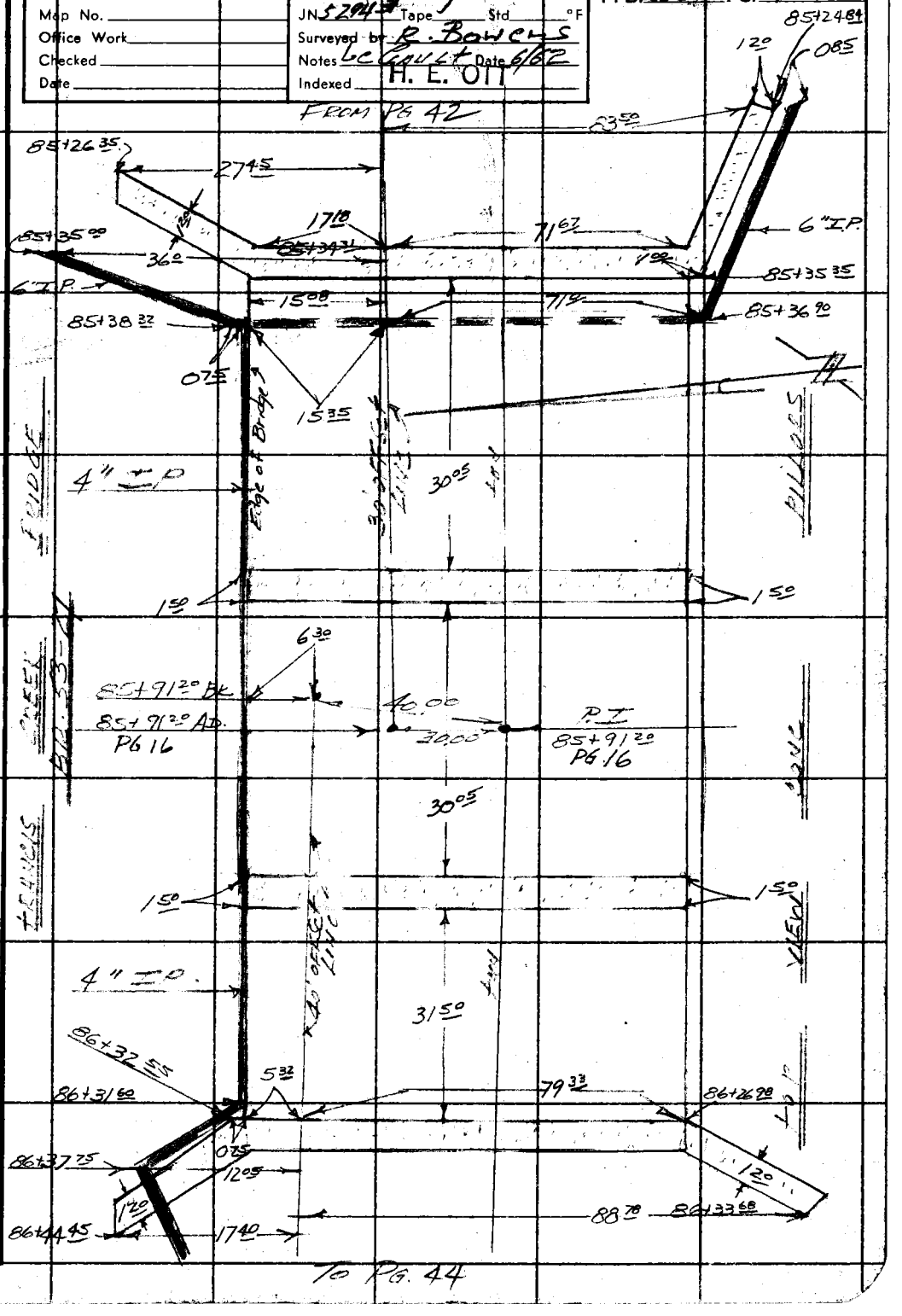


Notes Ck'd by	Survey of Water Main Align
Map No.	JN 5294 Tape Std °F
Office Work	Surveyed by R. Bowers
Checked	Notes Le Gault Date 6/62
Date	Indexed H. E. Ott

F. B. 2963 PG. 43



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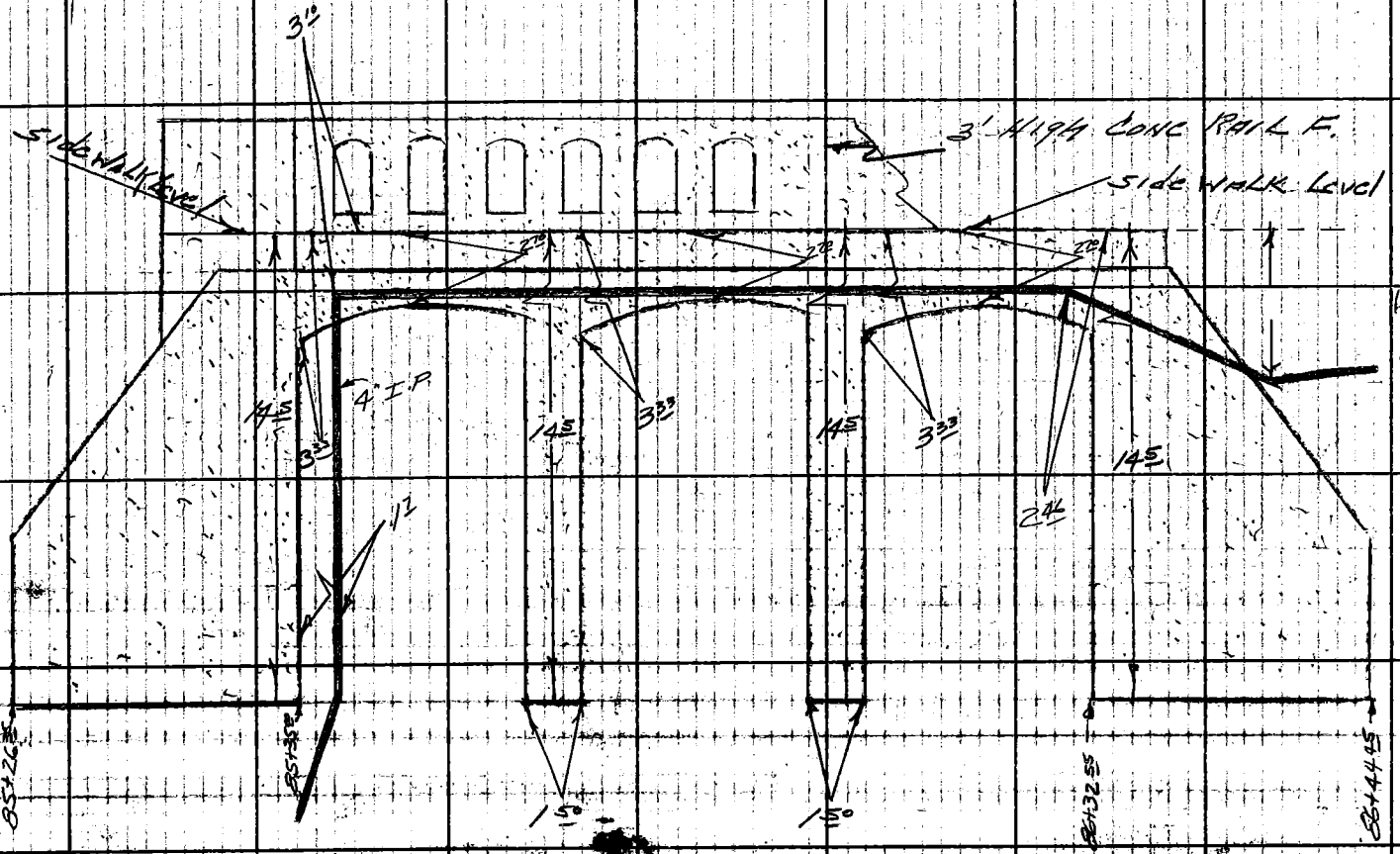
NORTH SIDE VIEW HANGAR CLEEK BRIDGE

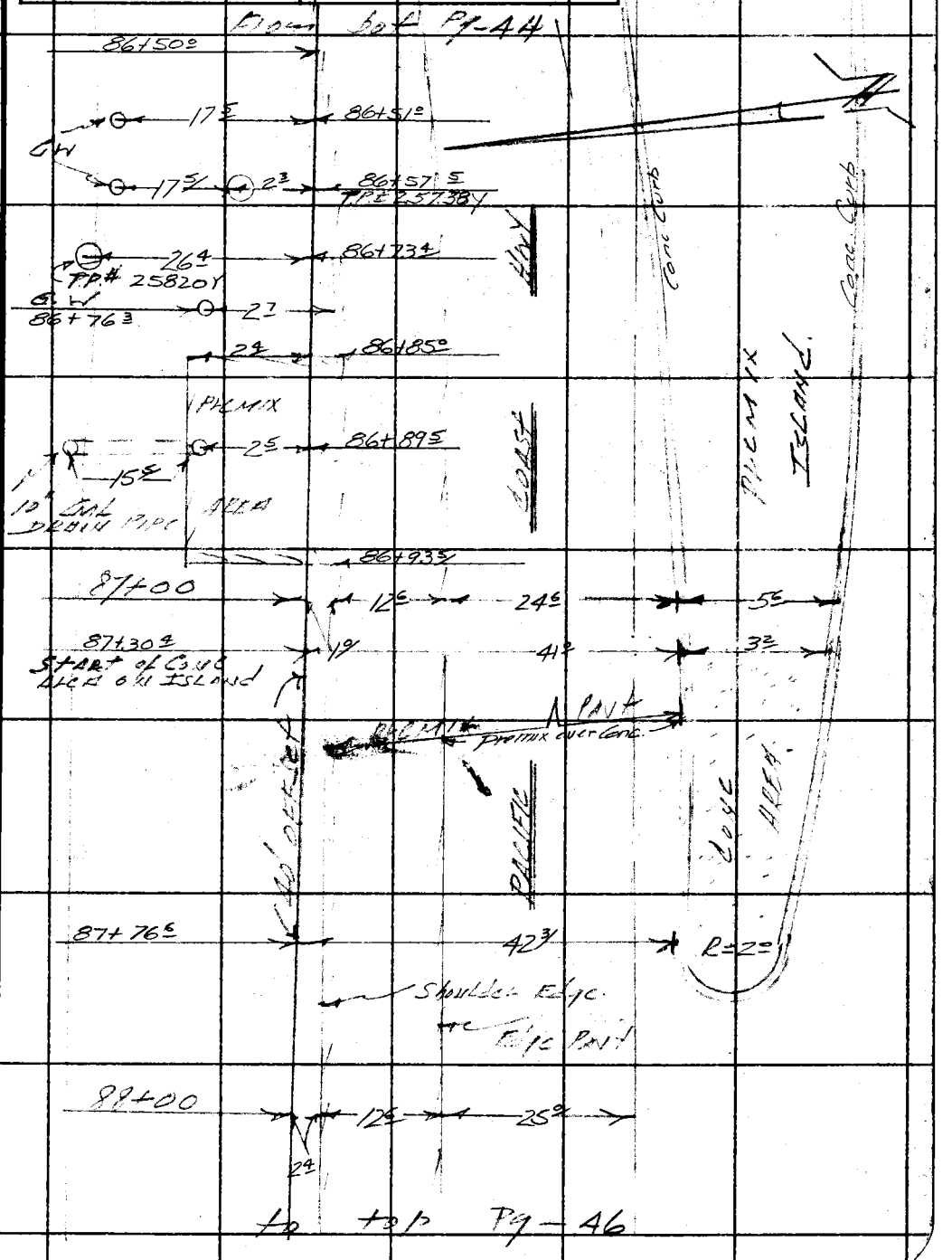
BO 53-27



Notes Ck'd by	Survey of Water Main Align
Map No.	JN 52943 Tape Std °F
Office Work	Surveyed by R. Bowles
Checked	Notes Le Gault Date 6/62
Date	Indexed

H. E. OTT

F. B. 3943 Pg. 45



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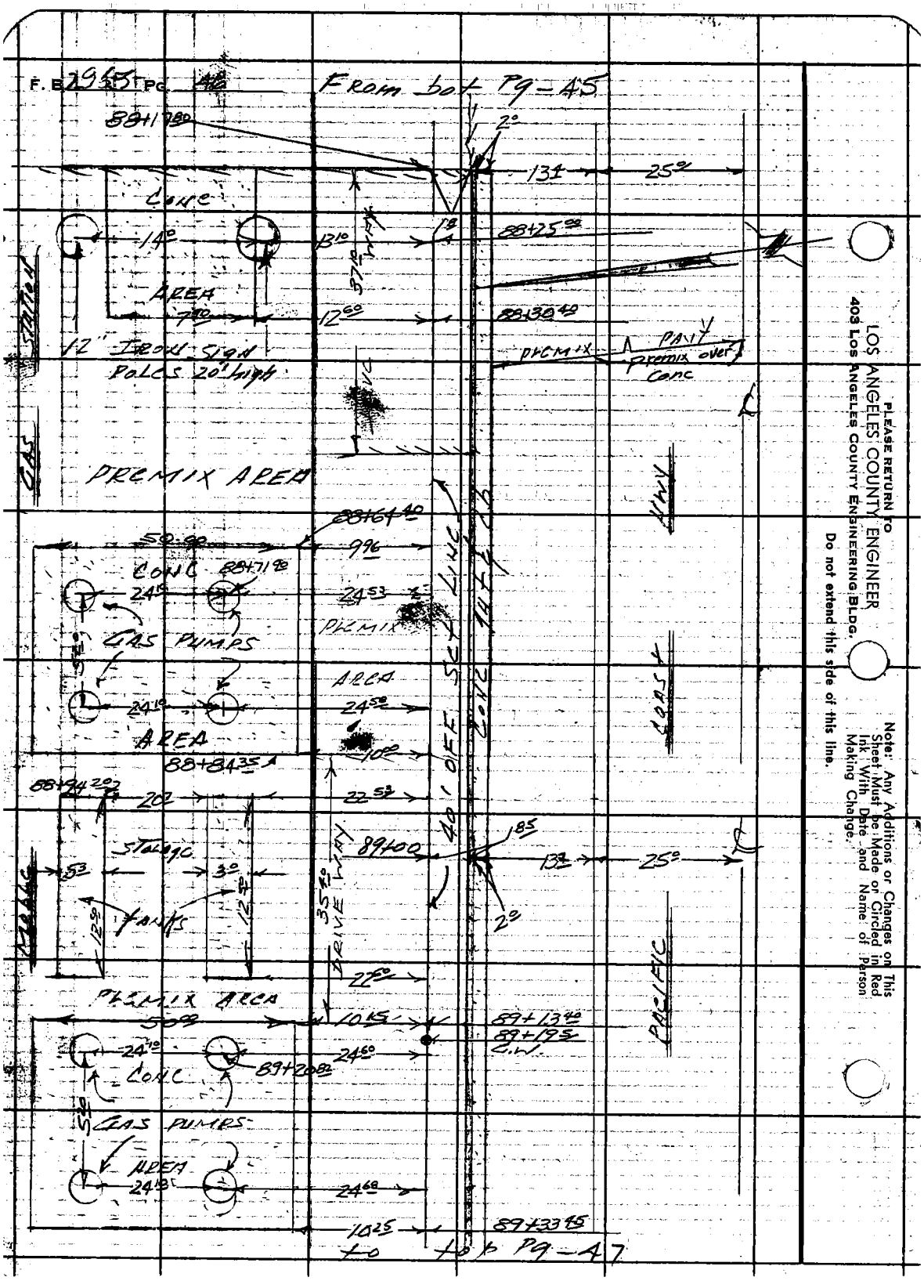

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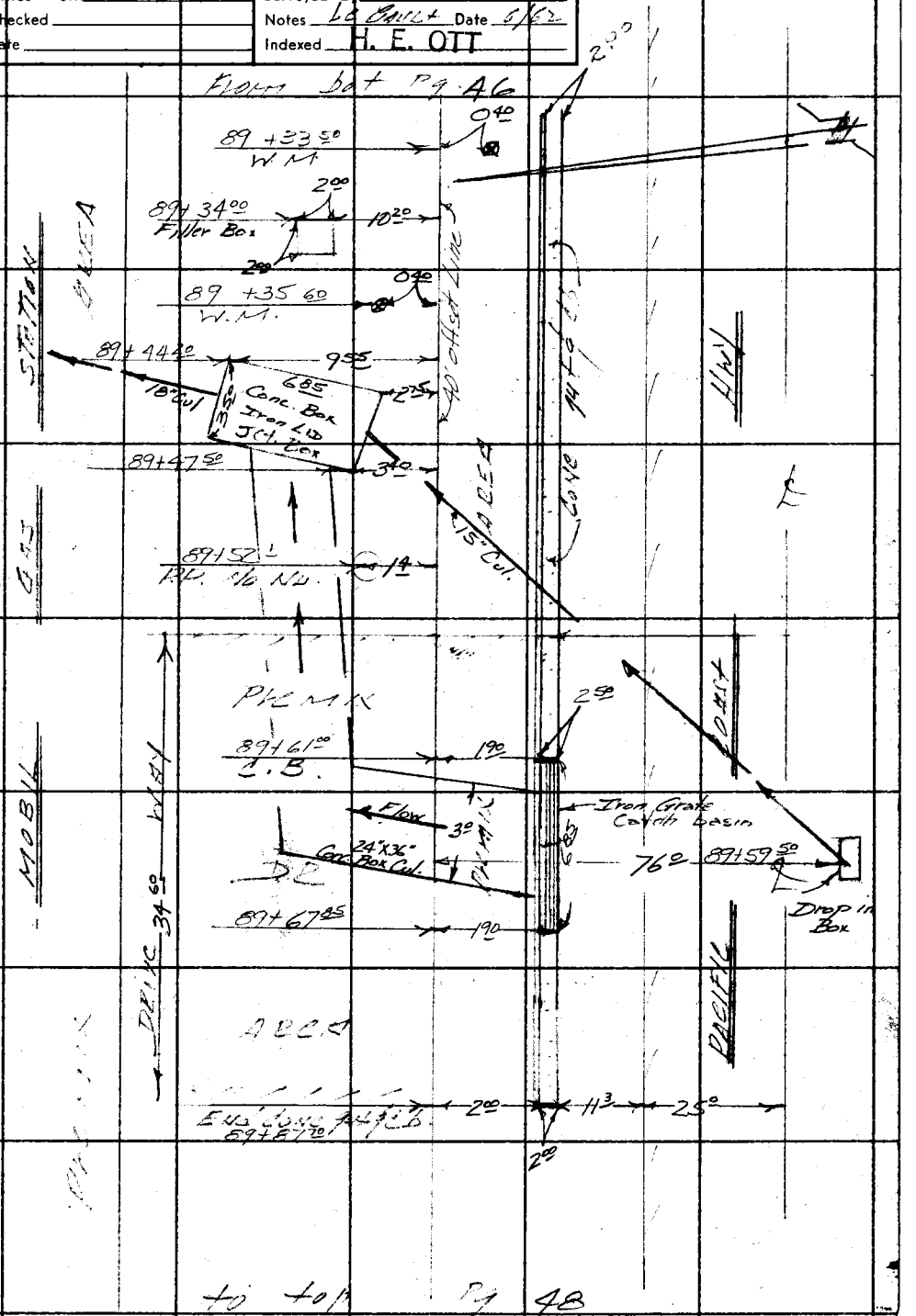
Notes Ck'd by	Survey of Water Main Align	F. B. 2963 PG. 47
Map No.	JN 3294 31 Tape Std °F	
Office Work	Surveyed by R. Bowers	
Checked	Notes Le Gault Date 6/62	
Date	Indexed H. E. OTT	



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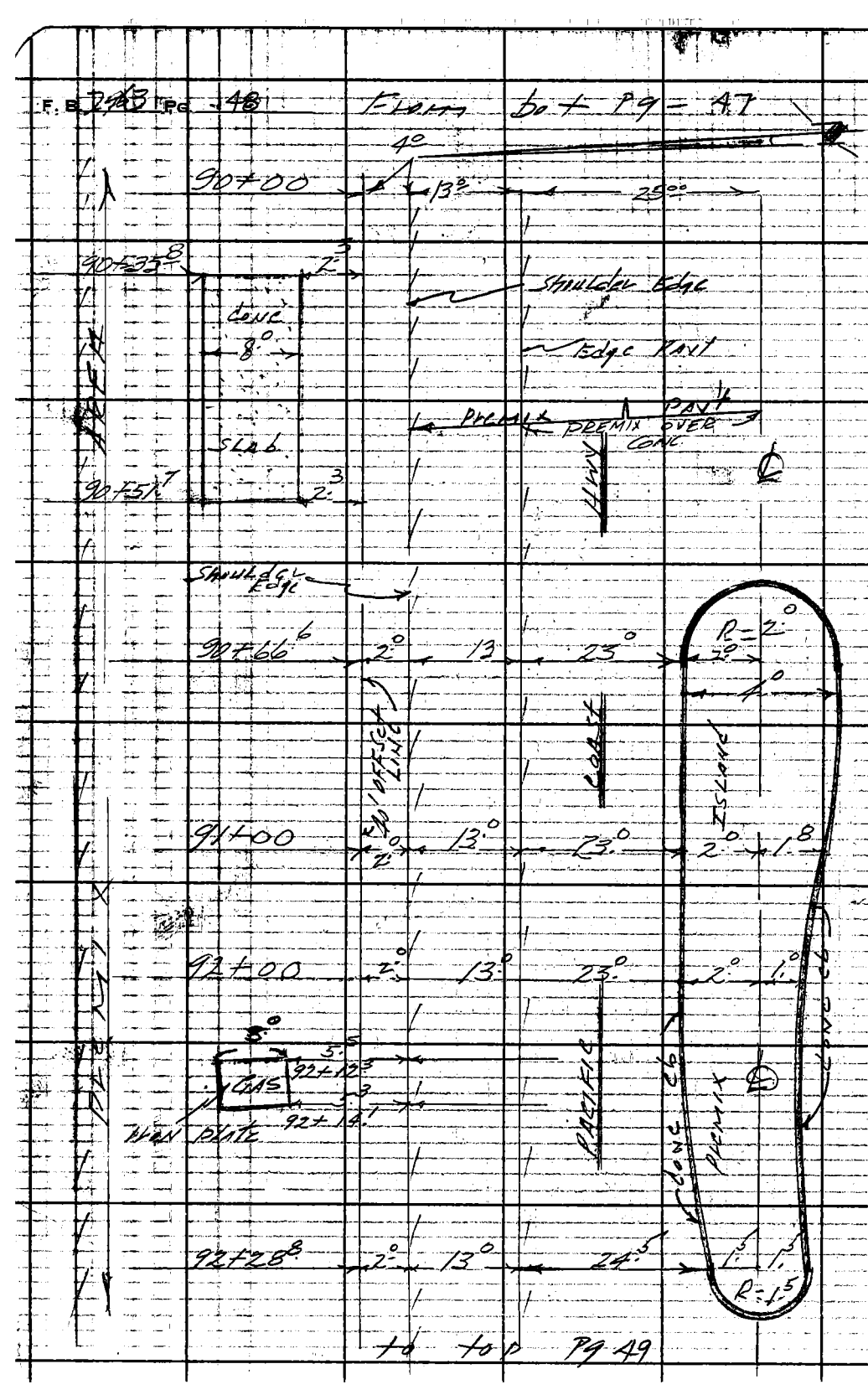
76F3095 CE # 310 3-61

F. B. 2943 Pg. 48

Floats

to + Pg = 47



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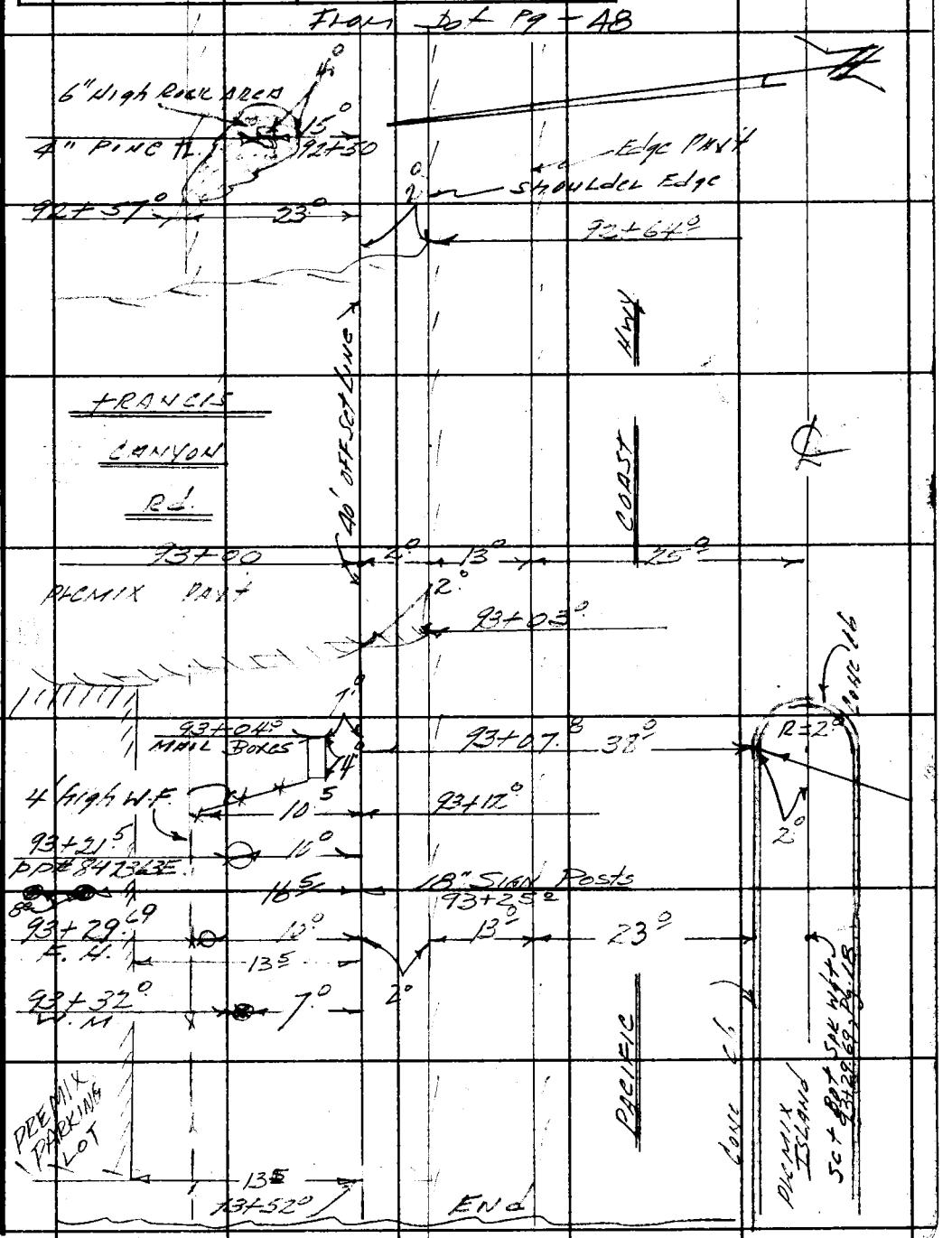
Notes Ck'd by	Survey of [illegible] MAIN ALIGN
Map No.	JN 52943 Temp Std °F
Office Work	Surveyed by R. Bow Lees
Checked	Notes Le Gault Date 6/62
Date	Indexed

F. B. 2963 PG. 49

H. E. OTT



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76F3095 CE # 310 3-61

Profile No. | Notes Red Date | Plotted Date | Job No. 5294-31 | Division No. 11 | F.B. 2963 | Pg. 51
X-Sec. No. | Notes Chkd. Date | Checked Date | Survey of Water Main Align. | Survey by R.C. Bowers | Notes R.C.B. | Date 6/62 | Map No. | Indexed H. E. OTT | Date JUL 12 '62

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY
WATER WORKS DIST. #29

FROM ZUMA BEACH ENT.

TO

TRANCAS CANYON RD.

J.N. 5294.31

NOTE:
All Elev. taken on Inverts of Culverts on The Left Side of Pacific Coast Hwy. are approx. due to being unable to open M.H. Covers. Elev. were taken by reading a tape droped in a hole using a light.

STATION	B.S.	H.I.	F.S.	ELEV.
			REF. F.B. 1369	

PARTY
BOWERS
LEGAULT
CROWDER
OHASHI

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76-L286 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. 48-127				23 06	B.M. 48-127 (Dume Point J-11A 1950) Pac. Coast Hwy., 0.35 Mi. West of Zuma Creek bridge; Hwy Sta ± 497+94.5, Approx 40.4' S. off ℄. Prelim Elev 1962 = 23.059 F.B. 1652-117	
0+00 to 19+23.01 on Transit Line					Lt.	Rt.
0+00				25 52		TL. & ℄ Pavt.
				25 17		25.0 Edge Pavt.
				24 67		37.5 " Shoulder
				25 4		40.5 Top Berm
1+00				24 91		TL.
				24 64		15.1 Edge Pavt.
				24 03		27.3 " Shoulder
				24 7		30.3 Top berm
				25 06	9.2 ℄ Pavt.	
1+67.3				24 54		TL.
				22 28		33.3 Top Hdwall
				18 97	(Approx. 1% Fall) →	Invert 30" Corr. I.P.
2+00				24 30		TL
				24 05		12.1 Edge Pavt

F.B. 2963 Pg 52
Job No. 59431 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by P.O. Bowers Notes D.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. Ott Date Date No.

76-L298 CE 307 3-61

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Profile Notes Rec'd Plotted Job No. 52443 Division No. 11
No. X-Sec. Date Date Survey of Water Main Alloy
No. Notes Ckd. Checked Survey by Reyes Notes PCB Date 6/62
Date Date Map No. Indexed H. E. OTT Date

F. B. 2963 Pg 53

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄	Rt.
2+00				23 46			16⁶ Edge Shoulder
				24 0			20± Top berm
				24 53	11± ℄ Pavt.		
3+00				23 91		℄	
				23 76			11⁸ Edge Pavt
				23 24			23± " Shoulder
				23 9			27± Top berm
				24 12	13± ℄ Pavt.		
1+00				23 66		℄	
				23 32			17± Edge Pavt.
				22 82			28³ " Shoulder
				23 6			33³ Top berm
				23 78	7± ℄ Pavt.		
1+80 74-T.P.				23 57		℄ ℄ Pavt.	
5+00				23 47		℄	
				23 08			22⁹ Edge Pavt.
				22 57			33⁹ " Shoulder
				23 2			37⁰ Top berm
				23 50	2⁰ ℄ Pavt.		
10+00				23 17		℄	
				22 88			14± Edge Pavt.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
6+00				22 28			25 2 Edge Shoulder
				22 9			28 7
				23 32	11 0 ℄ Pavt.		
7+00				22 91		TL	
				22 71			10 7 Edge Pavt.
				22 08			21 7 " Shoulder
				22 9			24 7 Top berm
				23 08	14 0 ℄ Pavt.		
7+14 3				22 88		TL	
				20 19			33 6 Top Hd. Wall
				17 39	(Approx 1% Fall) →		Invert 24" Corr I.P.
8+00				22 71		TL	
				22 48			12 3 Edge Pavt.
				21 93			33 6 " Shoulder
				22 4			37 1 Top berm
				22 93	12 6 ℄ Pavt.		
9+00				22 68		TL	
				22 34			18 6 Edge Pavt.
				21 90			27 0 " Shoulder
				22 7			31 5 Top berm
T.P.				22 79	6 3 ℄ Pavt		

F.B. 2963 PG. 54

Job No. 52943 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Water Main Align. Date ____ Date ____ No. ____

Survey by Bowers Notes Bowers Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed H.E.O.I. Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
9+61.43				22.67		TL	℄ ℄ Pavt.
10+00				22.53		TL	
				22.19			21.0 Edge Pavt.
				21.90			30.6 " Shoulder
				23.2			35.5 Top Berm
				22.58	4.0 ℄ Pavt.		
11+00				22.20		TL	
				22.05			13.0 Edge Pavt.
				21.62			21.6 " Shoulder
				21.5			24.5 F.L.
				23.8			30.1 Bot Cut
				22.38	11.8 ℄ Pavt.		
12+00				22.00		TL	
				21.83			10.4 Edge Pavt.
				21.38			18.7 " Shoulder
				21.2			21.7 F.L.
				22.8			26.2 Bot Cut
				22.20	14.6 ℄ Pavt.		
13+00				21.85		TL	
				21.64			13.0 Edge Pavt.
				21.17			21.6 " Shoulder

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 Pg. 55
X-Sec. No. ____ Date ____ Date ____ Survey of Water Main Align
Notes Chkd. ____ Checked ____ Survey by Bowers Notes RCB Date 6/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	TL	Rt.
13+00				21 0			23 6 F.L.
				23 8			29 5 Bot Cut
				22 00	12 0 ℄ Pavt.		
14+00				21 76		TL	
				21 41			20 4 Edge Pavt.
				20 93			28 8 " Shoulder
				20 8			30 8 F.L.
				23 3			38 3 Bot. Cut
				21 80	4 6 ℄ Pavt.		
14+42 19 = TP				21 77		TL & ℄ Pavt.	
15+00				21 56		TL	
				21 26			18 8 Edge Pavt.
				20 85			27 3 " Shoulder
				20 5			34 0 F.L. & Bot. Cut
				21 63	5 8 ℄ Pavt.		
16+00				21 27		TL	
				21 05			12 9 Edge Pavt.
				20 65			21 4 " Shoulder
				19 8			23 4 F.L.
				20 6			41 9 Bot bank
				21 46	12 6 ℄ Pavt.		

F.B. 2963 Pg. 56

Job No. 5294.31 Division No. 11 Notes Red Plotted Profile

Survey of Water Main Align. Date Date No.

Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.

Indexed H. E. Ott Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
16+12.4				18.86	63.2 Top Drop M.H.		
				16.31	Invert 24" Corr. I.P.		
16+15.0				21.25		TL	
				20.5			25.0 Ground
				21.45			25.3 Top Catch Basin
				17.53			" Invert 24" Corr. I.P.
17+00				21.07		TL	
				20.87			10.8 Edge Pavt.
				20.55			18.8 " Shoulder
				20.4			24.0 F.L.
				21.3			34.0 Bot Cut
T.P.				21.20	14.2 ℄ Pavt.		
B.M. 48-128				20.09	B.M. 48-128 (Dume Pt. J-10, 1950)		
					Pac. Coast Hwy., 0.5 Mi. S.W. of Zuma Creek Bridge		
					at Hwy. Sta. 491+61.6 ±, 230' E. of BC, 42.7 ft.		
					S. of Approx ℄ A Std. Co. Sur. Control Traverse Sta.		
B.M. 48-128				20.12	Elev. = 20.124, F.B. 1369-108		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.31 Division No. 11 F.B. 2963 Pg. 57
X-Sec. No. ____ Date ____ Date ____ Survey of Water Main Align.
Notes Chkd. ____ Checked ____ Survey by Bowers Notes RCB Date 6/62
Date ____ Date ____ Map No. ____ Indexed H. E. OH Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	Left	KL Right
18+00				2091		KL
				2071		14.0 Edge Pav't
				2040		22.6 " Shoulder
				200		28.5 F.L.
				208		37.0 Bot Cut
				2102	10.9 ℄ Pav't	
19+00				2074		KL
				2038		22.2 Edge Pavt
				1971		32.7 " Shoulder
				194		39.2 F.L.
				207		47.2 Bot Cut
				2074	2.6 ℄ Pav't	
483+38.32 State BC						
19+23.01	(19+23.01 to 40+30.38 on ℄)			2063		KL & ℄ Pavt
				2028		24.8 Edge Pavt
				1942		35.6 " Shoulder
				193		39.6 F.L.
				202		48.6 Bot Cut
20+00				2014		℄ Pavt
				1980		24.8 Edge Pavt

F.B. 2963 Pg. Job No. 294.31 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. Ch. Date Date No.

76-L298 CE 307 3-61

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Profile Notes Red. Plotted
No. Date Date
X-Sec. Notes Ckkd. Checked
No. Date Date
Job No. 5243 Division No. 11
Survey of Water Main Alignment
Survey by Bowers Notes PCB Date 6/62
Map No. Indexed H. E. OTT Date
F. B. 2963 Pg. 58

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	℄	Rt
20+00				19 04		39 8	Edge Shoulder
				18 9		41 3	F.L.
				20 0		51 3	Bot. Cut
21+00=T.P.				19 31		℄ Pavt	
				19 04		24 8	Edge Pavt.
				18 12		40 8	" Shoulder
				18 0		42 3	F.L.
				19 0		50 3	Bot. Cut.
22+00				18 59		℄ Pavt	
				18 30		24 8	Edge Pavt
				17 48		40 8	" Shoulder
				17 3		41 8	F.L.
				18 0		55 5	Bot Cut.
23+00				17 82		℄ Pavt	
				17 54		24 8	Edge Pavt
				16 89		36 3	" Shoulder
				16 7		40 8	F.L.
				16 6		52 2	Bot Cut
24+00=T.P.				17 33		℄ Pavt.	
				17 15		24 8	Edge Pavt
				16 67		36 3	" Shoulder F.L.

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄ Rt.
24+00				17^{6}		39^{8} Top berm
24+79.0				14^{24}	50^{4} Drop M.H., Top	
				11^{51}	" Invert	
24+81.2				16^{2}		38^{0} Ground
				16^{68}		38^{4} Top Catch Basin
				12^{89}		" Invert 24" Conc. Pip
25+00				17^{30}		℄ Pavt
				17^{01}		24^{8} Edge Pavt
				16^{60}		33^{3} " Shoulder
				16^{3}		37^{5} F.L.
				17^{1}		39^{3} Top berm
26+00				17^{55}		℄ Pavt.
				17^{34}		24^{8} Edge Pavt
				16^{88}		35^{3} " Shoulder
				16^{9}		36^{8} F.L.
				17^{6}		38^{3} Top berm
27+00 J.P.				18^{15}		℄ Pavt.
				17^{86}		24^{8} Edge Pavt
				17^{28}		34^{2} " Shoulder
				17^{3}		36^{2} F.L.
				18^{2}		38^{0} Top berm

F.B. 2963 Pg. 60
Job No. 5294-31 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align Date Date No.
Survey by Bowers Notes RCB Notes Chkd. Checked X-Sec.
Indexed H E DM Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	℄ Rt.
27+42.4				16.94		45.6 Top Hd. wall
				12.62		" Invert 72"x37" Conc. Box Cul.
7+42.1				14.76	81.1 Top Hd. Wall	
				09.66	" Invert 72"x37" Conc. Box Cul.	
8+00				18.46		℄ Pavt.
				18.23		24.8 Edge Pavt
				17.65		35.3 " Shoulder
				17.5		36.3 F.L.
				18.5		42.0 Top berm
9+00				18.17		℄ Pavt.
				18.05		24.8 Edge Pavt.
				17.41		34.0 " Shoulder=F.L.
				18.0		39.0 Top berm
0+00=T.P.				17.85		℄ Pavt.
				17.57		24.8 Edge Pavt.
				17.30		32.8 " Shoulder
				17.2		F.L.
				18.6		Top berm
1+00				17.40		℄ Pavt.
				17.14		24.8 Edge Pavt.
				16.81		34.3 " Shoulder=F.L.

Profile No. ___ Notes Red ___ Date ___ Plotted ___ Date ___ Job No. 5294.31 Division No. 11 Survey of Water Main Align Survey by Bowers Notes RCB Date 6/62 Map No. ___ Indexed H. E. OTT Date ___

X-Sec. No. ___ Notes Chkd. ___ Date ___ Checked ___ Date ___

F.B. 2963 Pg. 61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	℄ Rt.
31+00				18^{6}		39^{5} Top berm
32+00				16^{90}		℄ Pavt.
				16^{70}		24^{8} Edge Pavt.
				16^{28}		33^{3} " Shoulder
				16^{1}		34^{5} F.L.
				17^{6}		48^{3} Bot Brk.
33+00=TP				16^{46}		℄ Pavt.
				16^{29}		24^{8} Edge Pavt
				15^{92}		32^{8} " Shoulder
				15^{8}		35^{8} F.L.
				17^{3}		42^{0} Bot Brk.
34+00				16^{18}		℄ Pavt.
				15^{98}		24^{8} Edge Pavt
				15^{67}		33^{2} " Shoulder
				15^{4}		37^{7} F.L.
				16^{9}		50^{0} Bot. Cut
35+00=T.P.				16^{01}		℄ Pavt
				15^{83}		24^{8} Edge Pavt
				15^{48}		33^{2} " Shoulder
				15^{1}		38^{7} F.L.
				16^{2}		48^{2} Bot. Cut

F.B. 2963 Pg. 62 Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. OTT Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄	Rt.
35+93				15.3			38 Ground
				15.90			38 Top Conc. Catch basin
				12.16			" Invert 24" Conc. Pipe
35+93				15.40	52 Top Drop M.H.		
				11.03	" Invert 24" Conc. Pipe		
36+00				16.01		℄ Pavt.	
				15.83			24 Edge Pavt.
				15.42			33 " Shoulder
				15.23			37 Top Premix Drain
				14.32			40 F.L. " " ℄ Bot Cut
37+00				16.18		℄ Pavt.	
				16.0			24 Edge Pavt.
				15.53			33 " Shoulder
				15.00			43 F.L.
				15.6			47 Bot Cut
38+00=TP				16.58		℄ Pavt.	
				16.33			24 Edge Pavt.
				16.02			33 " Shoulder
				16.1			36 F.L.
				16.5			38 Bot Cut

Profile Notes Rod Plotted Job No. 2943 Division No. 11 F.B. 2963 Pg. 23
No. X-Sec. Date Date Survey of Water Main Align.
No. Notes Ckd. Checked Survey by Bowers Notes R.C.B. Date 2/62
Date Date Map No. Indexed H. E. OTT Date

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄ Rt.
38+36.0				15.94	51.0 Top Drop M.H.	
				11.46	" Invert 24" Conc. Pipe	
				15.8		38.0 Ground
				16.53		38.4 Top Catch basin
				12.70		" Invert 24" Conc. Pipe
39+00				17.05		℄ Pavt.
				16.84		24.8 Edge Pavt.
				16.43		33.2 " Shoulder
				15.8		43.0 F.L. = Bot.
						~~Bot. Cut~~
40+00				17.57		℄ Pavt
				17.56		24.8 Edge Pavt.
				17.24		32.8 " Shoulder
State E.C. = 468+31.00				16.8		41.0 F.L. = Bot. Cut
40+30.38				17.73		℄ Pavt.
				17.82		24.8 Edge Pavt.
				17.49		32.8 " Shoulder
				17.4		41.0 F.L. = Bot. Cut

F.B. 2963 Pg. 64
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
	(Sta. 41+00 to 55+91.20 Are Rt. & Lt. from 30' offset Rt. of Transit Line)						
41+00				18 17		TL	
				18 17			1' Edge Pavt.
				17 72			10.5 " Shoulder
				17 4			15.5 F.L. & Bot Cut
				17 90	24.0 ℄ Pavt		
T.P.				17 76			
42+00				18 09		TL	
				18 10			6.5 Edge Pavt.
				17 62			15.0 " Shoulder
				16 88			23.0 F.L. & Bot Cut
				17 83	18.5 ℄ Pavt.		
42+08.4				17 4			19.6 Ground
				17 65			20.0 Top Catch Basin
				14 43			" Invert 18" Conc Pipe
42+11.3				12 58	68.7 Top Drop M.H.		
				09 43	" Invert, 18" Conc Pipe		
43+00				17 67		TL	
				17 73			7.6 Edge Pavt

Profile No. ___ Notes Red ___ Plotted ___ Job No. 5294.31 Division No. 11 F.B. 2963 Pg. 65
Date ___ Date ___ Survey of Water Main Align.
X-Sec. No. ___ Notes Chkd ___ Checked ___ Survey by Bowers Notes PCB Date 6/62
Date ___ Date ___ Map No. ___ Indexed H. E. OTT Date ___

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
43+00				17 34		16 1	Edge Shoulder
				17 2		21 0	F.L. & Bot Cut
				17 45	17 1 ℄ Pavt.		
44+00				17 19		TL	
				17 25		4 9	Edge Pavt
				16 92		13 4	" Shoulder
				16 7		23 5	F.L. & Bot Cut.
				16 89	20 2 ℄ Pavt.		
45+00 = TP				16 69		TL	
				16 36		7 0	Edge Shoulder
				16 1		17 0	F.L.
				16 6		27 0	Bot Cut
				16 75	2 9 Edge Pavt		
State B.C. = ~~468+26.91~~				16 51	28 0 ℄ "		
45+34 23				16 31		TL	
				16 14		3 4	Edge Shoulder
				16 2		13 5	F.L.
				16 5		18 0	Bot Cut
				16 48	5 3 Edge Pavt		
				16 37	24 7 ℄ "		

F.B. 2963 Pg. 46
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bowers Notes RCB Notes Chkd. Checked X-Sec.
Indexed H.E. OTTO Date Date No.

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Profile Notes Red Plotted Job No. 52443 Division No. 11
No. Date Date Survey of Water Main Alignment
X-Sec. Notes Chkd Checked Survey by R.C. Bruns Notes R.C.B. Date 7/62
No. Date Date Map No. Indexed H.E.O.H. Date

F.B. 2963 PG. 67

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off ℄	Rt.
16+00				15.95		℄	
				15.79			3° Edge Shoulder
				15.9			18° F.L. & Bot Cut
				16.05	5° Edge Pavt		
				16.30	24° ℄ "		
16+86 ℄				15'			38° Ground
				15.78			38° Top Catch basin
				12.02			" Invert 24" Conc. Pipe
"				13.58	50° Top Drop M.H.		
				10.76	" Invert 24" Conc. Pipe		
17+00				15.57		℄	
				15.40			33 Edge Shoulder
				15.2			63 F.L.
				15.7			9° Top berm
				15.74	5° Edge Pavt		
				16.04	30° ℄ "		
18+00				15.41		℄	
				15.22			3½ Edge Shoulder
				15'			8° F.L. & Bot Cut
				15.66	Edge Pavt		
				15.92	30° ℄ Pavt		

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	30' off ℄	Rt.
B.M. 48-132				14 78	B.M. 48-132 (Dume Pt. I-10B 1950)		
					Pac. Coast Hwy., 1.0 Mi. West of Zuma Creek		
					bridge @ Hwy Sta. 460+27.6 ±, 40.6 So. of		
					Approx. ℄ A Std. Co. Sur. Control Trav. Station		
					flush with Street Gr. F.B. 1652-109		
				14 76	Elev. = 14.758 (Prelim. elev., 1962)		
49+00				15 16		℄	
				14 97		3.4	Edge Shoulder
				14 8		8.4	F.L.
				16 3		11.5	Top berm
				15 37	5.0 Edge Pavt.		
				15 62	30.0 ℄ "		
50+00				14 94		℄	
				14 72		3.3	Edge Shoulder
				14 5		7.3	F.L.
				15 2		10.5	Top berm
				15 16	5.0 Edge Pavt.		
				15 40	30.0 ℄ "		

F.B. 2963 Pg. 68
Job No. 5294.31 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
50+35^{2}				14^{3}			8^{0} Ground
				15^{02}			8^{2} Top Catch basin
				11^{31}			" Invert 24" Conc. Pipe
50+35^{7}				13^{82}	80^{8} Top Drop M.H.		
				10^{41}	" Invert 24" Conc. Pipe		
51+00				14^{75}		TL	
				14^{59}			3^{3} Edge Shoulder
				14^{5}			4^{3} F.L.
				15^{4}			7^{0} Top berm
				14^{95}	5^{1} Edge Pavt.		
				15^{16}	30^{0} ℄ "		
52+00=T.P.				14^{56}		TL	
				14^{40}			3^{4} Edge Shoulder
				14^{3}			5^{5} F.L.
				15^{1}			8^{5} Top berm
				14^{72}	5^{1} Edge Pavt.		
				14^{89}	30^{0} ℄ "		
53+00				1436		TL	
				1422			3^{3} Edge Shoulder
				140			[illegible] F.L.
				150			[illegible] Top berm

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.3 Division No. 11 F.B. 2963 Pg. 69
Date ____ Date ____ Survey of Water Main Align.
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Bowers Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30' off ↑L	Rt
53+00				1449	5² Edge Pavt		
				1465	30° ℄ Pavt		
54+00				1406		↑L	
				1388			3⁴ Edge Shoulder
				136			8° F.L.
				144			11° Top berm
				1429	5¹ Edge Pavt		
				1444	30° ℄ "		
54+28²				1250	77⁸ Top Drop MH		
				918	" Invert 18" Conc Pipe		
54+28⁴				1349			10° Ground
				1421			10² Top Catch basin
				1095			" Invert 18" Conc. Pipe
55+00	T.P.			1406		↑L	
				1387			3² Edge Shoulder
				138			8° F.L.
				143			10° Top berm
				1426	5² Edge Pavt.		
				1440	30° ℄ "		

F.B. 2963 Pg. 78
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. Ott Date Date No.

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Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2943 Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN PLAN
Notes Chkd. ____ Checked ____ Survey by Bowers Notes R&B Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. G. J. Date ____

F.B. 2963 PG. 71

STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30' off ℄	Rt
56+00				1408		℄	
				139			3² Edge Shoulder = F.L.
				148			5° Top berm
				1431	5² Edge Pavt.		
				1448	30° ℄ "		
56+77²				1369	80² Top Drop M.H.		
				962	" Invert 18" Conc. Pipe		
				135			10° Ground
				1515			10² Top Catch basin
				1139			" Invert 18" Conc. Pipe
57+00				1434		℄	
				1416			3² Edge Shoulder
				140			7° F.L.
				150			9° Top berm
				1459	5¹ Edge Pavt.		
				1472	30° ℄ "		
58+00	T.P.			1450		℄	
				1429			3² Edge Shoulder
				139			7° F.L. & Bot. Cut
				1476	5¹ Edge Pavt.		
				1500	30° ℄ "		

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30' off ⊼L	Rt
59+00				1465		⊼L	
				1444			3.5 Edge Shoulder
				143			8.0 F.L. & Bot Cut.
				1493	5.1 Edge Pavt		
				1511	30.0 ℄ "		
60+00				1484		⊼L	
				1464			3.4 Edge Shoulder
				143			8.0 F.L.
				153			10.0 Top berm
				1504	5.1 Edge Pavt.		
				1527	30.0 ℄ Pavt		
60+02.0				141			10.5 Ground
				1500			10.8 Top Catch basin
				1115			" Invert 20" Conc. Pipe
60+02.4				1480	80.6 Top Drop M.H.		
~~State Ec.~~ 448+47.89 } 60+12.49 } BK				1058	" Invert 20" Conc. Pipe		
				1487		⊼L	
				1464			3.4 Edge Shoulder
				138			8.0 F.L.
				157			10.0 Top berm

F.B. 2963 Pg. 72 Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. OIT Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
60+12 49				1510	5 1 Edge Pavt		
				1534	30 0 ℄ "		
61+00				156		TL=Top berm	
				146	3 0 F.L.		
				1485	6 3 Edge Shoulder		
				1523	14 9 " Pavt		
	T.P.			1553	30 0 ℄ "		
62+00				155	8 0 Top berm		
				147	9 0 F.L.		
				1504	14 0 Edge Shoulder		
				1540	22 5 " Pavt.		
				1569	47 4 ℄ "		
62+57 2				1355	102 2 Top Drop M.H.		
				980	" Invert 24" Conc. Pipe		
62+61 2				1559	12 5 Top Catch basin		
				1285	" Invert 24" Conc. Pipe		
				147	13 0 Ground		
63+00				156	10 0 Top berm		
				145	12 0 F.L.		
				1574	16 0 Edge Shoulder		
				1554	27 4 " Pavt.		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.31 Division No. 11 F.B. 2963 Pg. 73
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	TL	Rt.
63+00				1592	52.5 ℄ Pavt		
64+00				150	13.0 F.L. & Bot. Cut		
				1540	20.0 Edge Shoulder		
				1580	28.6 " Pavt		
				1611	53.6 ℄ "		
65+00				150	10.0 F.L. & Bot. Cut		
				1560	18.3 Edge Shoulder		
				1597	26.3 " Pavt		
				1625	51.3 ℄ "		
66+00				153	6.0 F.L. & Bot. Cut		
				1571	12.2 Edge Shoulder		
				1610	20.6 " Pavt		
				1650	45.6 ℄ "		
66+80.2				1634	0.2 Top Catch Basin		
				1125	" Invert 24" Conc. Pipe		
				157	0.4 Ground		
66+89.6				1505	89.9 Top Drop M.H.		
				1111	" Invert 24" Conc. Pipe		
67+00				1594	3.5 Edge Shoulder		
				1626	12.1 " Pavt		
	T.P.			1656	37.1 ℄ "		

F.B. 2963 Pg. 74
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd Checked X-Sec.
Indexed H.E. Ott Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30' off TL	Rt
State BC=440+46.74							
67+61.72	BK.			1613		TL	
				1595			3³ Edge Shoulder
				157			7° F.L.
				165			9° Top berm
				1630	5° Edge Pavt		
				1646	30° ℄ "		
68+00				1612		TL	
				1594			3³ Edge Shoulder
				158			7° F.L.
				167			9° Top berm
				1630	5° Edge Pavt		
				1650	30° ℄ "		
69+00				1623		TL	
				1613			3² Edge Shoulder
				158			13° F.L.
				174			15° Bot. Cut
				1635	5° Edge Pavt		
				1655	30° ℄ "		
70+00	T.P.			1642		TL	
				1630			2⁶ Edge Shoulder
				162			23° F.L. & Bot Cut

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 Pg. 75
Date ____ Date ____ Survey of WATER MAIN ALIGN.
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by BOWERS Notes RCB Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	30' off TL	Rt.
70+00				1653	5.4 Edge Pavt		
				1650	30.2 ℄ "		
71+00				162		TL	
				158			20° F.L.
				166			25° Bot. Cut
				1633	1.1 Edge Shoulder		
				1652	9.5 " Pavt.		
				1633	34.1 ℄ "		
71+45.8				1552	Top Drop M.H.		
				1182	Invert 24" Conc. Pipe		
71+51.0				160			1.0 Ground
				1669			1.1 Top Catch basin
				1294			" Invert 24" Conc Pipe
P.I. 71+93.92 BK.				1598	7.5 Edge Shoulder		
				1628	16.0 " Pavt		
				1612	41.0 ℄ Pavt		
72+00				157		TL	
				155			12° F.L.
				174			18° Bot Cut
				1595	8.9 Edge Shoulder		
				1624	15.3 " Pavt.		

F.B. 2963 Pg. 76 Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align. Date Date No.
Survey by Bauer Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. OFF Date Date No.

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	30' off TL Rt.
72+00				1608	40° ℄ Pavt.	
73+00				155		TL
				151		10° F.L. & Bot Cut
				1560	0⁵ Edge Shoulder	
				1597	8⁷ " Pavt.	
	T.P.			1576	33³ ℄ "	
74+00				1539		TL
				1519		3° Edge Shoulder
				151		10° F.L. & Bot Cut
				1563	5³ Edge Pavt.	
				1542	30³ ℄ "	
75+00				1485		TL
				1469		3° Shoulder line
				143		10° Edge Apron & Bot Cut
				1502	5° Edge Pavt	
				1508	30° ℄ "	
75+48⁴				1390	81° Top Drop M.H.	
				1000	" Invert 24" Conc. Pipe	
75+50¹				1403		9° Pavt
				1466		9¹ Top Catch basin
				1393	N.G. SEE PG 172	" Invert 24" Conc. Pipe

Profile Notes Red ____ Plotted ____ Job No. 52943 Division No. ____ F.B. 2963 PG. 77
No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
X-Sec. Notes Chkd. ____ Checked ____ Survey by BOWERS Notes RCB Date 7/62
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
76+00				1422		TL	
				1404			3° Edge Shoulder & F.
				139			13° Bot. Cut
				1439	5' Edge Pavt		
	t.P.			1467	30° ℄ "		
77+00				1387		TL	
				1382			3° Edge Shoulder & F.L
				148			13° Bot. Cut
				1409	5' Edge Pavt		
				1445	30° ℄ "		
77+59.5				132			8' Ground
				1404			8' Top Catch basin
				1031			" Invert 24" Conc. Pipe
77+60°				1328	80' Top Drop M.H		
				931	" Invert 24" Conc. Pipe		
78+00				1360		TL	
				1328			5° Edge Shoulder
				128			13° F.L. & Bot. Cut
				1381	5° Edge Pavt		
				1416	30° ℄ "		

F.B. 2963 Pg. 78
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by BOLIVES Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. OIT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30' off ⊼L	Rt
79+00				1328		⊼L	
				1310			3' Edge Shoulder
				130			6° F.L.
				136			13° Bot. Cut.
				1354	4° Edge Pavt.		
	T.P			1379	30° ℄ "		
80+00				1328		⊼L	
				1313			3° Edge Shoulder
				130			6° F.L.
				135			13° Bot Cut
				1341	5° Edge Pavt.		
				1363	30° ℄ Pavt.		
81+00				1363		⊼L	
				1337			3° Edge Shoulder
				128			10° F.L. & Bot Cut
				1390	5° Edge Pavt.		
				1415	30° ℄ "		
82+00				1448		⊼L	
				1425			3° Edge Shoulder
				129			11° F.L & Bot. Cut
				1470	5° Edge Pavt.		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.31 Division No. 11 F.B. 2963 Pg. 79
X-Sec. No. ____ Date ____ Date ____ Survey of Water Main Align
Notes Chkd. ____ Checked ____ Survey by Bowers Notes RCB Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. F. OTT Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off ⊼L	Rt.
82+00	T.P.			1503	30° ℄ Pavt.		
82+44.8				1165			28° Invert 12" Corr. I.P.
82+63.9				1126			34.2 " " " "
83+00				1539		⊼L	
				1514			7.3 Edge Shoulder
				149			9° Bot berm
				149			15° Top berm
				108			45 Bot Fill
				1553	5.2 Edge Pavt		
				1586	28.2 Bot. Island Curb		
				1638	28.4 Top " "		
				1653	30° ℄ Island		
84+00				1619		⊼L	
				1587			7.7 Edge Shoulder
				158			9° Bot berm
				157			15 Top "
				105			33 Bot fill
				1631	5° Edge Pavt.		
				1667	26.3 Bot Island Curb		
				1720	26.5 Top " "		
				1745	30.4 ℄ Island		

F.B. 2963 PG. 80

Job No. 2943 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Water Main Align. Date ____ Date ____ No. ____

Survey by Bowers Notes RCB Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed H.E. Ott Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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18.59

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Profile Notes Red Plotted Job No 52143 Division No 11
No. X-Sec. Date Date Survey of Water Main Allan
No. Notes Ckd. Checked Surveyed by Beers Notes RCB Date 7/62
Date Date Map No. Indexed H. E. OTT Date
F. B. 2963 Pg 91

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄	Rt.
55+00				1678		℄	
				1635			9± Edge Shoulder
				162			Bot berm
				161			Top "
				63			Bot fill
				1685	3± Edge Pavt.		
				1724	24± Bot Island Curb		
				1778	24± Top " "		
				1810	29± " Island		
	+P BM	= 18.62		966 910			27±5 Top End Wing Wall Ground
55+26.35							
55+33.22				1696		℄	
				1656			11±2 Bot Curb
				1752			12.00 Top Walk
				1760	(See Pg 44 for move Elev. on bridge)		15.00 " "
55+34.31				1644			17±8 " Wing Wall
55+37.31				1693		℄	
				1658			10±1 Bot Curb
				1737			10±1 Top Walk
				1760			13±1 Top Walk
				1737	Bot Island Curb		
				1791	Top " "		

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
85+37 31				1835	℄ Island		
	Sta. 85+91 20 to 94+00 are taken from 40' offset Line						
85+91 20				1666		TL	
				1658			1 98 Bot Curb
				1754			2 18 Top Walk
				1761			5 18 " "
				1742	41 1 Bot Island Curb		
				1797	41 3 Top " "		
				1838	44 8 ℄ Island		
86+32 52				1654		TL	
				1654			1 02 Bot Curb
				1757			1 22 Top Walk
				1763			4 22 " "
				1733	Bot Island Curb		
				1787	Top " "		
				1831	℄ Island		
86+32 55				1631			6 07 Top Wing Wall
86+36 62				1660			2 00 Bot Curb
				1755			2 20 Top Walk

F.B. 2963 PG. 82
Job No. 529431 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align Date Date No.
Survey by Bowers Notes RCB Notes Chkd. Checked X-Sec.
Indexed H.E. OTT Date Date No.

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt	40' OFF AL	Rt
96+36.62				1762			7.20 Top Walk
96+37.75				1503			12.05 Top 4" I.P.
96+44.45				925			17.40 Top Wing Wall
				72			17.5 Ground @ Wing Wall
97+00				161			1.0 Bot. berm
				165			5.0 Top berm
				65			22 Bot fill
				1620	1.0 Edge Shoulder		
				1670	13.6 Edge Pavt.		
				1710	38.2 Bot Island Curb		
				1766	38.4 Top " "		
				1784	41.2 ℄ Island		
97+76.5				1706	42.3 Bot Island Cb		
				1750	42.5 top		
				1750	43.5 ℄		
98+00				165			1.0 Top berm
				95			15.0 Bot fill
				156	1.0 Bot berm		
				1588	2.4 Edge Shoulder		
				1639	15.0 " Pavt		
	T.P.			1687	40.0 ℄ "		

Profile No. X-Sec. No.
Notes Red Date
Notes Chkd Date
Plotted Date
Checked Date
Job No. 5294.3 Division No. 11
Survey of WATER MAIN AVON.
Survey by BOWERS Notes P.C.B. Date 7/62
Map No. Indexed H. E. OTT Date
F.B. 2963 PG. 83

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	40' off TL	Rt.
88+17.80				1667		TL	
				1687	1.6 Top Curb		
				1666	1.8 Bot Curb		
				1603	3.8 Edge Gutter		
				1629	15.0 Edge Pavt		
				1680	40.0 ℄ "		
89+00				1598		TL	
				1657			10.0 Premix Dr
				1587	1.85 Bot Gutter in drive		
				1579	3.85 Edge Gutter		
				1608	15.0 " Pavt		
				1650	40.0 ℄ "		
89+46.0				1645			3.07 Top Jct. box
							" Invert Inlet 15" Cul
89+59.50				1495	76.0 Top drop in box		
					76.0 Invert Outlet 15" Cul.		
89+61.00				1530	1.90 Top Catch basin		
89+64.4					1.90 Invert Outlet Drain		
89+67.85				1509	1.90 Top Catch basin		
89+87.70				1584	1.00 Top End Curb		
				1526	2.00 Bot Curb		

F. B. 2963 PG. 84
Job No. 5294.31 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN Date Date No.
Survey by POWERS Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. OIL Date Date No.

76-L298 CE 307 3-61

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4
17
25

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	40' off TL Rt.
89+87.79				1542	4° Edge Gutter	
90+00				1603		20° Paved Parking Lot
				1562	4° Edge Shoulder	
				1596	15° Edge Pavt	
				1643	40° ℄ "	
90+66.5				1604	2° Edge Shoulder	
				1648	15° " Pavt	
				1685	38° Bot Island Curb	
				1733	38° Top " "	
				1852	40° ℄ "	
91+00				1699		20° " " "
				1633	2° F.L., Edge Shoulder	
				1685	15° Edge Pavt	
				1727	38° Bot Island Curb	
				1779	38° Top " "	
				1798	40° ℄ "	
92+00				1871		20° " " "
				1828	2° F.L., Edge Shoulder	
				1870	15° Edge Pavt	
				1905	38° Bot Island Curb	
				1956	38° Top " "	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 5294.3 Division No. 11
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of WATER MAIN DIVISION
Survey by BOWERS Notes R.C.B. Date 7/62
Map No. ____ Index H. E. OTT Date ____

F.B. ____ Pg. 85

76-L298 CE 307 8-61

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F.B. 2963 Pg. 81 Job No. 5294.3 Division No. 11 Notes Red Plotted Profile
Survey of Watts Main Align. Date Date No.
Survey by Roberts & Beebe Notes Chkd Checked X-Sec.
Indexed HEROI Notes Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	40' off ℄	Rt.
92+00	T.P.			1970	39^{S} ℄ Inland		
92+28^{B}				1947			20° Paved Parking Lo
				1883	2° F.L. - Edge Shoulder		
				1943	15° Edge Pavt		
				1985	39^{S} Bot Is. Curb		
				2030	39^{2} Top " "		
				2037	41° ℄ Is.		
93+00				2095		TL	
				2116			20° Trancas Cyn Ro
				2088	2° Edge Shoulder		
				2157	15° " Pavt		
	T.P.			2210	40° ℄ Pavt		
93+07^{B}				2133	2° Edge Shoulder		
				2183	15° " Pavt		
				2230	38° Bot Is. Curb		
				2275	38^{2} Top Is. Curb		
				2274	40° ℄ Is.		
93+29^{69}				2218		TL	
				2251			10° Edge Paved Parking
				2273			60° Parking Lot
				2212	2° Edge Shoulder		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	40' off TL	Rt.
73+29.69				2257	15° Edge Pavt		
				2310	38° Bot Is. Curb		
				2354	38° Top Is Curb		
				2348	40° ℄ Is.		
74+00				2508			10° Dirt
				2466	2° F.L. (Dirt)		
				2491	5° Edge Shoulder		
				2547	15° Edge Pavt		
				2584	38° Bot Is. Curb		
				2630	38° Top " "		
				2626	40° ℄ "		
B.M. 48-137				1399	B.M. 48-137 (R.M. Beach Control Z-5 At W. end of Zuma Beach on S. Side of Broad Beach Rd. near Jct. with Pac. Coast Hwy. @ Trancas Cr. Rd. A std. C.S. Mon. stamped "R.M. Z-5, R.E. 329, Dn 12". Elev. = 14.008, F.B. 1369-114		

Profile No. X-Sec. No. Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Job No. 52943 Division No. 11 Survey of Water Main Align. Survey by R.C. Bowers Notes R.C.B. Date 7/62 Map No. Indexed H. E. OTT Date F. B. 2963 Pg. 87

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

Survey of WATER MAIN ALIGN.
J.N. 529431 Tape 0222 Std 68 °F
Surveyed by R.C. BOWERS
Notes R.C.B. Date 6/62
Indexed H. E. OTT JUL 12 '62

F. B. 2962 PG. 89

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY

WATER WORKS DIST # 29

TIES TO L.A.CO. PRECISE TRAVERSE CONTROL STA.

J.N. 529431

JUNE 1962

REF
F.B. 1625
A-91-001

PARTY
BOWERS
LE GAULT
CROMDER
OHASHI

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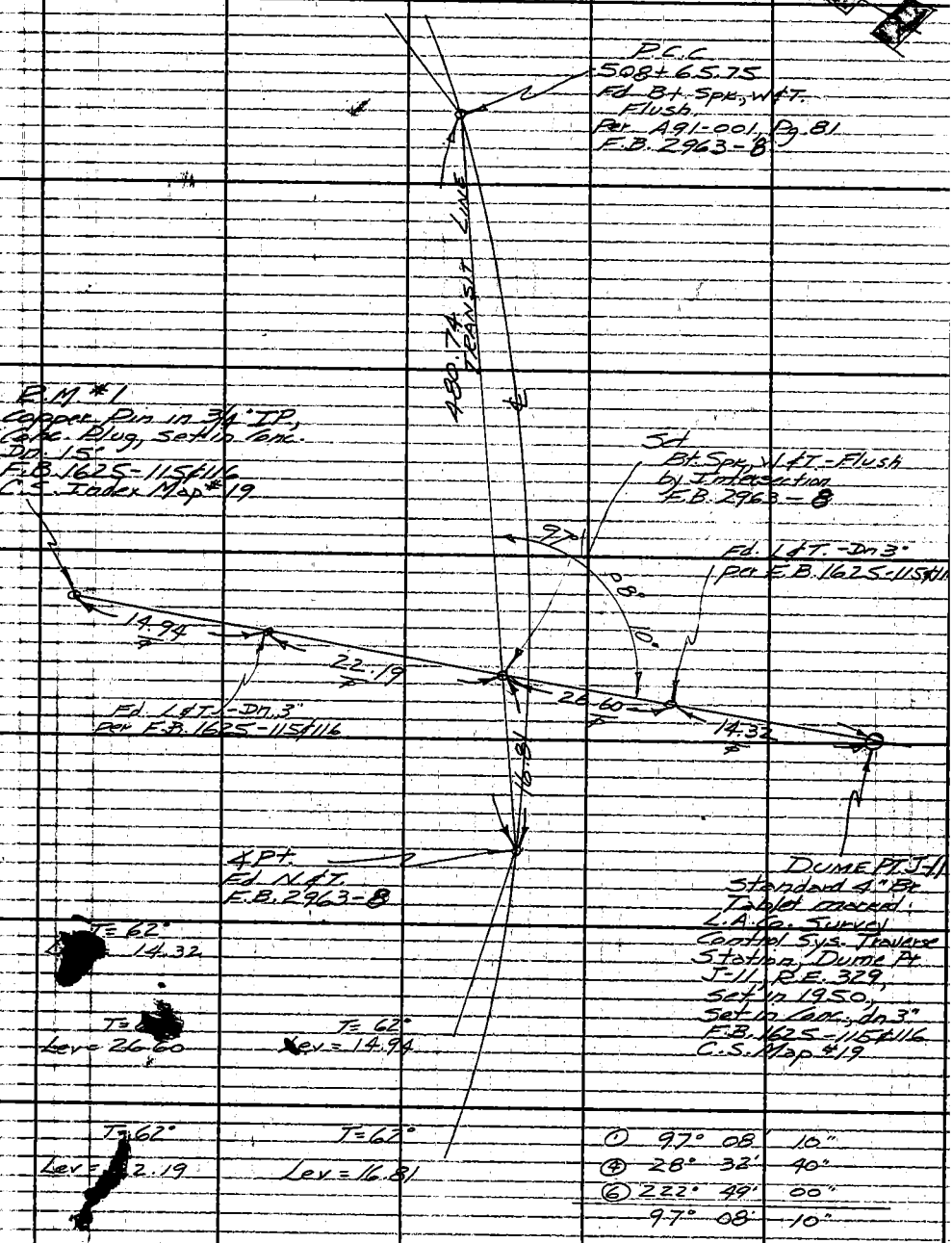
76F3098 CE # 310 3-61

Notes Ck'd by	Survey of WATER MAIN ALIGN.
Map No.	JN 52943 Tape 0222 Std 68 °F
Office Work	Surveyed by R.C. BOWERS
Checked	Notes R.C.B. Date 6/62
Date	Indexed H. E. OIT

F.B. 2963 PG. 91



①	97°	08'	10"
④	28°	32'	40"
⑥	222°	49'	00"
	97°	08'	10"

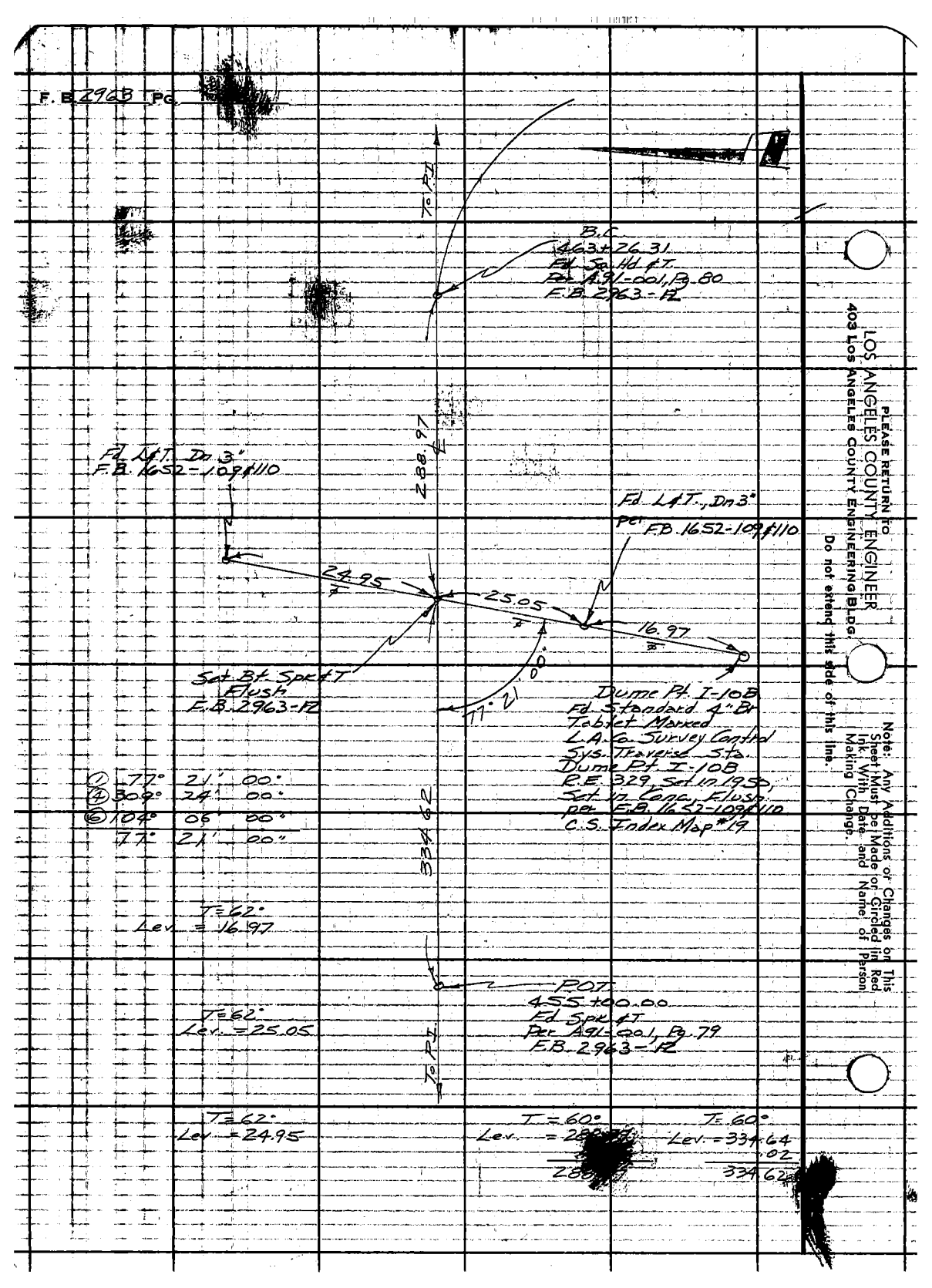
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

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

76F309S CE # 310 3-61

F. B. 2963 Pg. 12



① 77° 21' 00"
② 30° 24' 00"
③ 104° 06' 00"
77° 21' 00"

T = 62°
Lev. = 16.97

T = 62°
Lev. = 25.05

T = 62°
Lev. = 24.95

T = 60°
Lev. = 288.97

T = 60°
Lev. = 334.64
.02
334.62

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Notes C'k'd by
Map No.
Office Work
Checked
Date

Survey of WATER MAIN ALIGN
JN 529431 Tape @ 222 Std 68 °F.
Surveyed by Bowers
Notes R.C.B Date 7/62
Indexed H. E. OTT AUG 3 '62

F. B. 2963 PG. 93

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY
WATER WORKS DIST #29

FROM ZUMA VIEW DRIVE
TO
ZUMA BEACH ENT.

J.N. 529431

JULY 1962

REF.
F.B. 1656

PARTY
BOWERS
LE GAULT
CROWDER
GIEDEMAN

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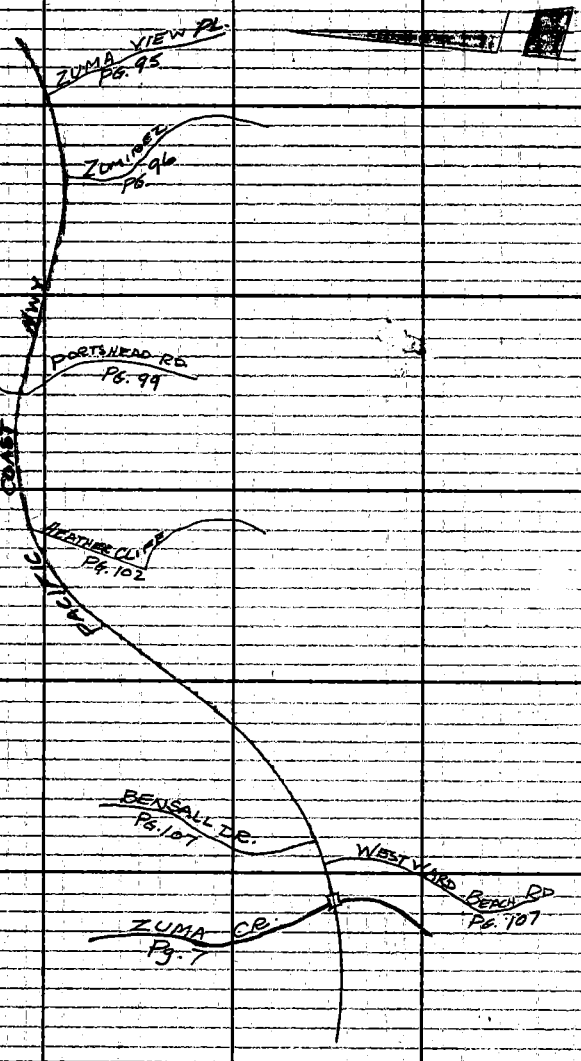
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

F. B. 2983 Pg. 1 94

INDEX

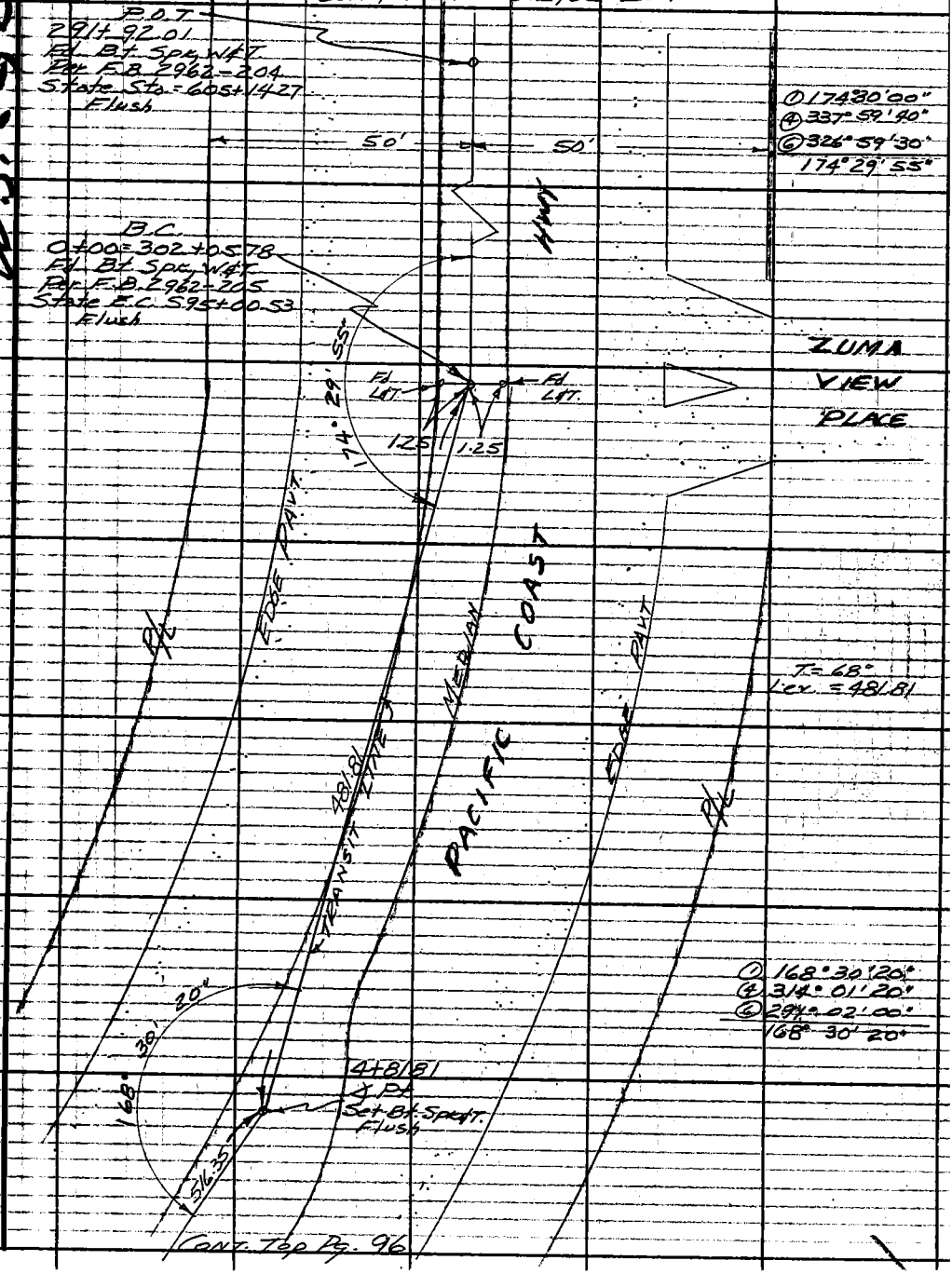


PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
Do not extend this side of this line.

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

Notes Ck'd by	Survey of WATER MAIN ALIGN	F. B. 2963 PG. 95
Map No.	J.N. 5294.31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R. C. BOWERS	
Checked	Notes RCB Date 7/62	
Date	Indexed H. E. OTT	

CONT FROM F.B. 2962-204



CONT. TOP PG. 96

W.S. C.3 B-4

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

Do not extend this side of this line.

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

76F309S CE # 310 3-61

F.B. 2903 Pg. 96

Cont from Bat. Pg 95

WS 192 A-4

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LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
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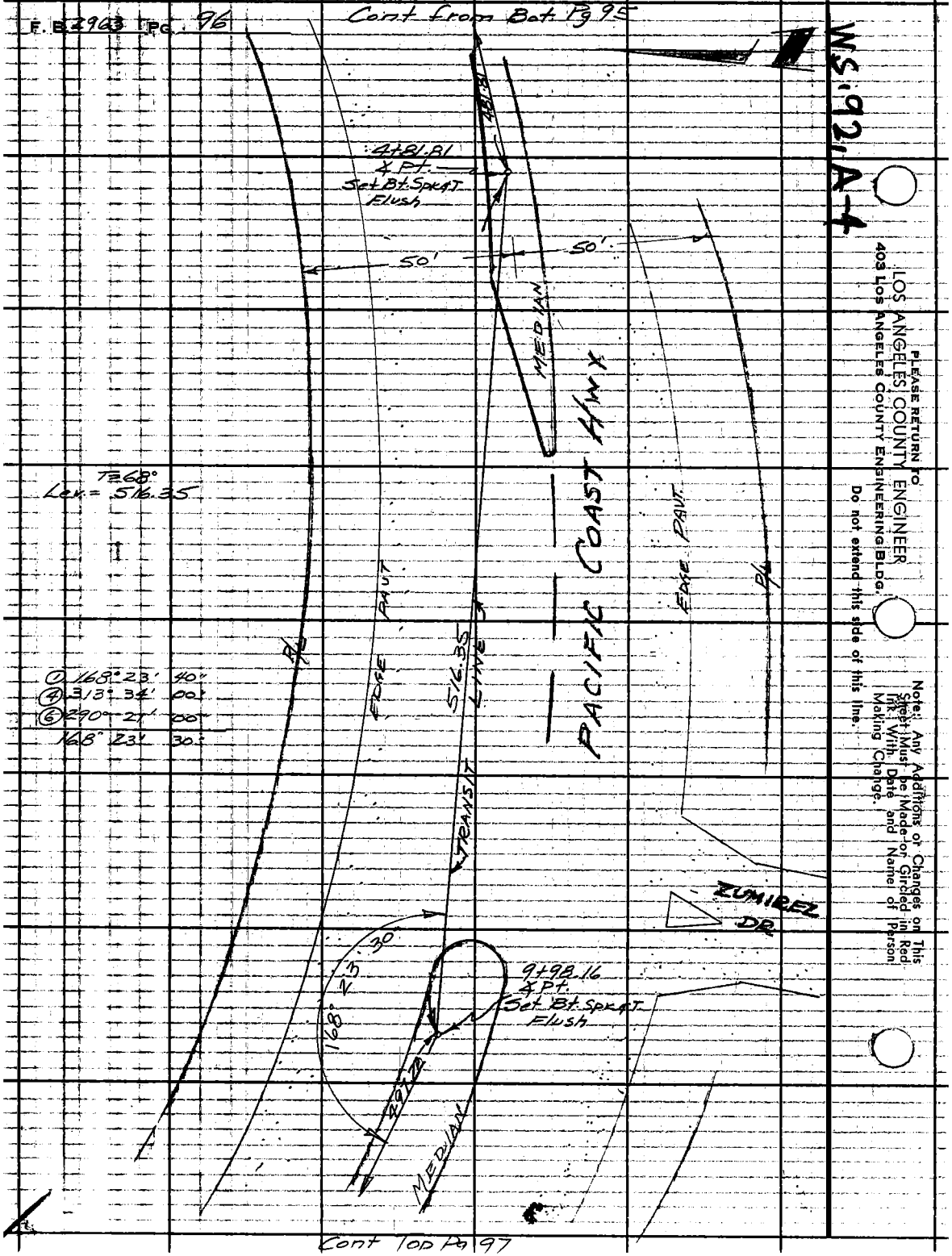
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red. Initial With Date and Name of Person Making Change.



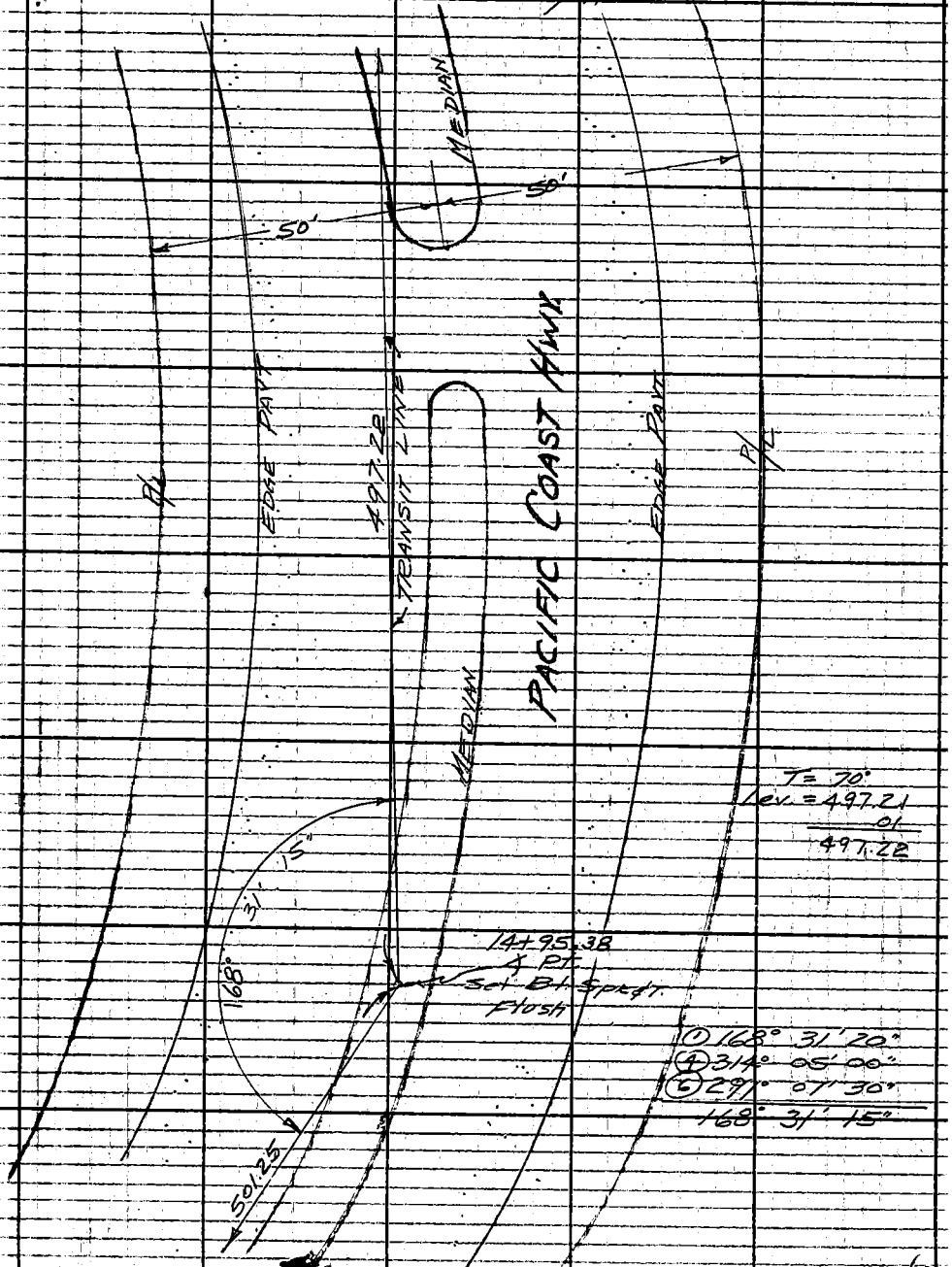
Cont top Pg 97

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

Survey of WATER MAIN ALIGN
JN 52943 Tape 0222 Std 68 °F
Surveyed by R.E. Powers
Notes R.E.P. Date 7/62
Indexed R. E. OTT

F. B. 2963 Pg. 97

CONT from Bot Pg 96



T = 70°
Lev. = 497.21
or
497.22

① 168° 31' 20"
② 314° 05' 00"
③ 297° 07' 30"
168° 31' 15"

CONT Top Pg 98

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

Do not extend this side of this line.

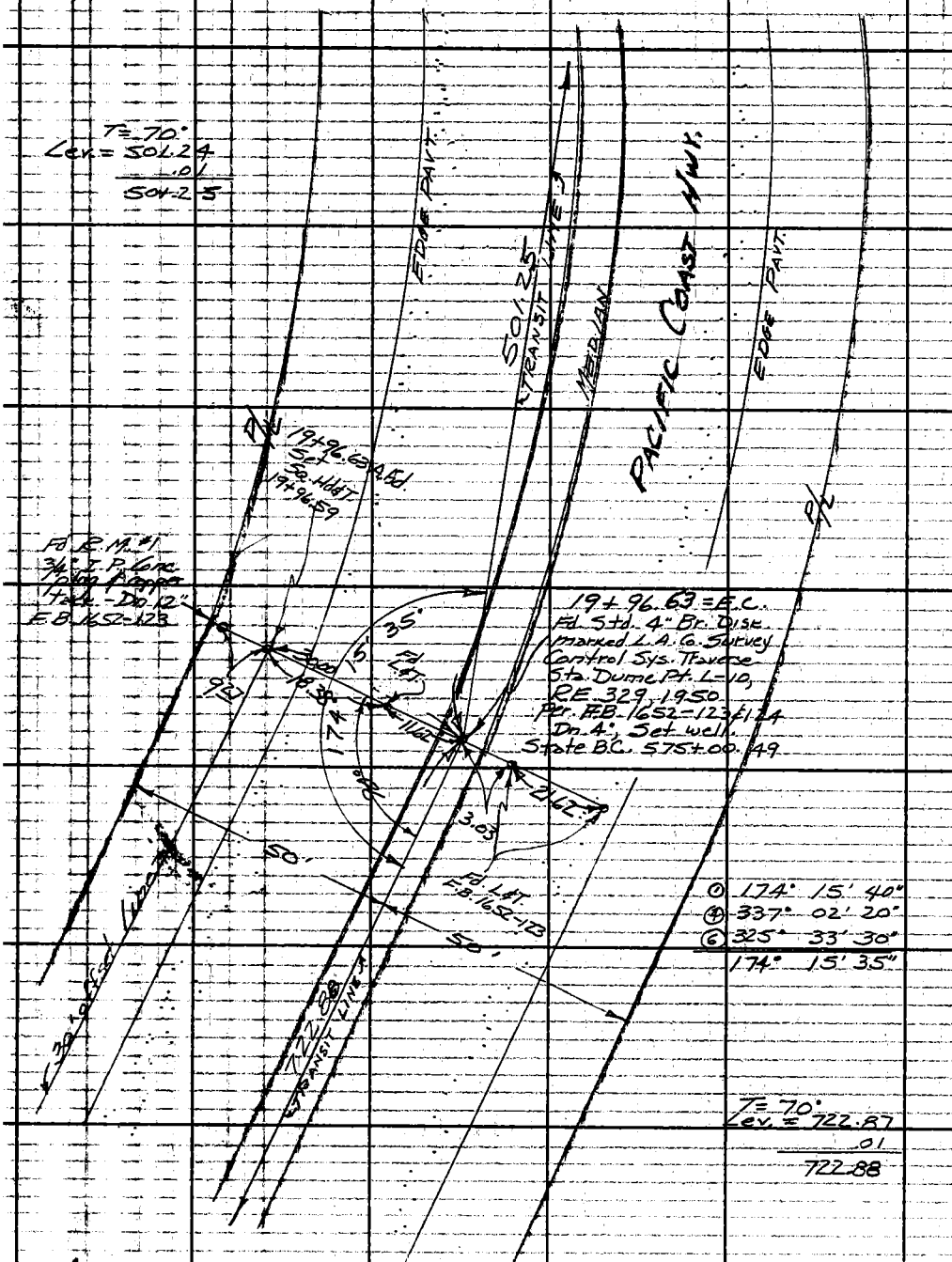
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

76F3095 CE # 310 3-61

F. B. 2963 Pg. 98

Cont. from Bot. Pg. 97

W.S. 92A-4

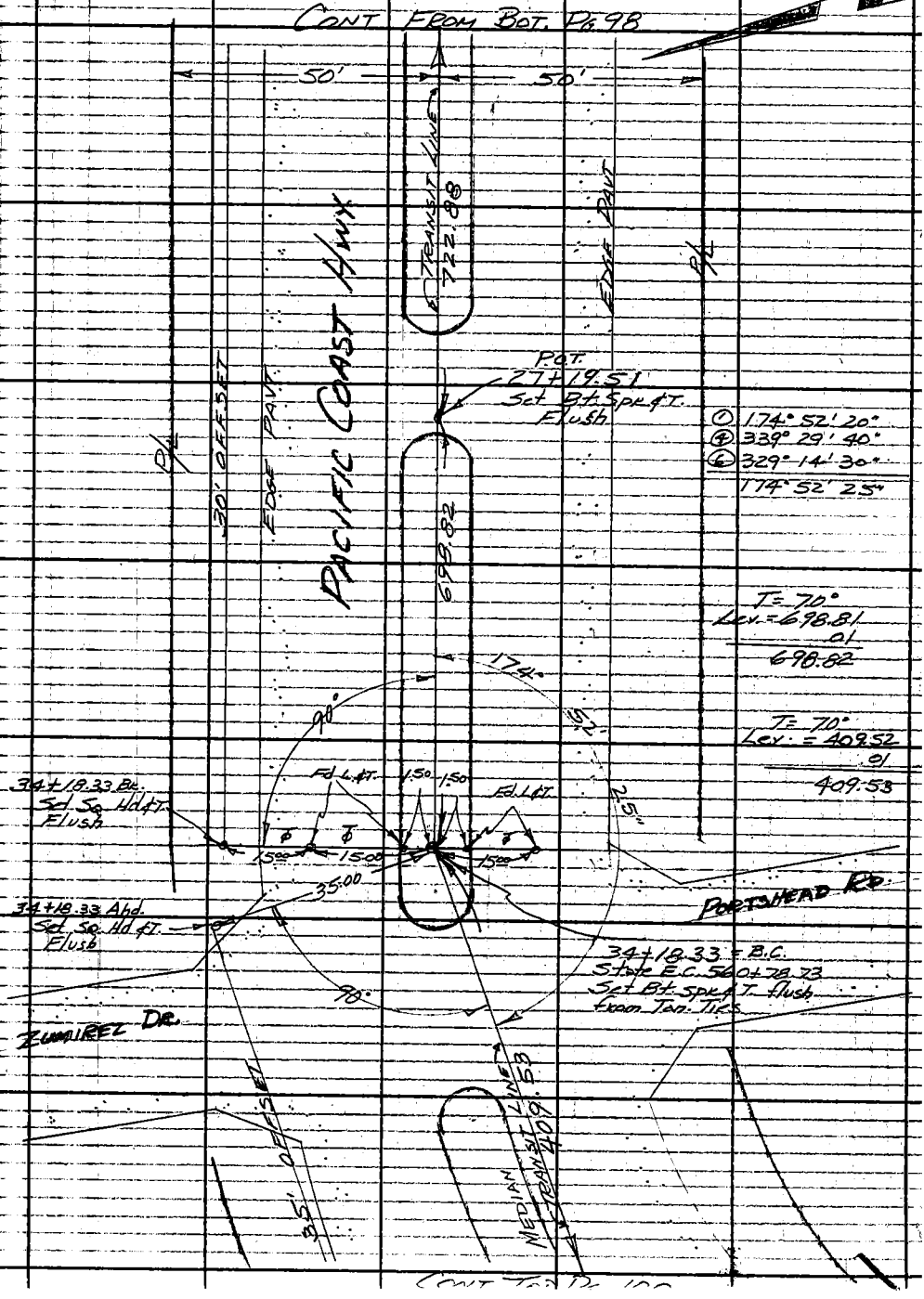


Cont. Top Pg. 99

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
Do not extend this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of WATER MAIN ALIGN.	F. B 2963 PG. 99
Map No.	JN 5294.31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R. C. BOWERS	
Checked	Notes R.C.B Date 7/62	
Date	Indexed H. E. OTT	

W592 A-4



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

Do not extend this side of this line.

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

76F309S CE # 310 3-61

F.B. 2963 Pg. 100

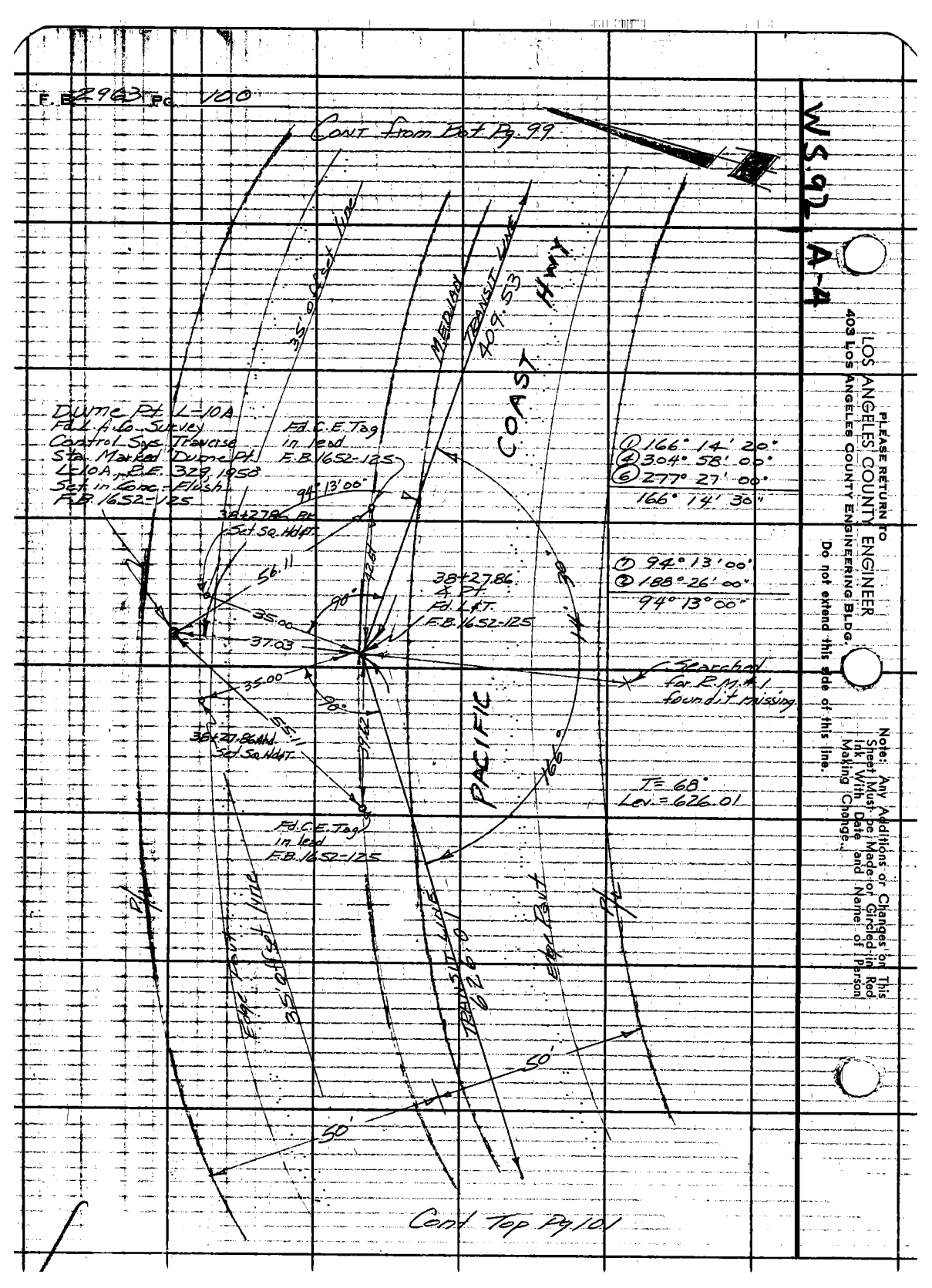
WS 92 A-4

LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

PLEASE RETURN TO

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.

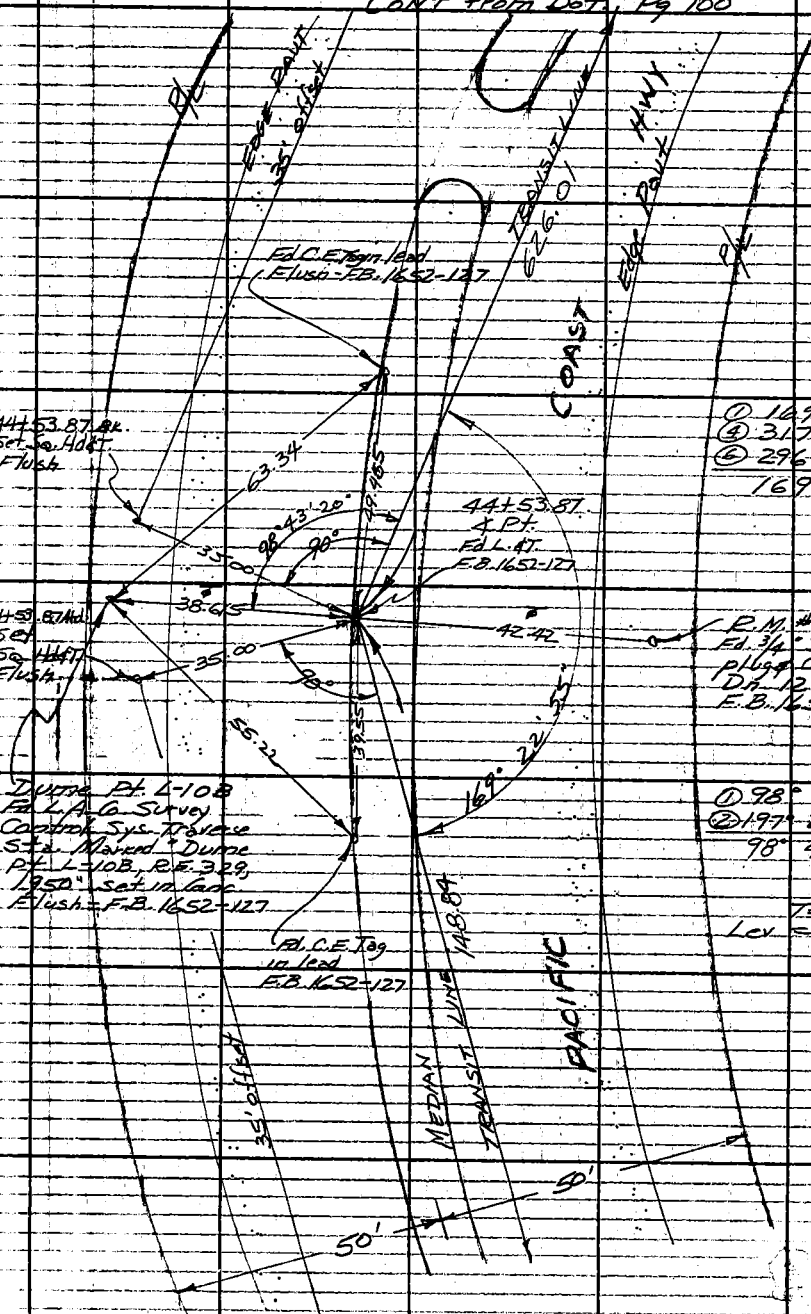


① 166° 14' 20"
④ 304° 58' 00"
⑥ 277° 27' 00"
166° 14' 30"

① 94° 13' 00"
② 188° 26' 00"
94° 13' 00"

Notes Ck'd by	Survey of WATER MAIN ALIGN	F. B. 2963 PG. 101
Map No.	JN 529431 Tape 0222 Std 68 °F	
Office Work	Surveyed by R. C. Bowers	
Checked	Notes R. C. B Date 7/62	
Date	Indexed H. E. OTT	

CONT from Bot. Pg 100



① 169° 22' 50"
④ 317° 31' 40"
⑥ 296° 17' 30"
169° 22' 55"

① 98° 43' 20"
② 197° 26' 40"
98° 43' 20"

T = 68°
Lev = 148.84

CONT Top Pg. 102

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

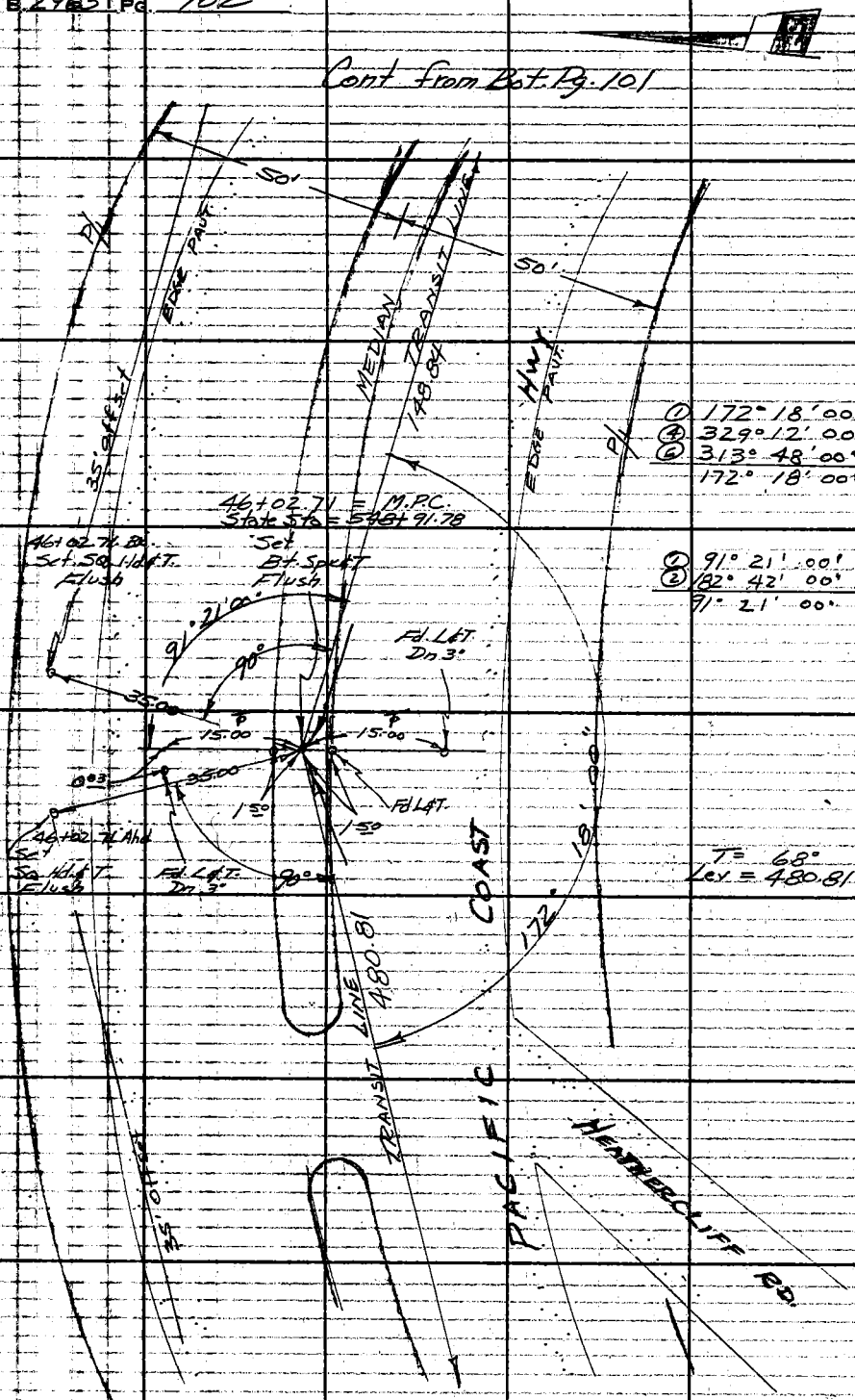
Do not extend this side of this line.

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

76F309S CE # 310 3-61

F. B. 2963 Pg. 102

Cont from Bot. Pg. 101



① 172° 18' 00"
④ 329° 12' 00"
② 313° 48' 00"
172° 18' 00"

① 91° 21' 00"
② 182° 42' 00"
91° 21' 00"

Cont Top Pg 103

W.S. 92, A-4

LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

PLEASE RETURN TO

Do not extend this side of this line.

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

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

Survey of WATER MAIN ALIGN.
J.N. 52943 Tape 02222 Std 68 °F
Surveyed by R.G. Bowers
Notes Bowers Date 7/62
Indexed H. E. OTT

F.B. 2963 PG. 103

Cont. from Bot Pg. 102

Cont. Top Pg. 104

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

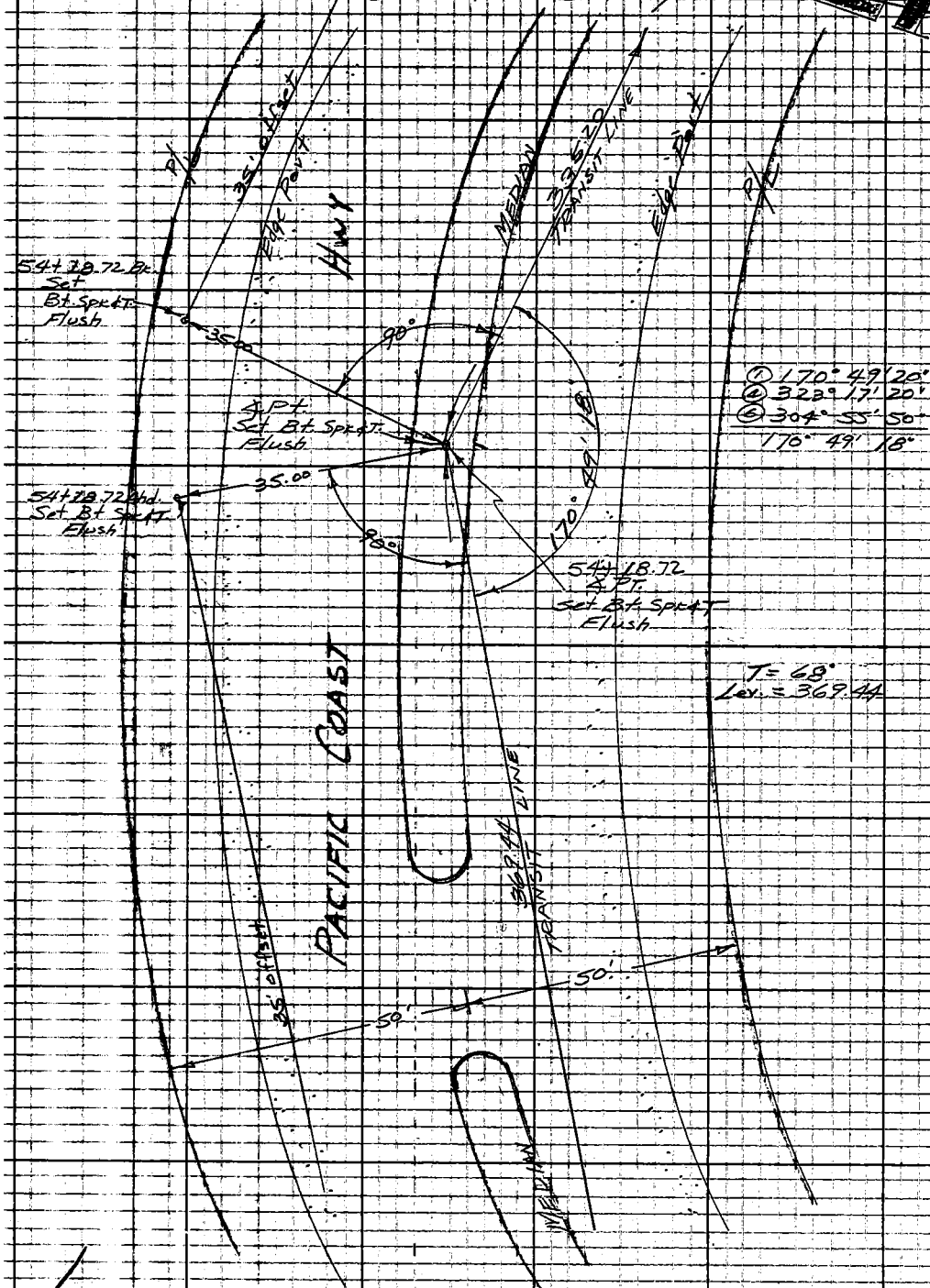
Do not extend notes this side of this line.

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

76909S CE #247—7-59

F.B. 2963 PG. 104

Cont from Bot Pg 103



① 170° 49' 20"
④ 323° 17' 20"
⑥ 304° 55' 50"
170° 49' 18"

T = 68°
Lev. = 369.44

Cont Top Pg 105

WS92-A-A

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

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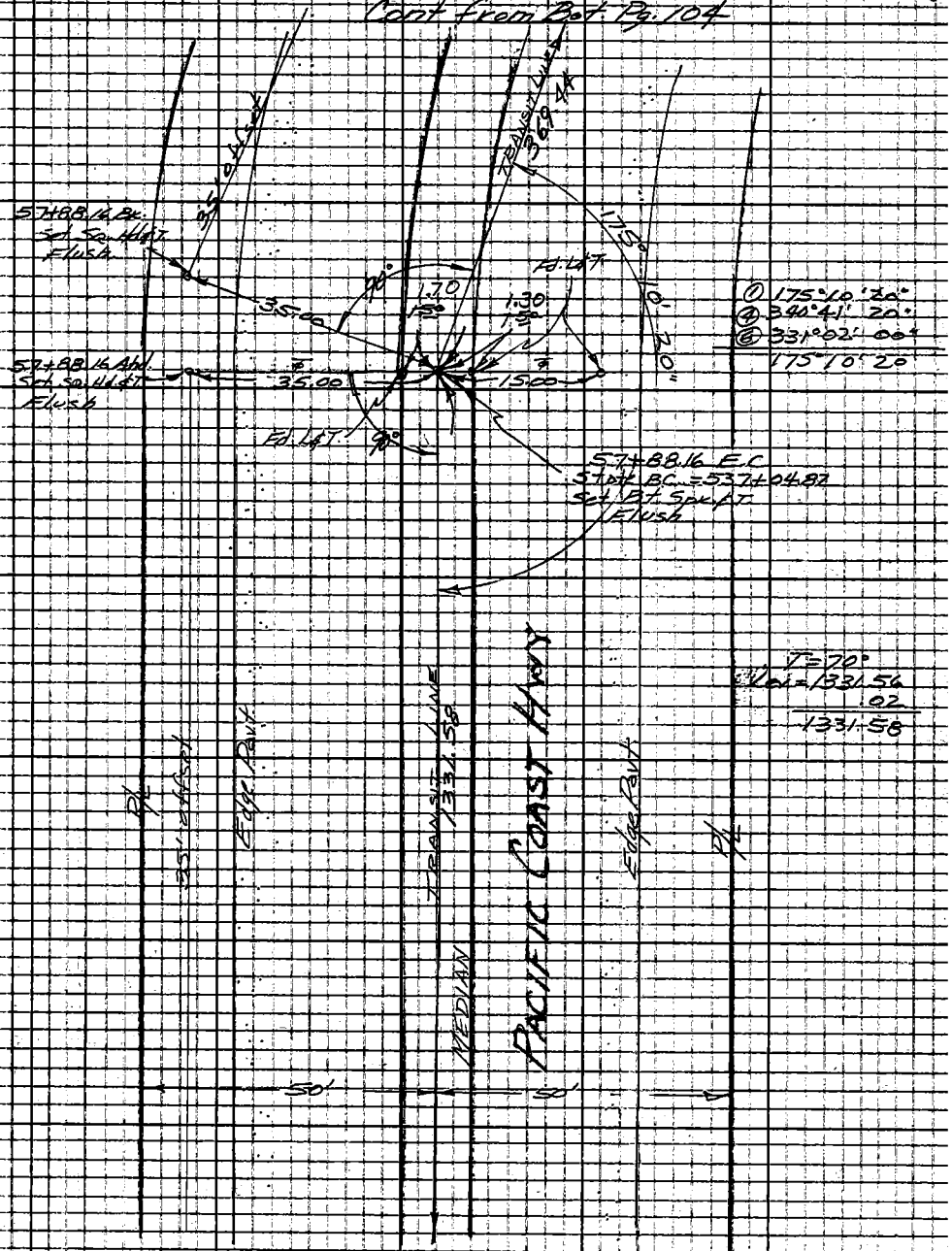
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of WATER MAIN ALIGN
Map No.	JN 5294.31 Tape 0222 Std 68 °F
Office Work	Surveyed by R.C. BOWERS
Checked	Notes RCB Date 7/62
Date	Indexed H. E. OTT

F. B 2963 PG. 105

Cont from Bot. Pg. 104



Cont. Top Pg. 106

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

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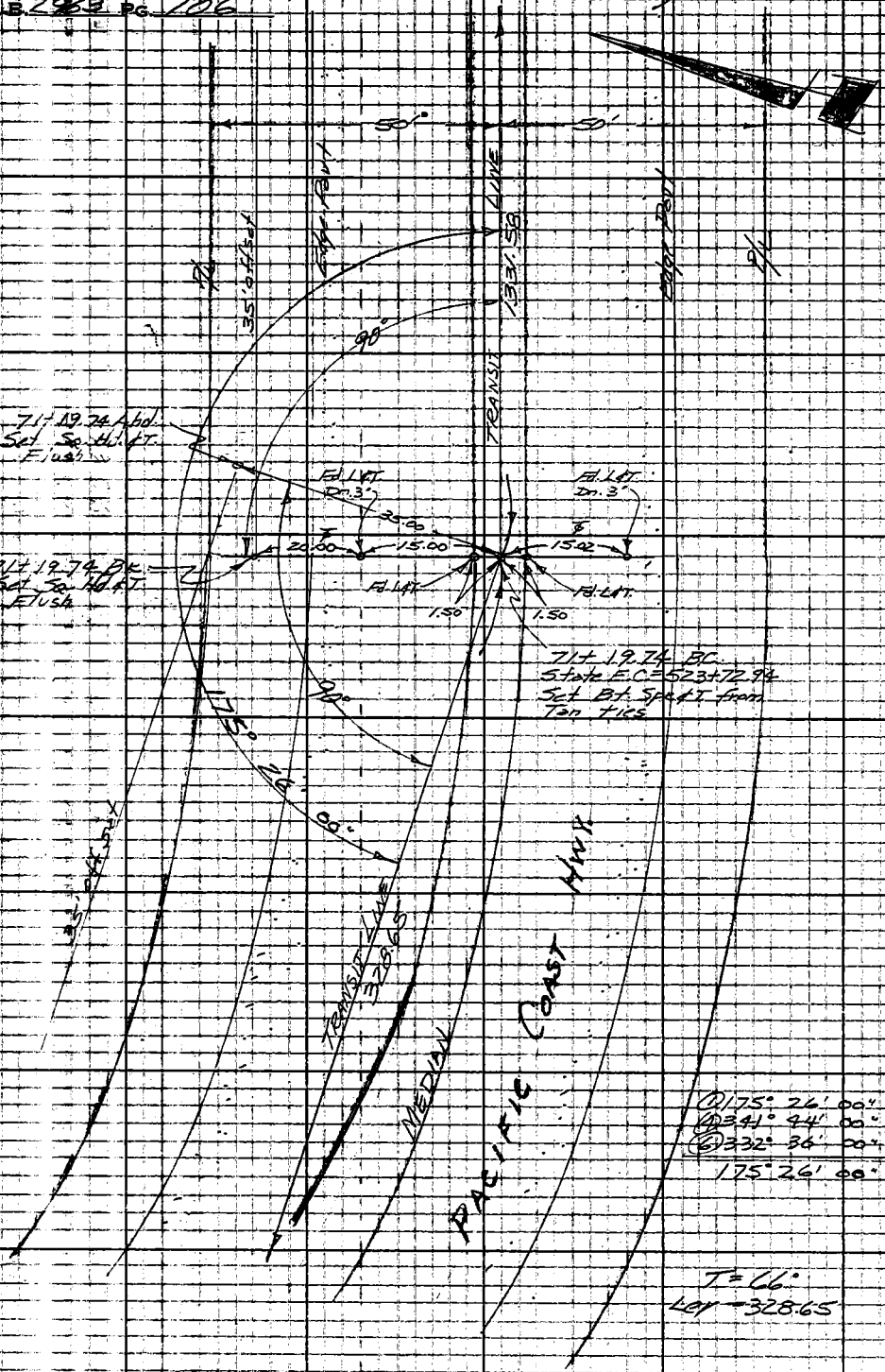
RETURN TO
LOS ANGELES COUNTY ENGINEER
100 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247 7-53

F.B. 2982 PG. 106

Cont from Bot. Pg. 105



Cont Top Pg. 107

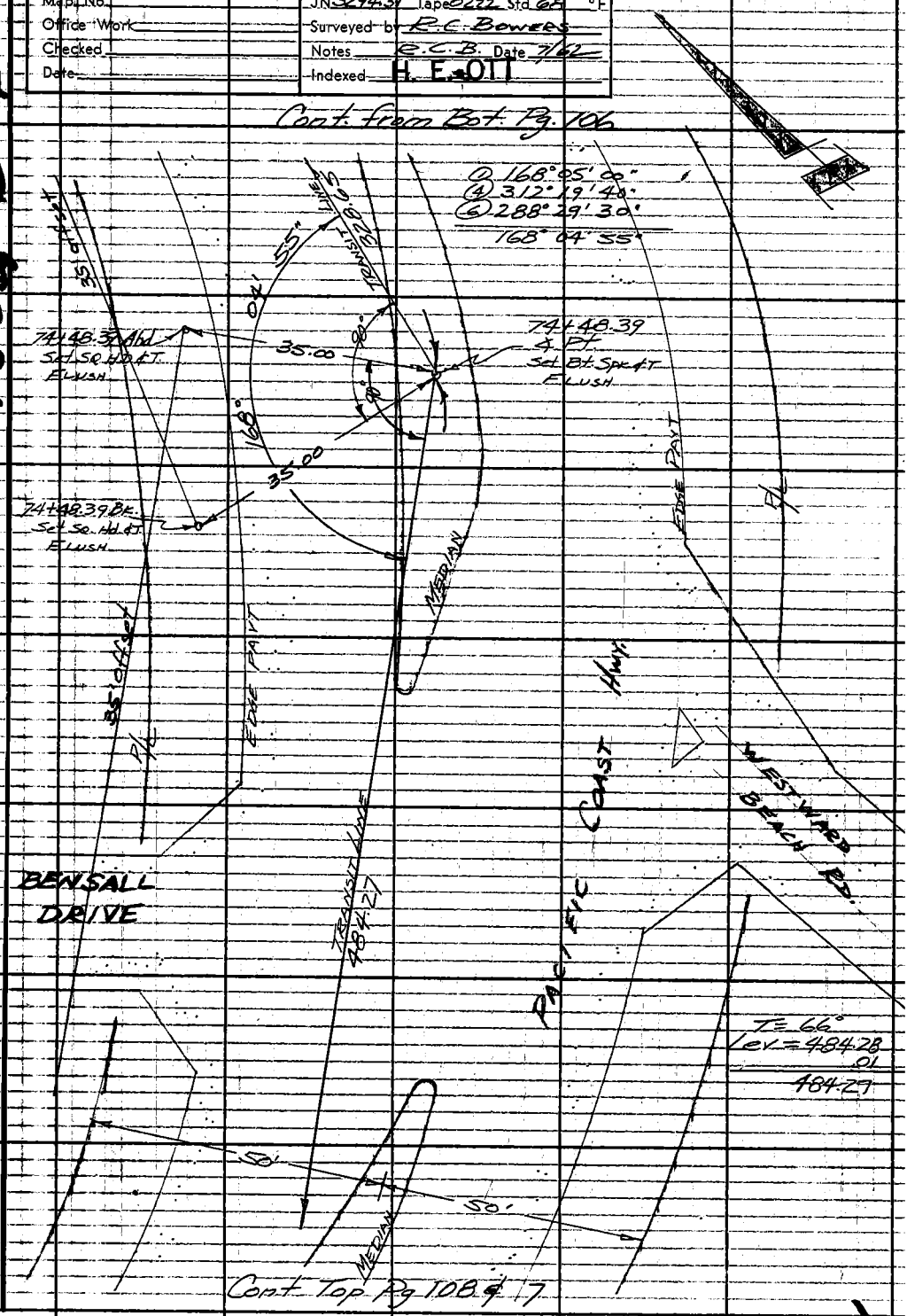
RETURN TO
LOS ANGELES COUNTY ENGINEER
900 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line

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

Notes Ck'd by	Survey of WATER MAIN ALIGN	F. B. 2963 PG. 107
Map No.	JN 5294.31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R.C. BOWERS	
Checked	Notes E.C.B. Date 7/62	
Date	Indexed H. E. OTT	

Cont. from Bot. Pg. 106



Cont. Top Pg 108 & 7

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

Do not extend this side of this line.

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

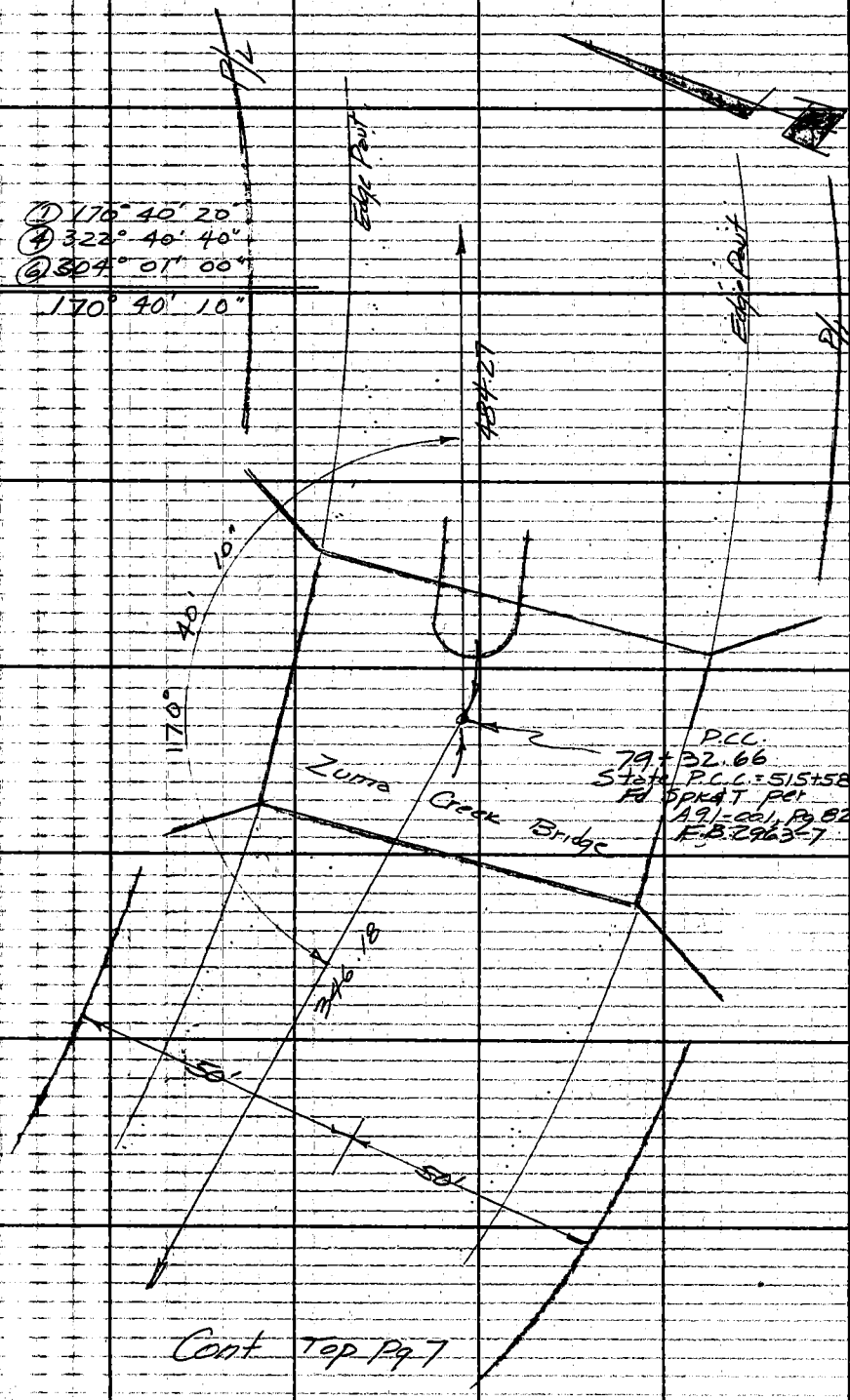
76F309S CE # 310 3-61

F. B. 2963 PG. 108

Cont from 107 # 7

W.S. 95, D-4

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



① 170° 40' 20"
④ 322° 40' 40"
⑤ 304° 01' 00"
170° 40' 10"

Cont Top Pg 7

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

Survey of WATER MAIN ALIGN.
JN 5294.31 Tape 0222 Std 68 °F
Surveyed by E.C. BOWERS
Notes R.C.B. Date 7/62
Indexed H. E. OTT AUG 3 '62

F.B. 2963 Pg. 109

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

Do not extend this side of this line.

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

76F3095 CE # 810 3-61

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY

WATER DIST # 29

CADESTRIAL TIES

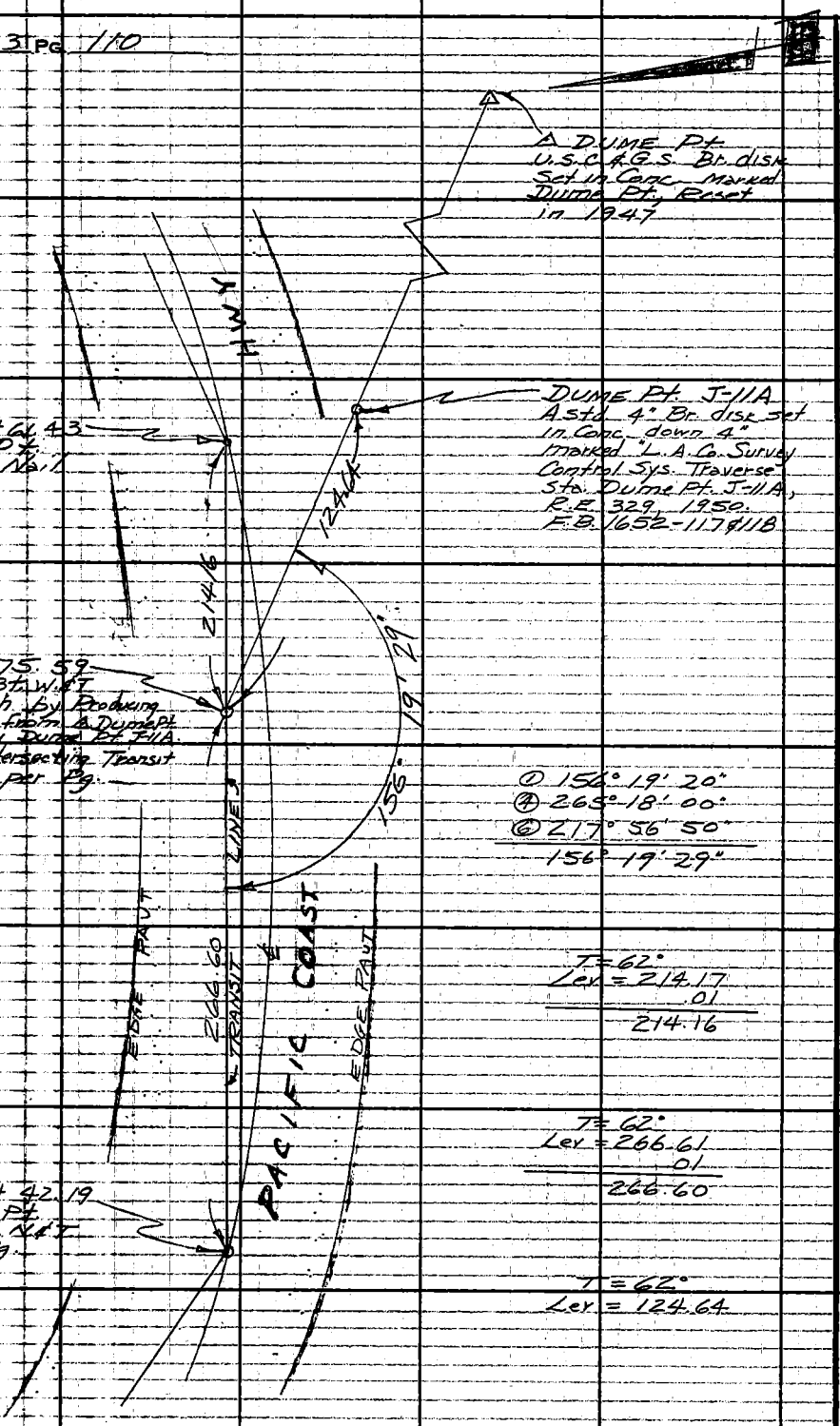
J.N. 529431

July 1962

REF.
F.B. 1652

PARTY
BOWERS
LE GAULT
CROWDER
GIEDEMAN

F. B. 2963 Pg. 110



① 156° 19' 20"
② 265° 18' 00"
③ 217° 56' 50"
156° 19' 29"

T = 62°
Lex = 214.17
.01
214.16

T = 62°
Lex = 266.61
.01
266.60

T = 62°
Lex = 124.64

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Notes Ck'd by	Survey of WATER MAIN ALIGN.	F.B. 2963 PG. 111
Map No.	J.N. 5294-31 Tape 0222 Std 68 °F	
Office Work	Surveyed by R.C. BOWERS	
Checked	Notes R.C.B. Date 7/62	
Date	Indexed H. E. OTT	

WS 95 C-3

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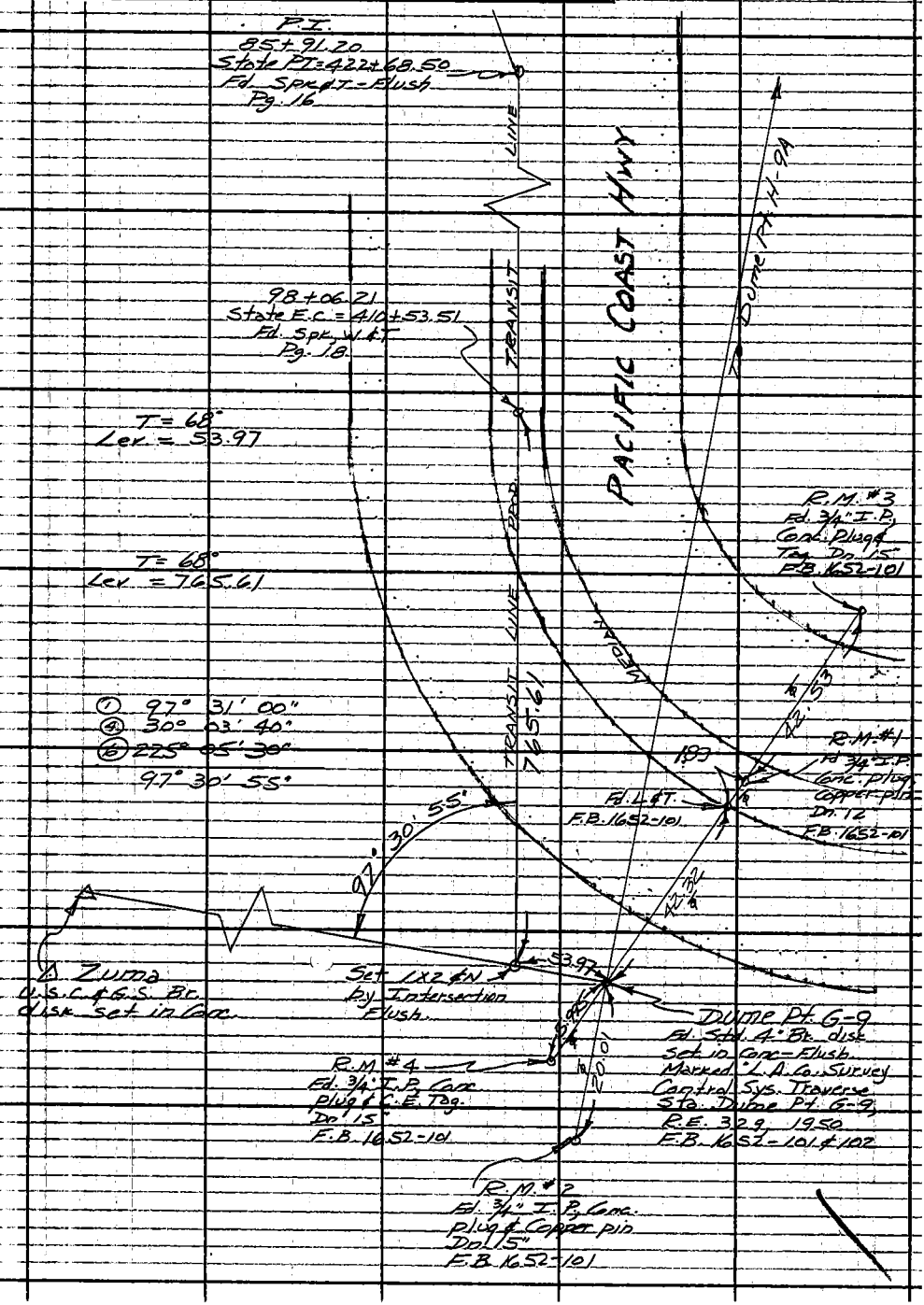
Do not extend this side of this line.

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



76F3098 CE # 310 3-61

Notes Ck'd by	Survey of W.W.D. #29 Water Main Alwin	F.B. 2963	Pg. 113
Map No.	JN 529431 Tape Std	of F	
Office Work	Surveyed by Burkholder		
Checked	Notes D.L.B. Date 7-16-62		
Date	Indexed H. E. OTT AUG 3 '62		

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

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

76F3095 CE #247 3-57

J.N. 529431

WATER WORKS DIST. #29

WATER MAIN ALIGNMENT

Location of Improvments

from: Sta. 302705.78 = 0+00

to: Sta. 86+45.02 = 0+00

Burkholder
Jones
Dover
Alwin

F.B. 2963 PG 114

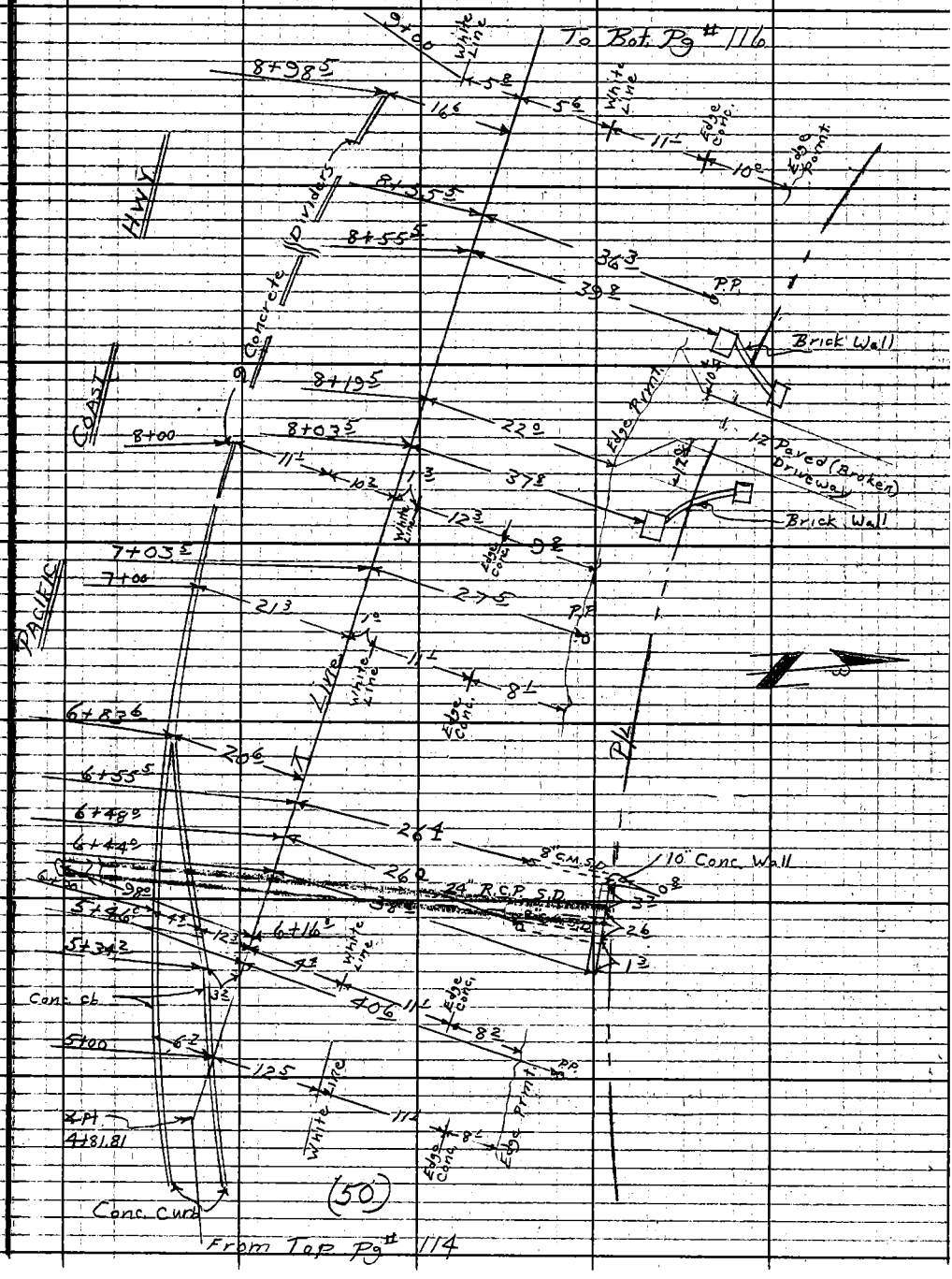
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of W.W.D. #29 Water Main Align.
Map No.	JN 5294.31 Tape Std. °F
Office Work	Surveyed by Burkholder
Checked	Notes D.L.B. Date 7-17-62
Date	Indexed H. E. OTT

F.B. 2963 PG. 115



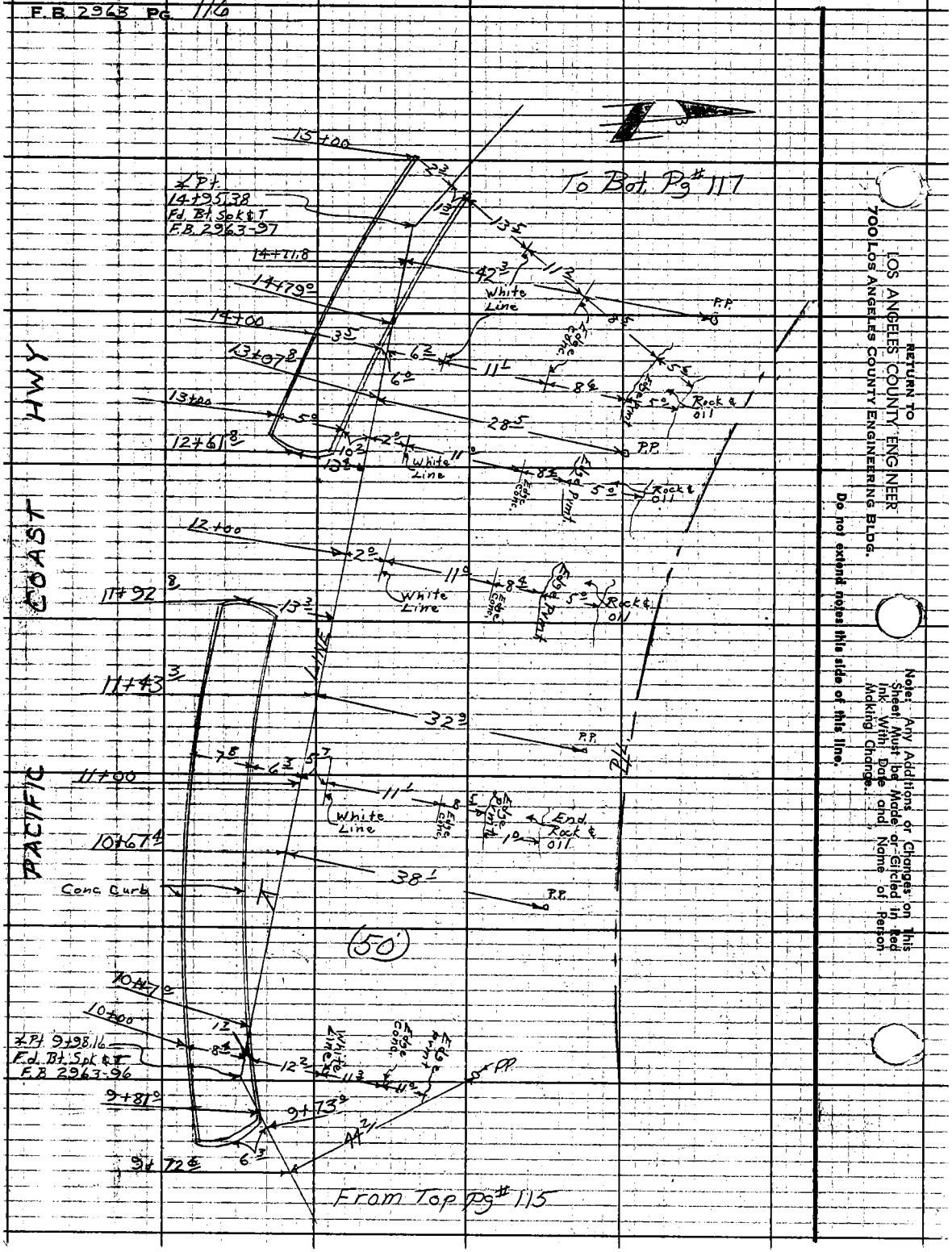
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76F3095 CE #247—3-57

F.B. 2963 Pg. 116

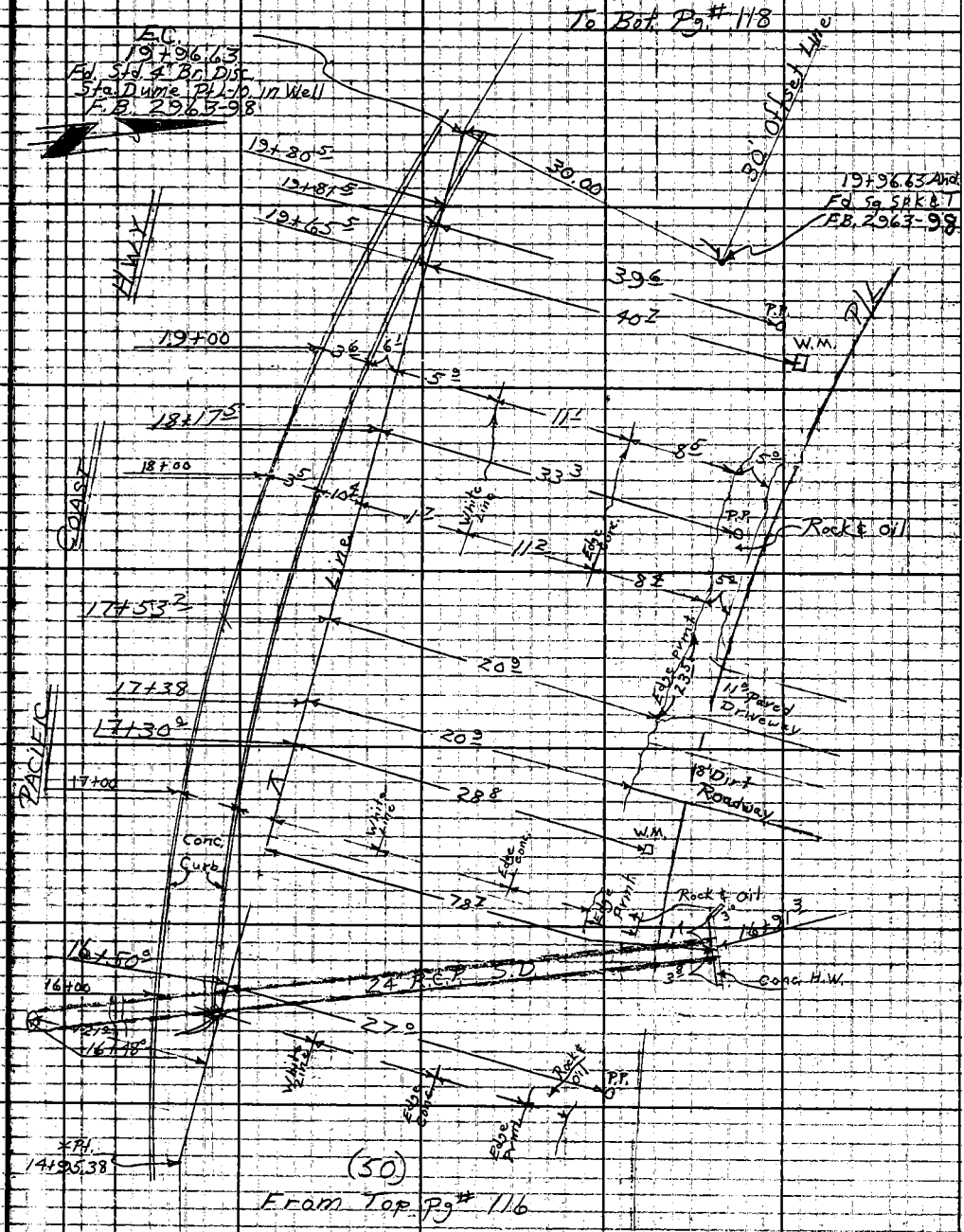


RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of W.W.D. #29 Water Main Align	F.B. 2963 PG 117
Map No.	JN 529431 Tape Std °F	
Office Work	Surveyed by Burkholder	
Checked	Notes D.L.B. Date 7-17-62	
Date	Indexed H. E. OTT	



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

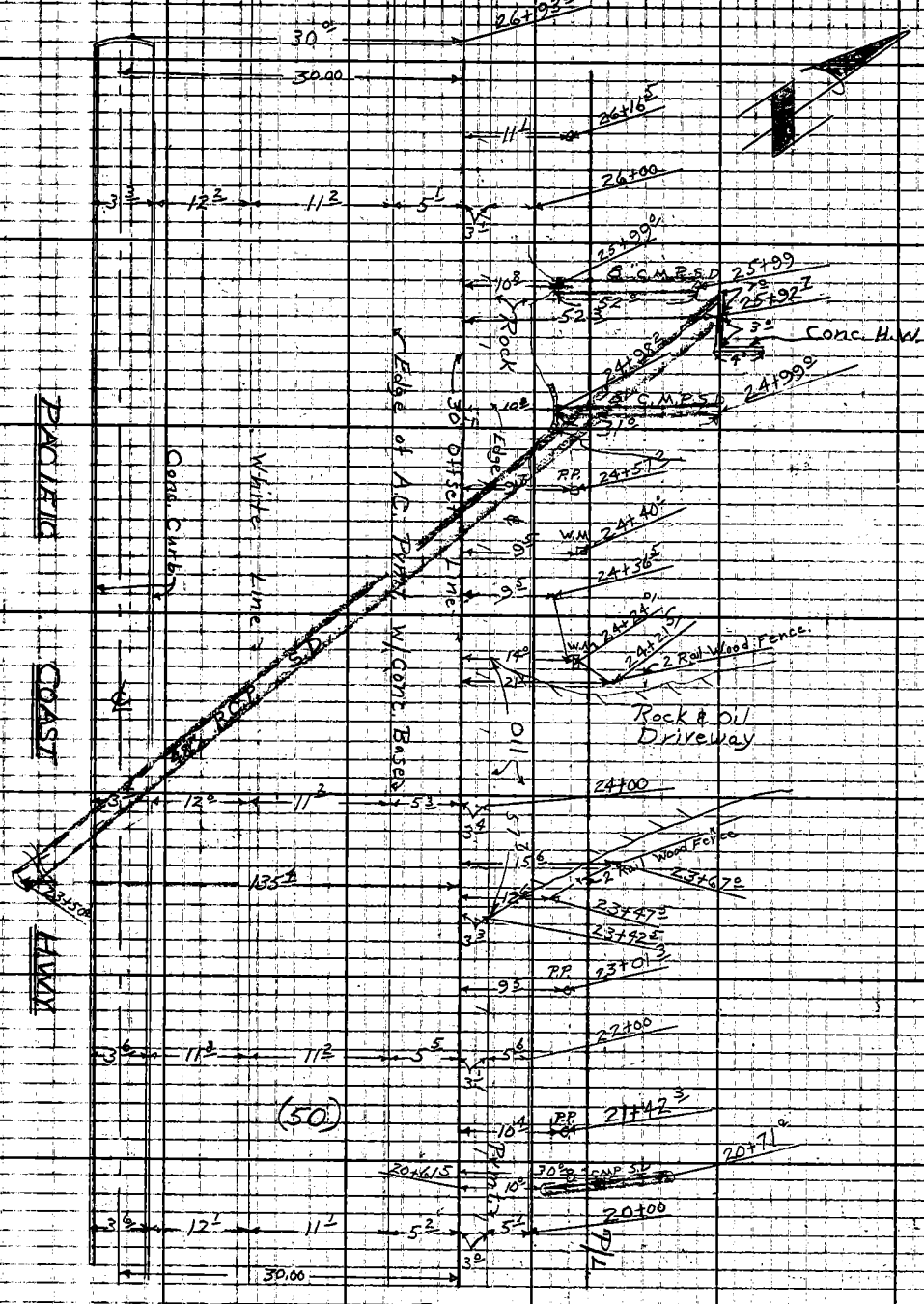
Do not extend notes this side of this line.

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

763098 CE #247 7-53

F.B. 2965 PG. 118

To Bof Pg# 119



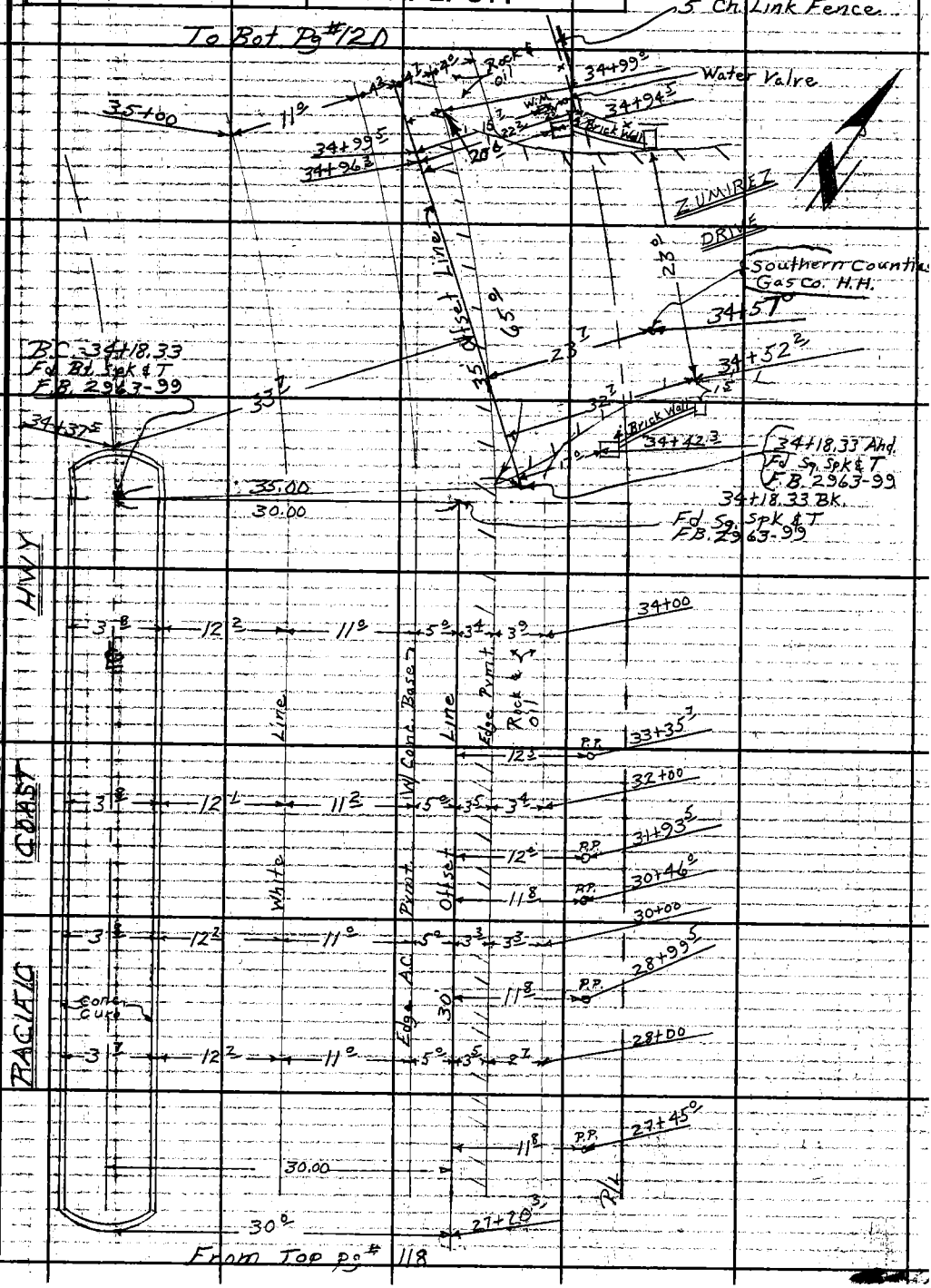
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by	Survey of W.W.D. #29 Water Main Align.
Map No.	JN 5294.31 Tape Std °F
Office Work	Surveyed by Burkholder
Checked	Notes D.L.B. Date 7-17-62
Date	Indexed H. E. OTT

F. B. 2963 PG. 119

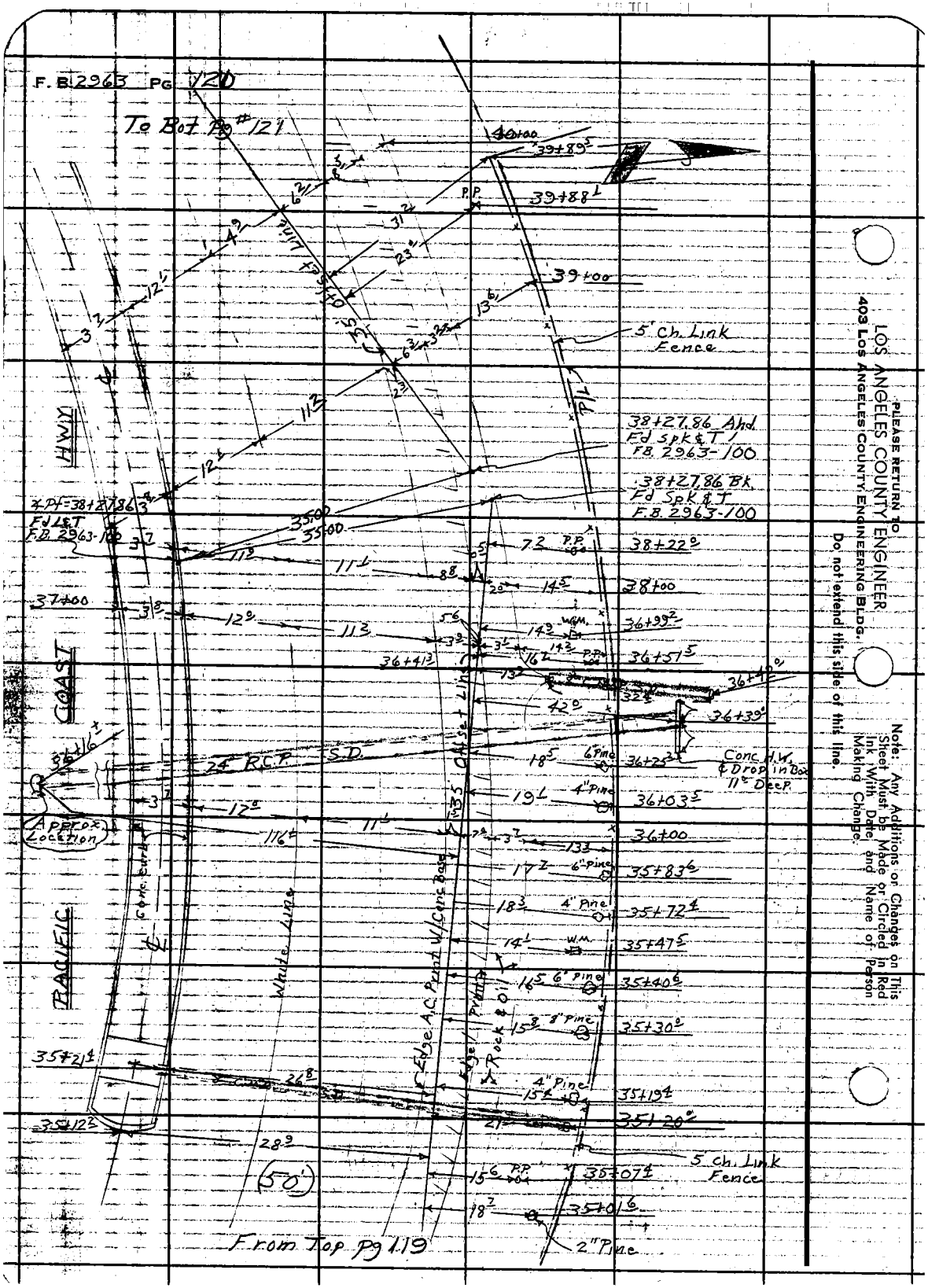


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

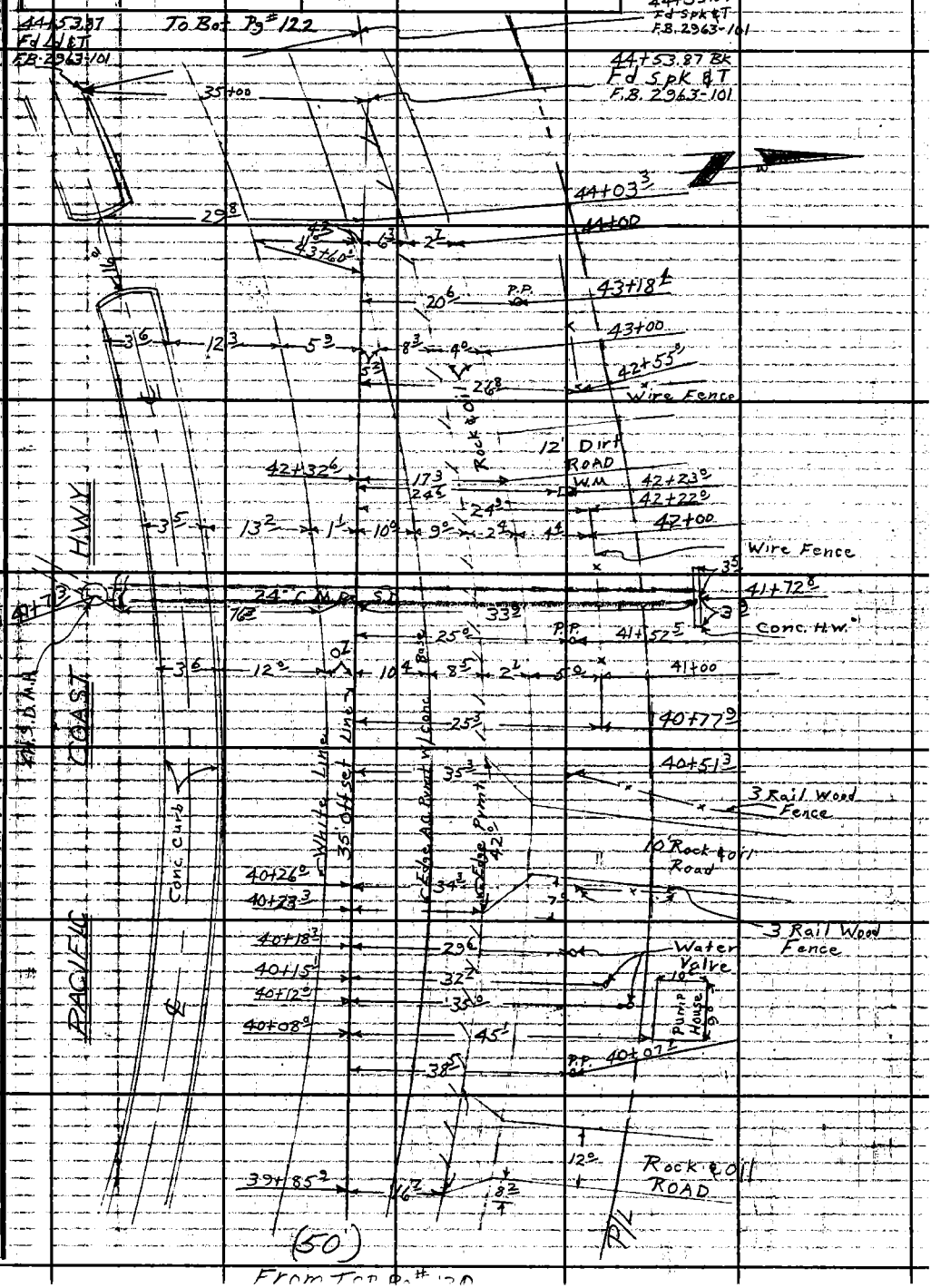
Do not extend this side of this line.

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

76F309S CE # 310 3-61


F. B. 2963 PG 120
To Bot Pg #121
HWY
RACIFIC COAST
5' Ch. Link Fence
38+27.86 Ahd. Fd Spk & T / F.B. 2963-100
38+27.86 Bk. Fd Spk & T F.B. 2963-100
4 Pt = 38+27.86 Fd L&T F.B. 2963-100
24" R.C.P. S.D.
Approx Location
Conc. H.W. & Drop in Box 11" Deep
Conc. Curb
White Line
Edge A.C. Print W/Conc Base
Edge Print
Rock & Oil
(50')
From Top Pg 119
5' Ch. Link Fence
2" Pine
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.
Do not extend this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date, and Name of Person Making Change.

Notes Ck'd by	Survey of W.W.D. #29 Water Main Align	F.B. 2963 PG. 121
Map No.	JN 5294.31 Tape Std °F	
Office Work	Surveyed by Burkholder	
Checked	Notes D.L.B. Date 1-19-62	
Date	Indexed H. E. OTT	



From Top Pg # 120

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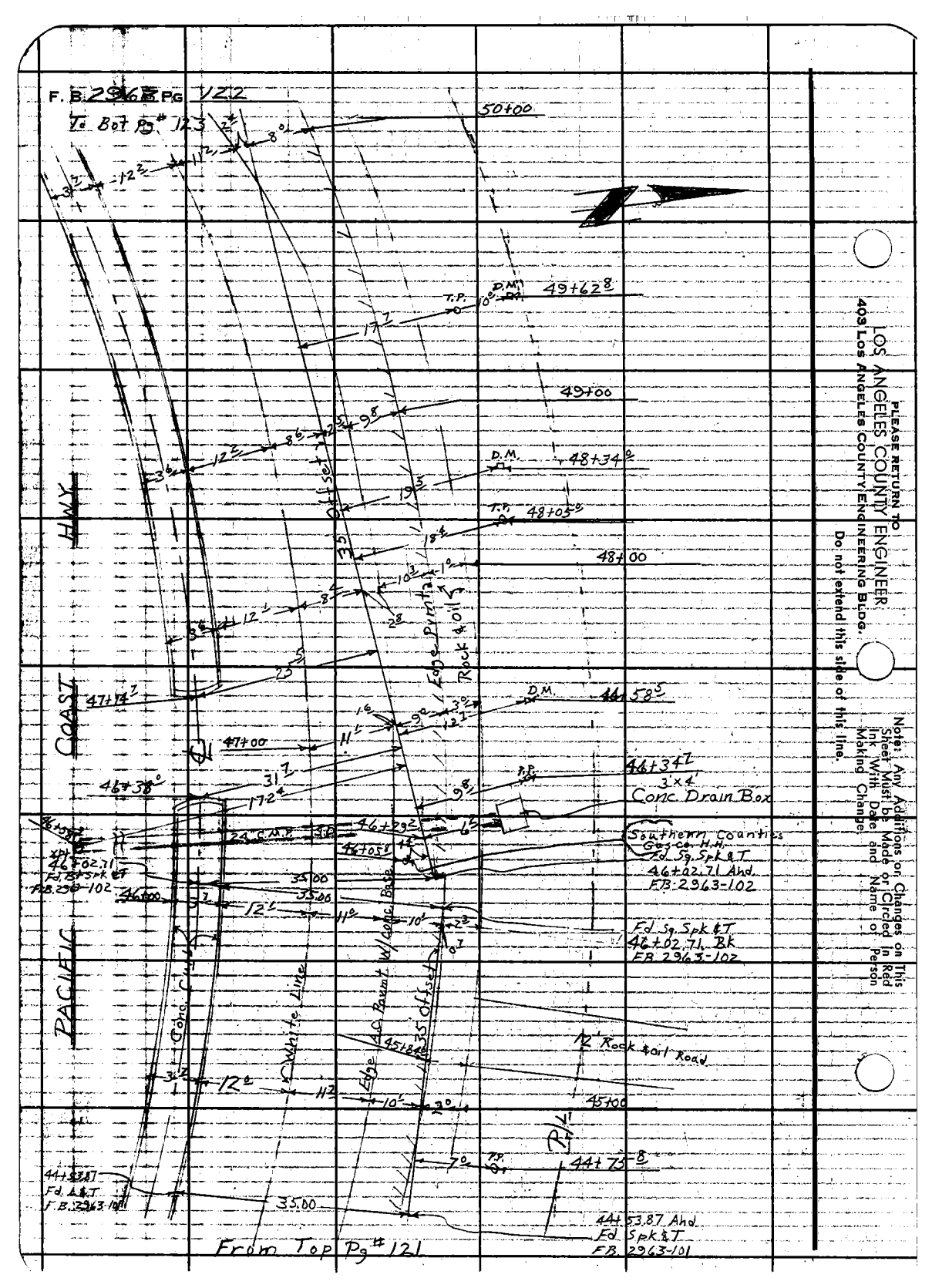
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61

F. B. 2963 Pg 102

Va Bot Pg # 123



From Top Pg # 121

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403 Los Angeles County Engineering Bldg.

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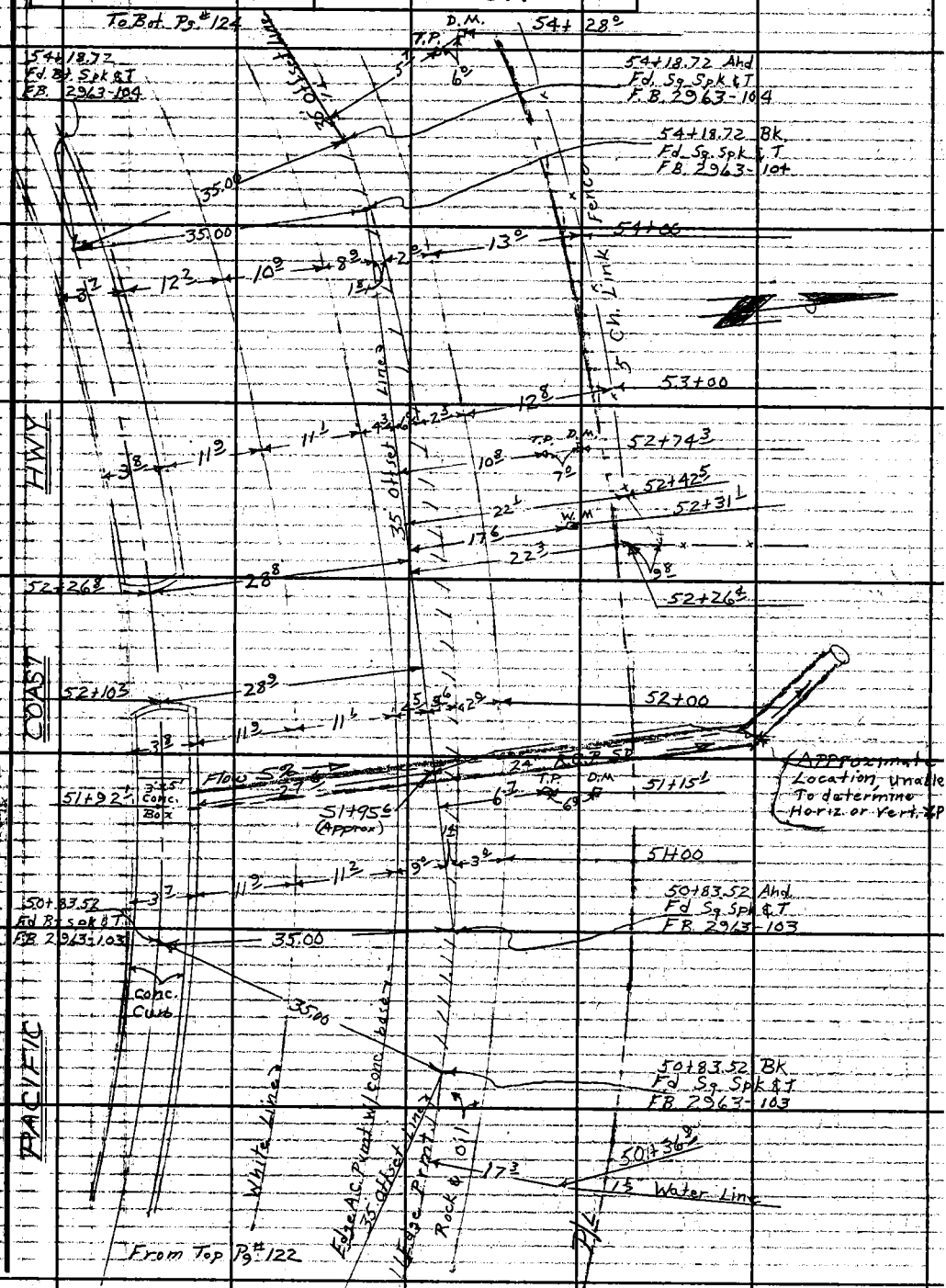
Notes Ck'd by	Survey of W.W.D. #29 Water Main Align.
Map No.	JN 5294.31 Tape Std °F
Office Work	Surveyed by Burkholder
Checked	Notes D.L.B. Date 7-20-62
Date	Indexed H. E. OTT

F. B. 2963 PG. 123



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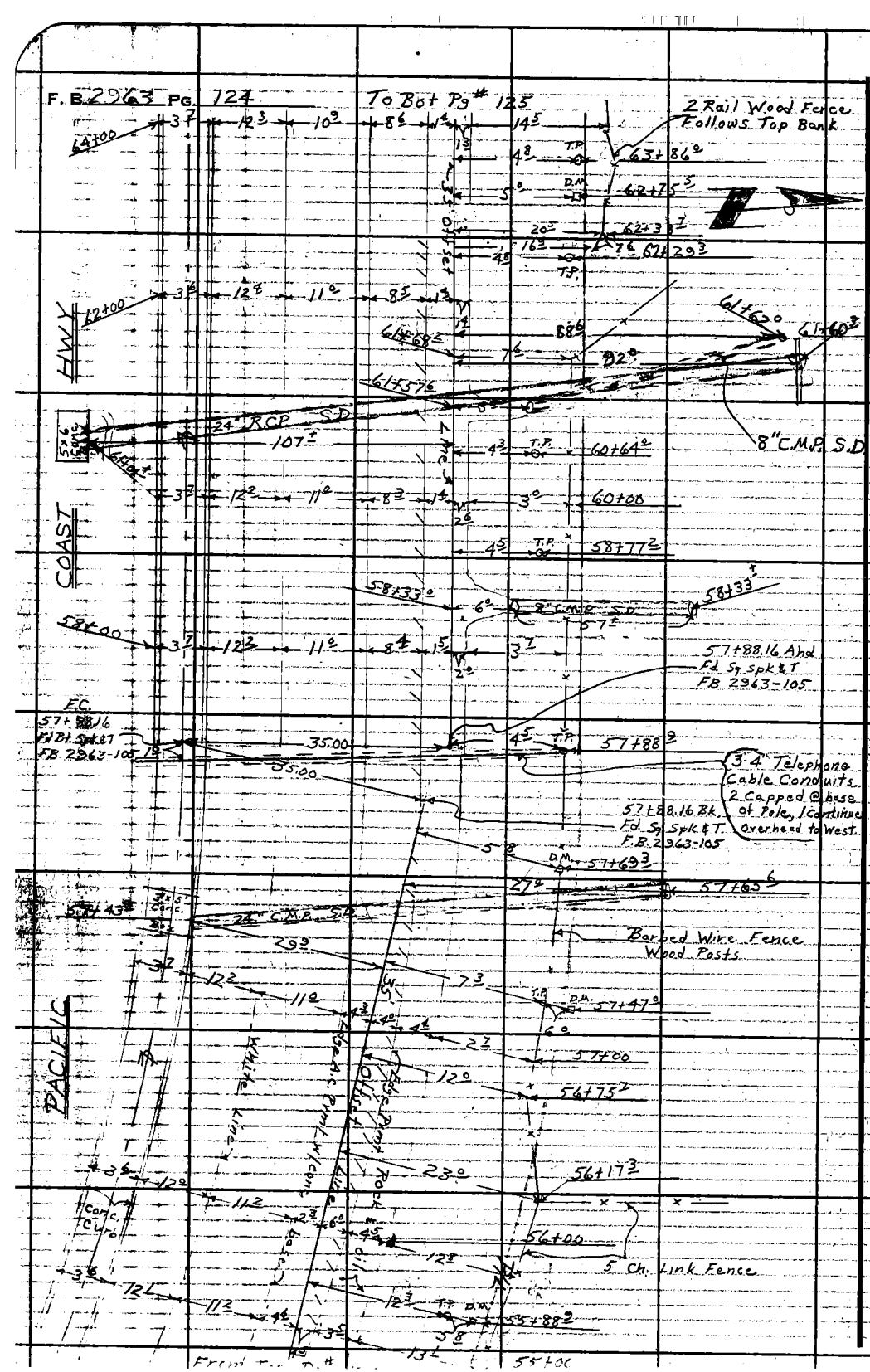
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 GE # 310 3-61

F. B. 2963 Pg. 124

To Bot Pg # 125



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

Survey of W.W.D. #29 Water Main Align.
JN 52943 Tape Std °F
Surveyed by Burkholder
Notes D.I.B. Date 7-10-62
Indexed H. E. OTT

F. B. 2963 Pg. 125

To Bot. Pg. #126

From Top Pg. #124

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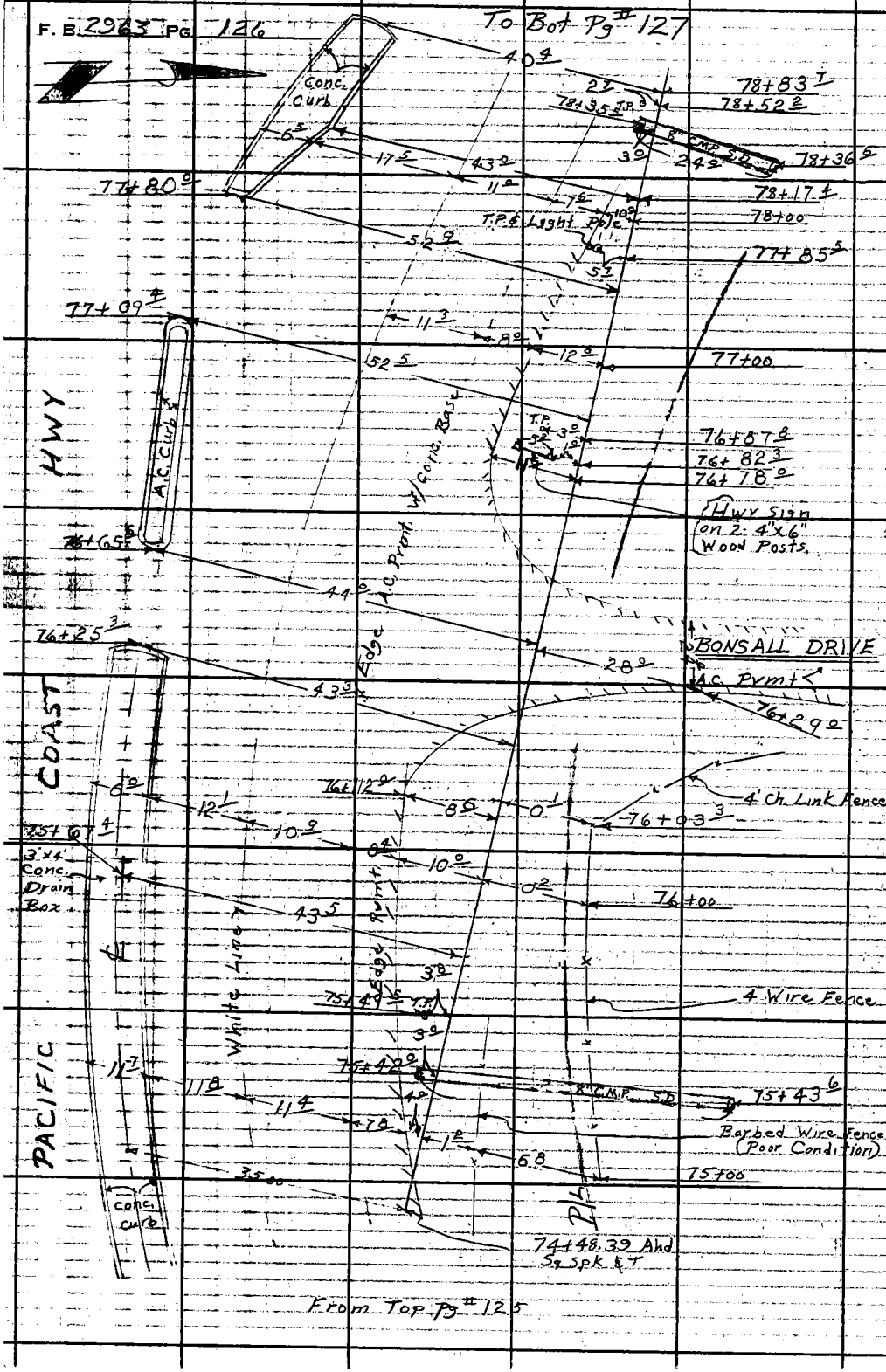
76F308S CE # 310 3-61



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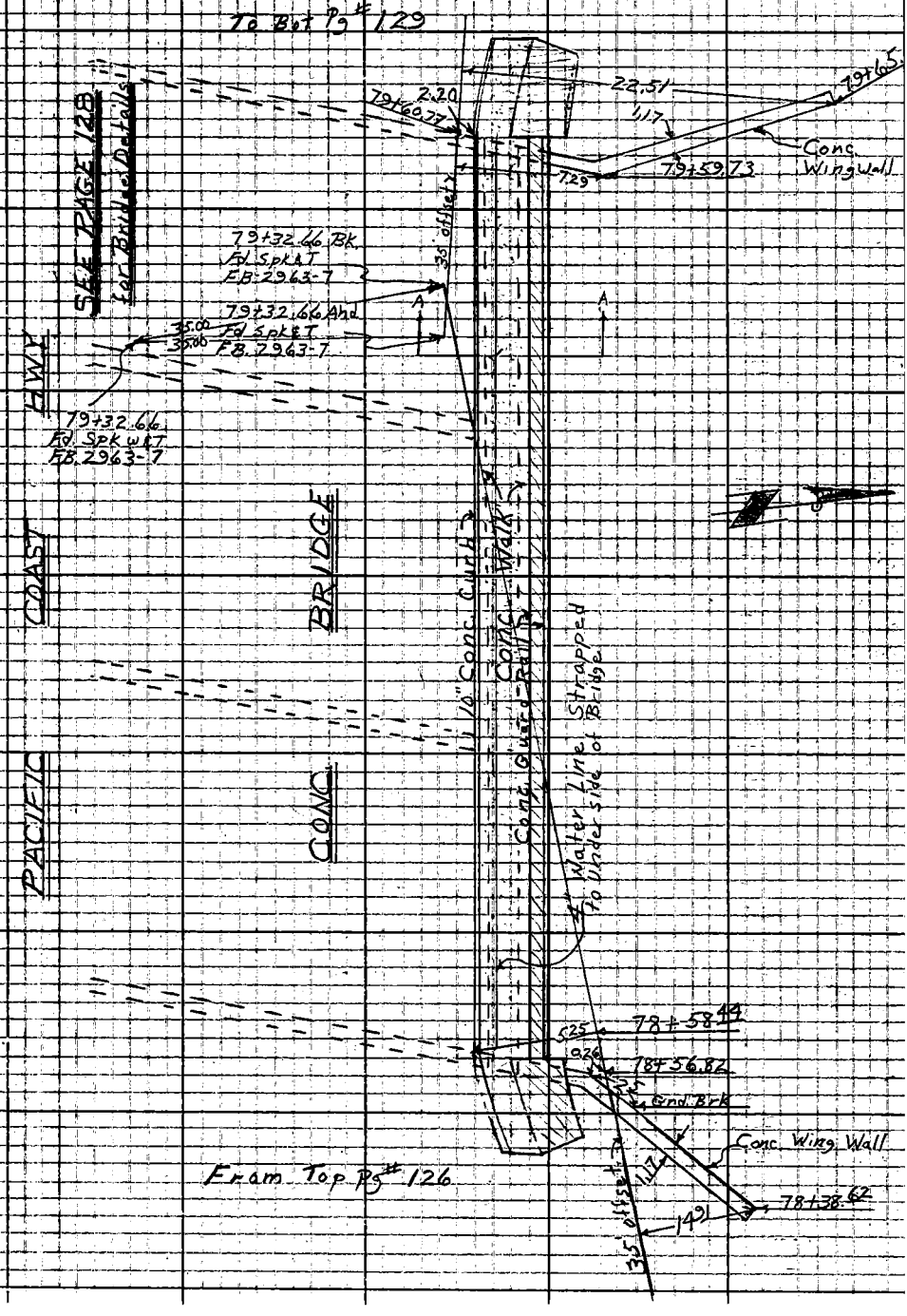
Notes Ck'd by	Survey of W.W.D. #29 Water Main Align.	F.B. 2963 Pg. 121
Map No.	JN 529431 Tape Std °F	
Office Work	Surveyed by Burkholder	
Checked	Notes D.L.B. Date 7-23-62	
Date	Indexed H.E. OTT	



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

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RETURN TO
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763095 CE #247 7-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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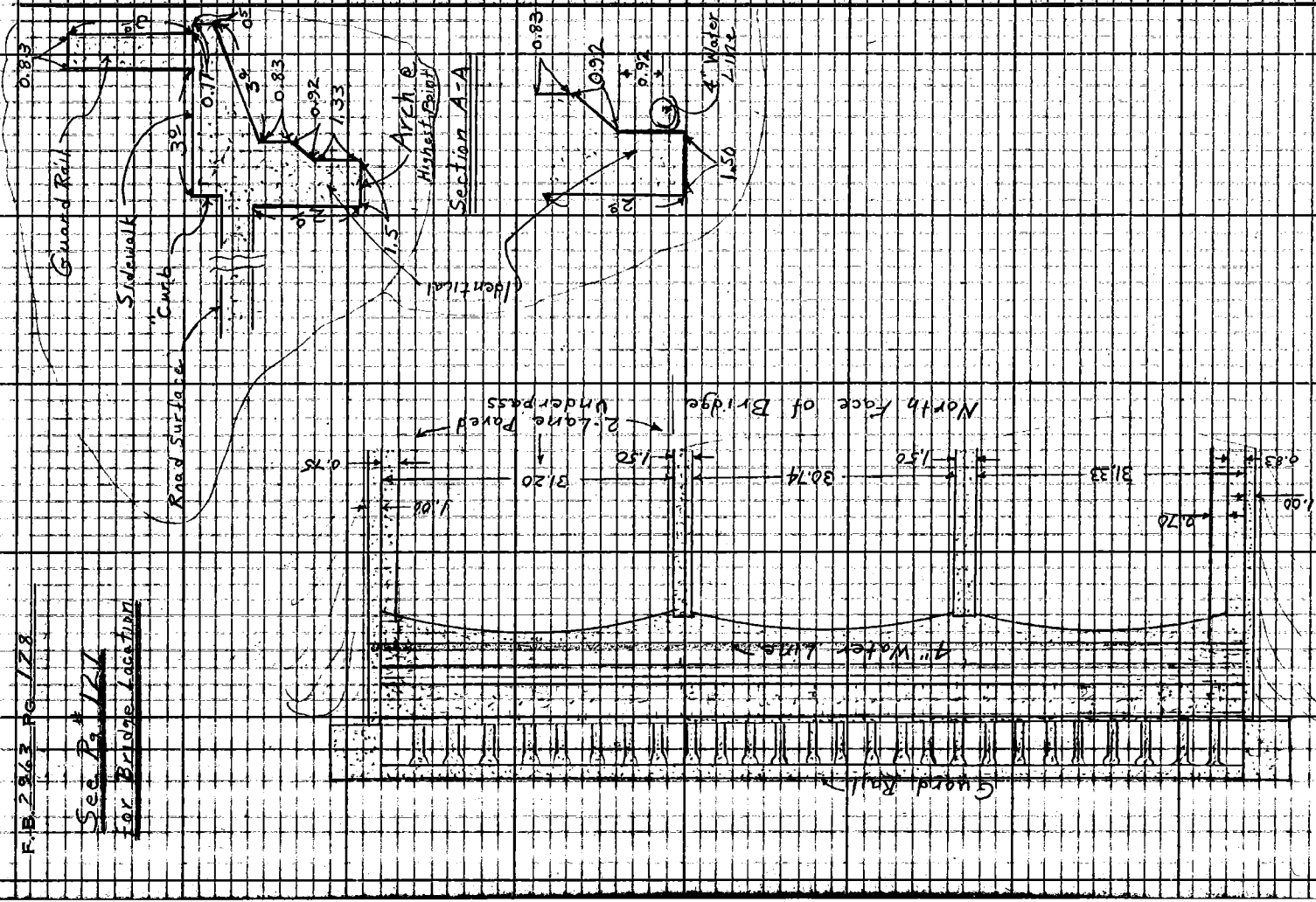


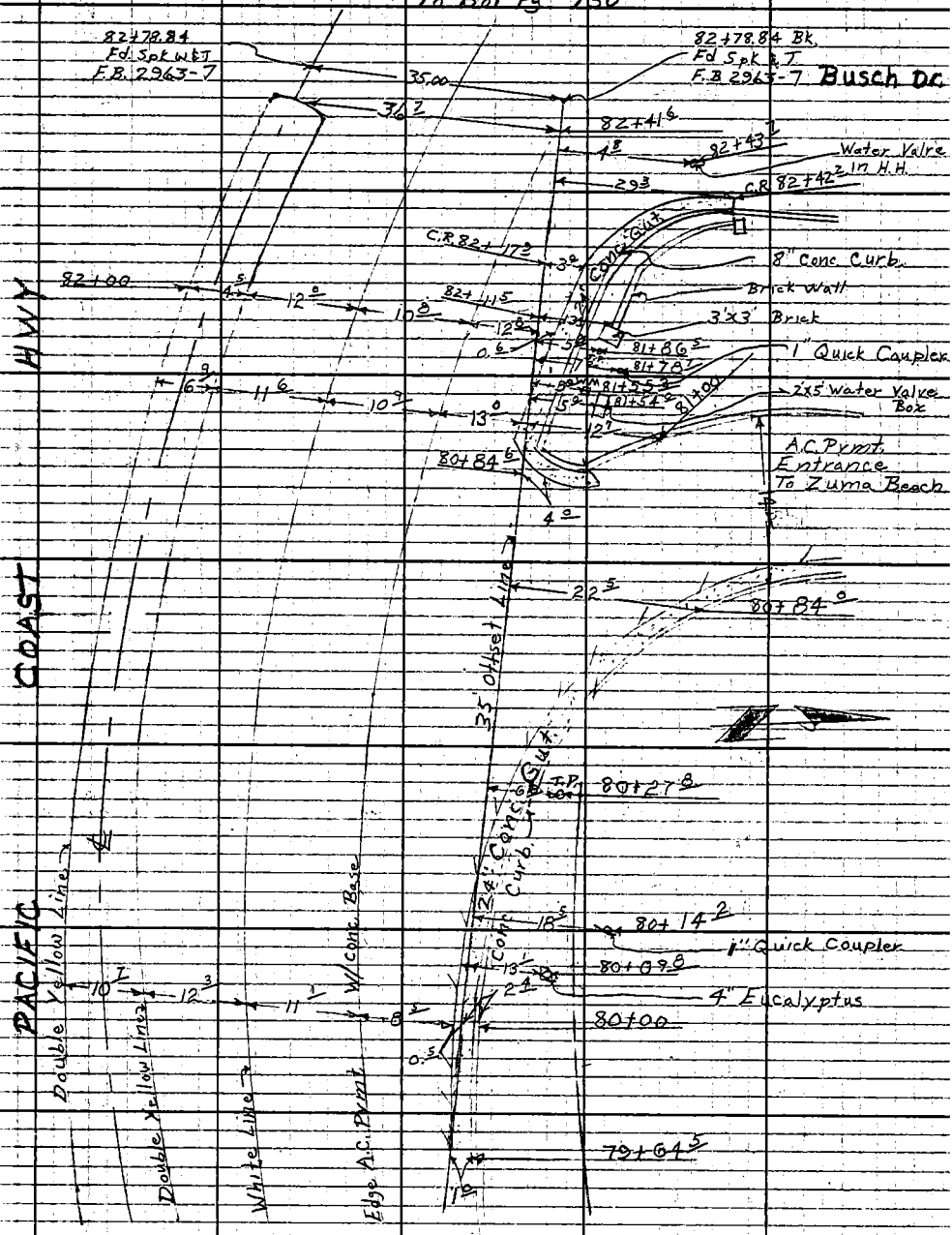
F.B. 2263 Pg. 128

See Pg. 127 for Bridge Location

Notes Ck'd by	Survey of W.W.D. #29 Water Main Align
Map No.	JN 5294.31 Tape Std °F
Office Work	Surveyed by Burkholder
Checked	Notes D.L.B Date 7-24-62
Date	Indexed H. E. OTT

F.B. 2963 PG. 129

To Bot Pg # 130



From Top Pg # 127

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RETURN TO
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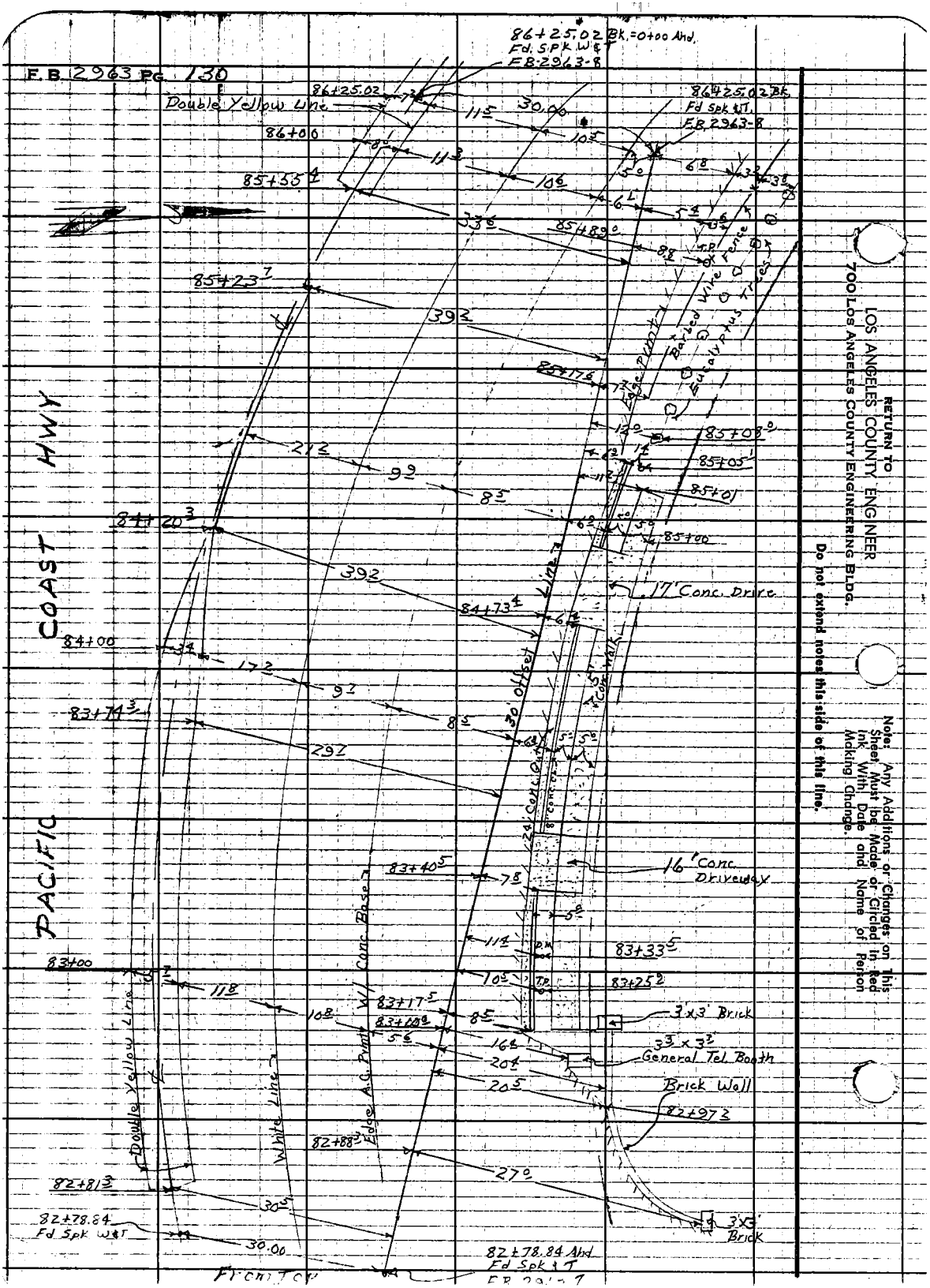
76F309S CE #247—3-57


F.B. 2963 Pg. 130
86+25.02 Bk.=0+00 Ahd.
Fd. Spk W&T
F.B. 2963-8
86+25.02
Double Yellow Line
86+00
85+55
85+23
85+17
85+08
85+05
85+01
85+00
84+20
84+73
84+00
83+74
83+40
83+33
83+25
83+00
83+17
83+10
82+97
82+88
82+81
82+78.84
Fd Spk W&T
82+78.84 Ahd
Fd Spk & T
Barbed Wire Fence
Eucalyptus Trees
Edge Pvmt
30' Offset Line
17' Conc. Drive
16' Conc. Driveway
24' Conc. Out
8' Conc. Out
5' Conc. Walk
3'x3' Brick
3'x3' General Tel. Booth
Brick Wall
3'x3' Brick
Edge A.C. Pvmt W/ Conc. Base
White Line
Double Yellow Line
PACIFIC COAST HWY
From Top
RETURN TO
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Profile No.	Notes Red	Plotted	Job No. 5294.3 Division No. 11	F.B. 2963 Pg. 131
	Date	Date	Survey of WATER MAIN ALIGN.	
X-Sec. No.	Notes Chkd.	Checked	Survey by BOWERS Notes R.C.B. Date 7/62	
	Date	Date	Map No. Indexed H. E. OTT Date AUG 3 '62	

WATER MAIN ALIGNMENT

PACIFIC COAST HIGHWAY

WATER WORKS DIST. #29

FROM ZUMA VIEW DR.

to

ZUMA BEACH ENT.

J.N. 5294.31

July 1962

STATION	B.S.	H.I.	F.S.	ELEV.
			* REF. F.B. 1652 F.B. 1369	

PARTY
BOWERS
LE GAULT
CROWDER
GIEDEMAN

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PLEASE RETURN TO
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76-L298 CE 307 3.61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	⊼L	Rt.
B.M. 48-116				11534	B.M. 48-116 (SOLSTICE CN. A-10, 1950) Pac. Coast Hwy, 0.5 MI. W. of Paradise Cove, & 0.25 MI. E. of Zuma Fire Sta. @ Hwy. Sta 595+47.96 in ctr. of dividing strip. A std. L.A.C. Survey Control Traverse Sta. (1962) Prelim. Elev. = 115.342, F.B. 1369-98		
0+00				11642			⊼L = (CTR Island)
				1642			1.7 Top Curb
				1616			1.9 Bot. "
				1589			25.0 Edge Pavt.
				1562			33.3 Edge Shoulder
				1527			37.8 Paved F.L.
1+00				1687			⊼L
				1671			17.1 Edge Pavt
				1630			25.4 " Shoulder
				1616			Top Premix Drain
				1508			FL " " & Bot.
				1693	5.2 Bot Curb		
				1712	6.1 Top "		
	t.P.			1720	7.7 Ctr Island		

F.B. 2963 PG. 132 Job No. 52943 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of WATER MAIN ALIGN. Date ____ Date ____ No. ____
Survey by BOWERS Notes R.C.B. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed H.E. OIT Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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Profile Notes Red Plotted Job No. 52943 Division No. 11 F.B. 7963 Pg. 133
No. X-Sec. Date Date Survey of WATER MAIN ALIGN.
No. Notes Chkd Checked Survey by Bowers Notes F.C.B. Date 2/62
Date Date Map No. Indexed H. E. O. Date

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	Rt.
1+86.0				1679		28.8 Premix
				1733		29.0 Top Catch Basin
				1371	11733 Top 362 M&S 1137 F.L.	" F.L. 24" C.M.P. S.D.
1+00				1775		TL
				1763		13.8 Edge Pavt.
				1709		21.8 " Shoulder
				1688		Bot Berm
				1911		Top "
				1788	9.5 Bot Curb	
				1809	9.2 Top "	
				1811	11.3 Ctr. Is.	
0+13				1811	9.5 Top Catch Basin	11811 Top 436 M&S 11375 F.L.
				1375	" F.L. 24" C.M.P. S.D.	
0+00				1871		TL
				1857		15.0 Edge Pavt.
				1791		23.4 " Shoulder
				1768		Bot Berm
				1859		Top "
				1883	9.2 Bot Curb	
				1901	9.4 Top "	
				1906	11.0 Ctr. Is.	

76-L298 CE 307 3-61

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F.B. 2963 Pg. 134 | Job No. 52443 | Division No. 11 | Notes Red | Plotted | Profile
Survey of Water Main Alley | Date | Date | No.
Survey by Bowers | Notes | Notes Chkd. | Checked | X-Sec.
Indexed H.F. Ott | Date | Date | Date | No.

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
4+00				1197.5		TL	
				1954			18.4 Edge Pavt.
				1916			26.9 " Shoulder
				1897			29.0 Bot Berm
				198			31.0 Top "
				1984	4.8 Bot. Curb		
				1996	5.4 Top Curb		
	T.P.			12022	6.9 ctr. Is.		
5+00				2075		TL (Bot Curb)	
				2052			23.5 Edge Pavt.
				2008			31.7 " Shoulder
				199			34.0 Bot berm
				211			36.0 Top "
				2093	0.6 Top Curb		
				2129	4.1 ctr. Is.		
6+00				2161		TL	
				2149			15.2 Edge Pavt.
				2097			23.1 " Shoulder
				208			26.0 Bot berm
				216			28.0 Top "
				2172	12.3 Bot Curb		

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	Rt.
6+00				12220	12⁵ Top Curb	
				12237	14⁵ Ctr Is.	
6+16⁰			Hand Level →	98.00	98⁰ F.L. 24" R.C.P. S.D.	
6+48⁰				12021		26⁰ (F.L.) 8" C.M. S.D.
+50⁶				11522		38⁵ F.L. 24" R.C.P. S.D.
+55⁵				2012		26⁴ F.L. 8" C.M. S.D.
+00				2252		↗L
				2242		12¹ Edge Pavt.
				2185		20² " Shoulder
				215		22⁰ Bot. berm
				228		24⁰ Top "
	T.P.			12285	21³ Pavt bet. dividers	
+00				2356		↗L
				2346		13⁶ Edge Pavt.
				2267		23⁴ " Shoulder = Bot. berm
				234		25⁰ Top berm
				2383	21³ Pavt. bet dividers	
+00				2491		↗L
				2477		16⁷ " Edge Pavt.
				2422		26⁷ " Shoulder = Bot berm
				250		30⁰ Top berm

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.3 Division No. 11 F.B. 2963 Pg. 135
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN AVIEN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OH Date ____

76-L298 CE 307 3-61

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F. B. 2963 Pg. 136 | Job No. 5294.3 | Division No. 11 | Notes Red | Plotted | Profile
Survey of WATER MAIN ALIGN. | Date | Date | No.
Survey by POWERS | Notes R.C.B. | Notes Chkd. | Checked | X-Sec.
Indexed IHE. OFF | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	℄	Rt.
9+00				12509	16⁶ Pav't		
10+00	T.P.			2693			TL (Island)
				2680			15 Top Curb
				2660			17 Bot "
				2636			25½ Edge Pav't.
				2547			36½ " Shoulder
				252			40° Bot. 6' Cut.
11+00				2834			TL
				2820			16⁸ Edge Pav't
				2740			25³ " Shoulder
				2702			29° Bot 10' Cut
				2839	6³ Bot Curb		
				2861	6⁵ Top "		
				2893	10½ Ctr Is.		
12+00				3001			TL
				2991			13⁰ Edge Pav't.
				2929			21⅛ " Shoulder
				289			25.° Bot Cut
				3125	13⁰ Ctr. Pav't		

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
B.M. 48-117				13007	B.M. 48-117 (SOLSTICE CANYON A-10A) Pac. Coast Hwy, W. of Zumirez Dr., 42' So. of ℄ & 42' N.W. of the N.W. Cor of L.A.C. Zuma Fire Station, Eng. C. #71. A Std. L.A.C. Survey Control Traverse Sta. Mon. in well & Cover F.B. 1369-99 1962 Prelim Elev = 130.054		
3+00				13183		TL	
				3163			13° Edge Pavt.
				3116			21⁴ " Shoulder
				306			28° Bot Cut
				3188	10² Bot curb		
				3209	" Top "		
	T.P.			3243	12⁷ Ctr. Is.		
4+00				3365		TL	
				3343			17³ Edge Pavt.
				3306			25⁹ " Shoulder
				328			32° Bot Cut
				3368	6° Bot Curb		
				3387	" Top "		
				3395	7⁸ Ctr. Is.		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 PG. 137
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

76-L298 CE 307 3-61

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F. B. 2963 Pg. 38 | Job No. 52943 | Division No. 11 | Notes Red | Plotted | Profile
Survey of Water Main Alignment | Date | Date | No.
Survey by Bowers | Notes C.C.B. | Notes Chkd. | Checked | X-Sec.
Indexed H.E.O. | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	Rt.
15+00	T.P.			13567		TL
				3525		26° Edge Pavt.
				3491		34.5 " Shoulder
				3427		42.1 Bot Cut
				3560	NOTE →	1.3 top Cb
				3540		" bot Cb.
16+00				13724		TL
				13701		16.4 Edge Pavt.
				13642		25.4 " Shoulder
				13710		27° B-t. Berm
				13720		29° Top "
				13725	7° Bot Curb	
				13737	" Top "	
				13741	8.8 Ctr. Is.	
16+48°		Hand Level		970	121° F.L. 24" R.C.P. S.D.	
16+91.3		"	"	1060		78.3 F.L. 24" R.C.P. S.D.
17+00				13896		TL
				13872		12.8 Edge Pavt.
				13789		21.3 " Shoulder
				1376		23° Bot Berm
				1389		25.2 Top "
				13898	10.7 Bot Curb	

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	TL	Rt.
17+00				13907	10^{1} Top Curb		
				13911	12^{2} Ctr. Is.		
18+00				14076		TL	
				14059			12^{9} Edge Pavt.
				13991			21^{3} " Shoulder
				1394			30^{0} Bot Cut.
				140 82	10^{1} Bot Curb		
				141 01	Top "		
				141 02	12^{2} Ctr. Is.		
19+00				142 56		TL	
				142 32			17^{0} Edge Pavt.
T.P.				141 79			25^{5} " Shoulder
				141 3			31^{0} Bot Cut
				142 64	6^{1} Bot. Curb		
				142 82	Top "		
				142 83	7^{9} Ctr. Is.		
B.M. 48-118				144 15	B.M. 48-118 (Dume Pt. L-10, 1950)		
					Pac. Coast Hwy. 0.12 Mi. W. of Zuma Fire Sta. on ℄		
					B.C. Hwy. Sta. 575+00.49 in Hwy. Dividing Strip in Well		
					A Std. L.A.Co. Sur. Control Traverse Sta. F.B. 1369-100		
				144 12	1962 Prelim. Elev. = 144.115		

Profile Notes Red ____ Plotted ____ Job No. 5294.3 Division No. 11 F.B. 2963 Pg. 139
No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
X-Sec. Notes Chkd. ____ Checked ____ Survey by POWERS Notes R.C.B. Date 7/62
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
EC. 19+96.63	Note. X-Sections			143 77		TL	
	taken on 30' offset			144 06			3° Edge Shoulder
	line Sta. 19+96.63 to 34+18.33			143 20			11° Bot Cut
				143 55	5² Edge Pavt.		
				144 28	28⁴ Bot Curb		
				144 46	Top "		
				144 55	30° Ctr. Is (Flush)		
20+61⁵				144 26			F.L. 8" C.M.P. S.D.
21+00				145 44			3° Edge Shoulder
				145 0			8⁵ Bot Cut
				145 85	5³ Edge Pavt.		
				146 11	28⁵ Bot Curb		
				146 32	Top "		
				146 37	30° Ctr. Is		
22+00				147 26			3° Edge Shoulder
				147 0			8⁵ Bot Cut
				147 67	5³ Edge Pavt		
				147 90	28⁵ Bot Curb		
				148 13	Top "		
T.P.				148 18	30° Ctr. Is.		

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red Date Notes Chkd. Date
Job No. 5294.31 Division No. 11
Survey of WATER MAIN ALIGN.
Survey by BAKER Notes R.C.B.
Indexed H.E. OTT Date
E.B. 2963 PG. 140

76-L298 CE 307 3-61

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8 18

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	30' off TL	Rt.
23+00				148 90			3³ Edge Shoulder
				148 6			10⁰ Bot Cut
				149 48	5⁴ Edge Pavt.		
				149 46	28⁵ Bot Curb		
				149 67	Top "		
				149 70	30⁰ Ctr. Is.		
24+00				150 92			3⁴ Edge Shoulder
				151 23			15³ Premix drive
				151 22	5³ Edge Pavt.		
				151 42	28⁵ Bot Curb		
				151 60	Top "		
				151 67	30⁰ Ctr. Is.		
4+98²				152 12			10⁸ F.L. 8" C.M.P. S.D.
5+00				153 18			3³ Edge Shoulder
				152 92			5³ Bot. berm
				153 5			10³ Top "
				153 52	5² Edge Pavt.		
				153 85	28⁵ Bot Curb		
				154 07	Top "		
T.P.				154 07	30⁰ Ctr. Is.		

Profile No. ___ Notes Red ___ Plotted ___ Job No. 52943 Division No. 11 F.B. 2963 Pg. 149
X-Sec. No. ___ Date ___ Date ___ Survey of WATER MAIN AVEN.
Notes Chkd. ___ Checked ___ Survey by BOWERS Notes R.C.B. Date 7/62
Date ___ Date ___ Map No. ___ Indexed H. F. OTT Date ___

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	30' off TL Rt.
25+99.0				155 18		10.2 F.L. 8" C.M.P. S.D.
26+00				156 10		3.1 Edge Shoulder
				155 8		10.2 Bot berm
				157 0		11.0 Top " & Fill
				156 51	5.1 Edge Pavt.	
				156 95	28.5 Bot Curb	
				157 07	Top "	
				157 09	30.0 ctr. Is.	
23+50.0		Hand Level Pick up		110.9	135.1 F.L. 48" R.C.P. S.D.	
25+92.7		" " Hand Level		122.0		64.6 F.L. 48" R.C.P. SD
27+00				159 35		3' Edge Shoulder
				158 0		10.8 Bot. Berm
				160 5		Top "
				159 87	5.1 EDGE PAVT	
				160 20	30 CTR. BAVE BET. IS	

F. B. 2963 PG 112
Job No. 52943 Division No. ____ Notes Red ____ Plotted ____ Profile
Survey of WATER MAIN ALIGN. Date ____ Date ____ No. ____
Survey by [illegible] Notes R.C.B. Notes Chkd. ____ Checked ____ X-Sec.
Indexed H.F. OLL Date ____ Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	30' OFF	Rt.
28+00	TP			162 69			3° Edge Shoulder
				1622			10° Fl.
				16324	5° Edge Pavt.		
				16343	28° Bot. Curb.		
				163.71	top. "		
				16373	30° Ctr. Is.		
29+00				16595			3.5° Edge Shoulder
				165 10			10° Bot. Cut.
				16651	5° Edge Pavt.		
				16669	28° Bot. Curb.		
				167 00	top. "		
				16706	30° Ctr. Is.		
30+00				16914			3.3° Edge Shoulder
				1686			6.6° Bot. Cut.
				16973	5° Edge Pavt.		
				17004	28.2° Bot. Curb.		
				17031	11 top. "		
1+				170 35	30° Ctr. Is.		

Profile Notes Red ____ Plotted ____ Job No. 22442 Division No. 11 F. B. 2263 Pg. 145
No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
X-Sec. Notes Chkd. ____ Checked ____ Survey by POWERS Notes E.C.B. Date 7/62
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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F. B. 2968 Pg. 144 Job No. 52943 Division No. // Notes Red ____ Plotted ____ Profile ____
Survey of WATER MAIN ALIGN. Date ____ Date ____ No. ____ X-Sec. ____
Survey by POWERS Notes R.C.B. Notes Chkd. ____ Checked ____ No. ____
Indexed H. E. Ott Date ____ Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Lt. 30'	Rt.
31+00				17251		3° Edge S Houlder
				721		6° Bot. Cut.
				7305	5° Edge PAvt.	
				7339	28° Bot. Curb.	
				7364	" top "	
				7370	30° Ctr. Is.	
32+00				7589		3° Edge S Houlder
				754		6° Bot. Cut.
				7640	5° Edge Pavt.	
				7673	28° Bot. Curb.	
				7700	" top "	
	T.P.			17709	30° Ctr. Is.	
33+00				7915		3° Edge S Houlder
				788		6° Bot. Cut.
				7964	5° Edge Pavt.	
				7993	28° Bot. Curb.	
				8022	" top "	
				8025	30° Ctr. Is.	

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Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 5294-1 Division No. 11
X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of WATER MAIN ALIGN.
Survey by BOWERS Notes R.C.B. Date 7/62
Map No. ____ Indexed ____ Date ____
F. B. 2963 Pg. 145

STATION	B. S.	H. I.	F. S.	ELEV.	L.E.	30' offset	R.E.
34+00				18266			3½ Edge Shoulder
				8271			7½ Bot. Cut.
				8321	5º Edge Pavt.		
				8323	23½ Bot Curb.		
				8352	11 Top "		
	T.P.			18353	30º Cen. Is.		
35+00				8635			5º Edge Shoulder
	Note: Sta 35+00 to			8630			7º F.L. Pavt.
	82478 84 taken from 35' offset line			8682			9º Edge "
				8687	5º Edge Pavt.		
				8656	30º Cent Is.		
35+20º				8367			21½ F.L. 8" C.M.P. S.D.
5+21½				18758	26º Top C. Basin in Is.		
"				8428	" F.L. 8" C.M.P. S.D.		
6+00				8957	R of 18758 = 3.30		7º Edge Shoulder
				892	F.L. 18428		11½ Bot Berm
				897			13º Top "
				8995	1½ Edge Pavt		
				8976	24½ Bot Curb		
				8997	11 Top "		
	T.P.			19004	26½ Cen Is		

Note: 30' offset line

F. E. OTT Date

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F. B. 27963 Pg. 146 Job No. 52943 Division No. 11 Notes Red Plotted
Survey of WATER MAIN ALIGN Date Date
Survey by R.C.B. Notes Notes Chkd Checked
Indexed T.E.O.H. Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	35' off ℄ Rt.
36+16±	Note / Hand Level			16700	116± 24" R.C.P. S.D.	
36+37				17097		42e F.L. 24" R.C.P. S.D.
36+41.3				19005		139 F.L. 8"C.M.P. S.D.
37+00				9270		5e Edge Shoulder
				924		10e Bot berm
				935		12e Top "
				9317	3e Edge Pavt.	
				9307	27L Bot Curb	
				9329	" Top "	
				9329	29e Ctr. Is.	
38+00				955		4L Bot. berm
				962		4e Top "
				9578	0e Edge Shoulder	
				9626	9.3 " Pavt	
				9605	32.3 Bot Curb	
				9626	" Top "	
				9628	34L Ctr. Is.	
B.M. 48-120				19635	B.M. 48-120 (Dum. Pk. L-10A 1950)	
					Pac. Coast Hwy, 0.5 M. West of Zuma Fire St.	
					38e N. of Approx ℄ A. Std. L.A.C. Surv. Control Trav. Sta	
					1962 Prelim. Elev. = 196.3 ±3, F.B. 1269-102	

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Profile No. ____ Notes Rod ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2763 Pg. 149
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN
Notes Chkd ____ Checked ____ Survey by Bowers Notes F.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H.E.O.T. Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	35' off ℄	Rt.
39+00				19835			6 3 Edge Shoulder
				9880			11 Bot berm
				988			12 Top "
				9872	2 3 Edge Paut		
				9860	25 Bot Curb		
				9880	" Top "		
				9877	27 Ctr. Is.		
10+00				20052			6 2 Edge Paut
				0028			14 2 " Shoulder
				0120			30 Paut in driveway
				0034	17 Bot Curb		
				0056	" Top "		
				0062	18 Ctr Is.		
11+00				0182			10 4 Edge Paut
				0130			18 " Shoulder
				0120			21 Bot berm
				021			22 Top "
				0164	12 2 Bot Curb		
				0185	" Top "		
		T.P.		20186	14 5 Ctr. Is.		
11+71 3				0206	76 3 Top S.D. M.H.		top 20206
"				19089	" Ex. 24" C.M.P. S.D.		MCAS 11.17
							℄ 19089

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	35' off TL Rt
41+72.8				19735		33.9 F.L. 24' C.M.P. S.D.
42+00				20238		10.0 Edge Pavt.
				0199		19.0 " Shoulder
				018		22.5 Bot. berm
				027		23.5 Top "
				0215	14.3 Bot Curb	
				0235	" Top "	
				0236	16.1 ctr. Is	
43+00				0247		5.2 Edge Pavt.
				0214		13.5 " Shoulder
				018		18.0 Bot. Cut
				0227	18.2 Bot. Curb	
				0244	" Top "	
				0243	20.0 Ctr. Is.	
44+00				0140		6.3 Edge Shoulder
				013		9.8 Bot. Cut
				0199	4.2 Edge Pavt.	
				0176	Ctr. Pavt. bet. Is	

F. B. 2963 PG. 148 Job No. 52943 Division No. 11 Notes Checked Date Date No. Profile
Survey of WATER MAIN ALIGN. Date Date No. X-Sec.
Survey by POWERS Notes R.C.B. Notes Chkd. Checked
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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	35 off TL	Rt.
B.M. 18-121				20060	BM L-10B (Dume Pt. L-10B, 1950) Pac. Coast Hwy., 240'± E. of Heathercliff Rd. 38⁶ No. of L&T in No. Curb of Hwy Divider. A. Std. L.A.Co. Survey Control Traverse Station. F.B. 1369-103 1962 Prelim Elev. = 200.639		
15+00				20037			TL = Edge Shoulder
				001			4° Bot. Cut
				0096	10¹ Edge Pavt.		
				0065	33³ Bot. Curb		
				0088	" Top Curb		
				0089	35¹ Ctr. Is.		
6+00				19871			0² Edge Pavt.
				985			5° Bot. Cut
				9924	10¹ Edge Pavt.		
				9905	33² Bot. Curb		
				9921	" Top Curb		
				9920	35° Ctr. Is.		
6+29²				9851	top 19851 MCAS 3.69		6² Top Catch Basin
				9482	F.L. 194.82		" F.L. 24" C.M.P. S.D.
6+58³				9282	172⁴ F.L., 24" C.M.P. S.D.		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5294.31 Division No. 11 F.B. 2963 Pg. 149
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H.F. OTT Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt.	35' 10 ft L	Rt.
47+00				19650			9° Edge Shoulder
				962			12° Bot. Cut
				9695	1⁶ Edge Pavt.		
	T. P.			19669	26² Ctr. Pavt. bet. Is.		
48+00				9407			2⁸ Edge Pavt.
				9354			13¹ " Shoulder
				932			15° Bot Cut
				9391	20⁵ Bot Curb		
				9407	" Top "		
				9411	22³ Ctr Is.		
49+00				9073			2⁵ Edge Pavt.
				9010			12³ " Shoulder
				900			18° Bot. Cut
				9046	20⁸ Bot Curb		
				9067	" Top Curb		
	T. P.			19071	22⁶ Ctr. Is.		
50+00				8613			8° Edge Shoulder = Bot Berm
				871			9° Top berm
				870			13° Bot Cut
				8672	2⁴ Edge Pavt.		
				8660	25⁸ Bot Curb		

F. B. 2963 PG. 150
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by Bowers Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	35' off TL Rt.
50+00				18676	Top Curb	
				8682	27⁶ Ctr. Is.	
51+00				8155		1⁴ Edge Shoulder
				818		5⁵ Bot berm
				820		6⁵ Top "
				8199	9⁰ Edge Pavt.	
				8180	32¹ Bot Curb	
				8198	" Top "	
	T.P.			18207	33⁹ Ctr. Is.	
51+92¹				7735	27⁶ Top Catch Basin	top 187.35 MEAS 5.31 FL 182.04
				7204	F.L. 24" C.M.P. SD. 5% Fall to No.	
51+95⁶	Note: Due to Gr Brk, Cannot get F.L. Elev to No.					TL = 24" C.M.P.
52+00				7637		5⁶ Edge Shoulder
				762		9⁰ Bot berm
				772		10⁰ Top "
				7685	4⁵ Edge Pavt.	
				7660	27⁵ Bot. Curb	
				7691	" Top "	
	T.P.			17698	29⁴ Ctr. Is.	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 5294.31 Division No. 11 F.B. 2963 PG. 151
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	35' off ℄	Rt.
B.M. 48-123				17417	B.M. 48-123 (Dume Pt. K-10, 1950)		
					Pac. Coast Hwy, 0.5 Mi. N.E. of Zuma Creek		
					Bridge, 78° N'ly of Approx ℄. A Std. L.A.Co.		
					Survey Control Traverse Station. F.B. 1369-104		
					1962 Prelim Elev. = 174.167		
53+00				17081			6° Edge Shoulder
				703			9.5 Bot. berm
				713			10.3 Top "
				7124	4.3 Edge Pavt		
				7100	27.3 Bot Curb		
				7118	" Top "		
	T.P.			17127	29.2 Ctr. Is.		
54+00				6495			1.8 Edge Shoulder
				645			4.5 Bot. berm
				652			5.5 Top berm
				6529	8.9 Edge Pavt		
				6496	32.0 Bot Curb		
				6517	" Top "		
	T.P.			16521	33.8 Ctr. Is.		

F.B. 2963 PG. 152 Job No. 5294.31 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by BOWERS Notes RCB Notes Chkd. Checked X-Sec.
Indexed H.E. OTT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' off ℄	Rt.
55+00				15870		4.5 Edge Shoulder
				583		10.0 Bot berm
				589		11.0 Top "
				5913	4.6 Edge Pavt.	
				5891	27.9 Bot. Curb.	
				5911	" Top "	
	T.P.			15913	29.7 Ctr. Is.	
56+00				5288		6.0 Edge Shoulder.
				523		11.5 Bot. berm.
				531		12.5 Top. "
				5322	2.3 Edge Pavt.	
				5296	25.5 Bot. Curb.	
				5313	" Top. Curb.	
	T.P.			15320	27.3 Ctr. Is.	
57+00				4684		4.0 Edge Shoulder
				462		9.0 Bot berm
				474		10.0 Top "
				4725	4.3 Edge Pavt.	
				4682	27.5 Bot Curb.	
				4707	" Top Curb.	
	T.P.			14712	29.3 Ctr. Is.	

Profile No. ___ Notes Red ___ Plotted ___ Job No. 5294.31 Division No. 11 F.B. 2963 PG. 153
X-Sec. No. ___ Date ___ Date ___ Survey of WATER MAIN AUTH.
Notes Chkd. ___ Checked ___ Survey by BOWERS Notes RCB Date 7/62
Date ___ Date ___ Map No. ___ Indexed ___ Date ___

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt. 35' off T.L.	Rt.
57+43.8				14445	29.9 Top Catch basin	top 144.45
				141.42	" F.L. 24" C.M.P. S.D.	MCAS 3.03 F.L. 141.42
57+65.6 E.C.				13761		27.0 F.L. 24" C.M.P. S.D.
57+88.16				14089		3.0 Bot berm
				420		4.0 Top "
				4112	1.5 Edge Shoulder	
				4161	9.9 " Pavt.	
				4156	33.2 Bot Curb	
				4180	" Top "	
	T.P.			14185	35.0 Ctr Is	
58+33.0				3712		6.0 F.L. 8" C.M.P. S.D.
59+00				3384		2.6 Bot berm
				347		4.0 Top " & Top F.L.
				3415	1.4 Edge Shoulder	
				3443	10.0 " Pavt.	
				3462	33.2 Bot Curb	
				3484	" Top "	
	T.P.			13487	35.0 Ctr Is	

F.B. 2963 PG. 154

Job No. 5294.31 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of WATER MAIN ALIGN. Date ____ Date ____ No. ____

Survey by BOWERS Notes R.C.B. Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed H.E. OTH. Date ____ Date ____ No. ____

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Profile No. X-Sec. No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Job No. 52442 Division No. 11
Survey of WATER MAIN ALIGN.
Survey by Bowers Notes P.68 Date 7/12
Map No. Indexed D. E. 011 Date
F.B. 2963 Pg. 155

STATION	B.S.	H.I.	F.S.	ELEV.	Lt. · 35° off ℄	Rt.
0+00				1277		3ª Bot Berm
				285		4ª Top "
				2805	1ª Edge Shoulder	
				2835	9ª " Pavt.	
				2875	33ª Bot Curb	
				2901	" Top "	
	T.P.			12909	35ª Ctr. Is.	
1+00				216		2ª Bot berm
				224		3ª Top "
				2188	1ª Edge Shoulder	
				2237	9ª " Pavt	
				2285	33ª Bot Curb	
				2309	" Top "	
	T.P.			12317	35ª Ctr. Is.	
1+04±				10945	107 ± F.L. 24" R.C.P. S.D.	
1+57±				11757		5ª F.L. 8"C.M.P. S.D.
1+60±		HAND LEVEL →		670		88± F.L. 24" R.C.P. S.D.
2+00				11156		2ª Bot berm
				1165		3ª Top "
				11596	1ª Edge Shoulder	
				11639	9ª " Pavt	

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' off ⊼	Rt.
62+00				11683	33² Bot Curb	
				1703	" Top "	
	T.P.			11710	35° Ctr. Is.	
63+00				096		3² Bot. Cut.
				1006	1⁴ Edge Shoulder	
				1050	10° Edge Pavt.	
				1097	33² Bot Curb	
				1117	" Top "	
	T.P.			11126	35° Ctr Is.	
64+00				034		3° Bot. Cut.
				0400	1⁴ Edge Shoulder	
				0452	10° " Pavt.	
				0485	33² Bot Curb	
				0510	" Top "	
	T.P.			10515	35° Ctr. Is.	
65+00				974		4° Bot berm
				983		4⁴ Top "
				9807	1⁴ Edge Shoulder	
				9845	10° " Pavt	
				9878	33² Bot Curb	
				9896	" Top Curb	

F.B. 2963 PG. 156
Job No. 5294.3 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by [illegible] Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed D.L. OTT Date Date No.

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt. 35' ⊼	off L Lt.
55+00	T.P.			9904	35° Ctr. Is.	
56+00				13		5° Bot Cut
				209	1⁶ Edge Shoulder	
				253	9⁹ " Pavt.	
				287	33² Bot Curb	
				304	Top "	
	T.P.			9312	35° Ctr. Is.	
57+00				856		3⁵ Bot Cut
				314	1⁶ Edge Shoulder	
				659	9⁹ " Pavt.	
				675	33² Bot Curb	
				699	Top "	
	T.P.			8707	35° Ctr. Is	
58+00				794		3° Bot berm
				809		4° Top "
				808		8° Top "
		Hand Level →		710		20° Bot fill
				8002	1⁷ Edge Shoulder	
				8040	10° " Pavt.	
				8051	33² Bot Curb	
				8062	Top "	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 Pg. 157
Date ____ Date ____ Survey of WATER MAIN AWGN
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Index H. E. OTT Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt. 35' off ℄ L	Rt.
68+00				8067	35° Ctr. Is.	
68+42.9				7626	86.5 Top Conc Catchbasin	
				6980	" F.L. 24" C.M.P. S.D.	
68+78.8				7410		5.5 F.L. 8" C.M.P. S.
68+79.8		Hand Level		541		45.8 F.L. 24" C.M.P. S.
69+00				732		2.5 Bot. berm
				44		4.0 Top "
				32		8.0 Top "
		Hand Level		542		45.0 Bot fill
				7368	1.7 Edge Shoulder	
				428	10.0 " Pavt	
				461	33.2 Bot. Curb.	
				474	Top "	
	T.P.			7480	35° Ctr. Is.	
70+00				6704		2.5 Bot. berm
				80		3.5 Top "
				79		8.0 Top "
		Hand Level		436		Bot fill
				[illegible]	1.7 Edge Shoulder	
				839	9.9 " Pavt	

F.B. 2963 Pg. 158 Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN Date Date No.
Survey by BOWERS Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. OTT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' off L	Rt.
70+00				6874	33² Bot Curb	
				6894	Top "	
	T.P.			6906	35° Ctr Is.	
B.C. 71+19.74				588		4° Bot berm
				609		5° Top "
				605		10° Top "
		Hand Level		360		50° Bot fill
				6069	1⁶ Edge Shoulder.	
				6137	10° " Pavt.	
				6161	33² Bot Curb	
				6183	" Top "	
	T.P.			6187	35° Ctr. Is.	
72+00				665		2° Top berm
		Hand Level		42°		38° Bot fill
				567	1° Top berm	
				553	2⁵ Bot. "	
				5591	6⁵ Edge Shoulder	
				5641	14⁶ " Pavt	
				5679	38¹ Bot Curb	
				5698	" Top "	
	T.P.			5712	39² Ctr. Is.	

Profile No. ___ Notes Red ___ Date ___ Plotted ___ Date ___ Job No. 52943 Division No. 11 Survey of WATER MAIN ALIGN. Survey by R.C. BOWERS Notes RCB Date 7/62 Map No. ___ Indexed H. E. OTT Date ___

X-Sec. No. ___ Notes Chkd. ___ Date ___ Checked ___ Date ___

F.B. 2963 Pg. 159

76-L298 CE 307 3-61

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F.B. 2963 Pg. 60 Job No 5294.3 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of WATER MAIN CLEAN Date ____ Date ____ No. ____ X-Sec.
Survey by POWERS Notes ECB Notes Chkd. ____ Checked ____ No.
Indexed H.E. Ott Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	Lt. (35' ↗)	Rt. (all L)
72+27.5				5.54.6	76.2 Top Catch basin	
				50.72	" F.L. 24" C.M.P. S.D.	
72+54.8				5.18.3		0.1 F.L. 8" C.M.P. S.D.
72+58.9				4.21.3		18.5 F.L. 24" C.M.P. S.D.
73+00				5.03		3.0 Top berm
		HAND LEVEL		4.30		10.0 Bot fill
				5.02	4.5 Top berm	
				4.97	5.5 Bot "	
				4.99.6	8.0 Edge Shoulder	
				5.04.1	16.5 " Pavt	
				5.07.3	37.4 Bot Curb	
				5.11.6	" Top "	
	T.P.			5.12.7	39.5 Ctr Is	
74+00				4.37		TAL = Bot berm
				4.48		1.0 Top "
				4.47		4.5 Top "
		HAND LEVEL		3.90		10.0 Bot fill
				4.40.8	3.9 Edge Shoulder	
				4.45.1	12.1 " Pavt	
				4.48.8	35.3 Bot Curb	
				4.5[illegible]	" Top "	

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Profile Notes Red. Plotted Job No. 2943 Division No. 11
No. X-Sec. Date Date Survey of WATER MAIN ALIGN.
Notes Chkd. Checked Survey by Bowers Notes PCB Date 7/62
No. Date Date Map No. Indexed H. E. OTT Date

F.B. 2963 PG. 161

STATION	B.S.	H.I.	F.S.	ELEV.	Lt.	35' ↑	off L	Rt.
74+00	+P			4037	39° Ctr. Is.			
75+00				399			2° Top berm	
				375			9° Bot brk.	
		HAND Level		30.5			25° 11	
				3928	4° Edge Shoulder			
				3965	12° " Paut.			
				3989	35° Bot Curb			
				4041	11 Top "			
	+P			4048	41° Ctr. Is.			
75+42°				3644	3° F.L. 8" C.M.P. S.D.			
75+43°				2846			12° F.L. 8" C.M.P. S.D.	
				28.0			13° Bot fill	
76+00				322			TL	
		HAND Level		20.5			12° Bot fill	
				352	7° Top berm			
				346	8° Bot "			
				3477	10° Edge Shoulder			
				3537	18½ " Paut.			
				3574	41½ Bot Curb			
				3621	11 Top "			
	+P			3644	44° Ctr. Is.			

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' ⊼	off L Rt.
76+20				3365		2° Edge Pavt. on Curve
				337		4° Top brk.
				321		20° Bot. "
				3419	9.5 Edge "Shoulder line"	
				3470	17° " Pavt. "	
76+29°				3196		28° Edge Pavt @ Return (Bonsall Dr)
				3395	10° Edge "Shoulder line"	
				3434	18° " Pavt "	
76+41°				3225		28° Ctr. Bonsall Dr.
76+53°				3168		28° Edge Pavt @ Return
				3326	11° Edge "Shoulder line"	
				3357	19.8 " Pavt "	
76+78°				303		20° Top brk.
				3231	11° Edge Shoulder @ Return	
				3271	19.5 " Pavt.	
77+00				297		⊼L = Bot fill
				281		30° (ground shot)
				316	10° top Bcyn	
				3180	12° Edge Shoulder	
				3207	20° " Pavt	
				3265	52.7 Pavt bet Is.	

F.B. 2963 PG. 162 Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by BOWERS Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H.E. OTT Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' ↑	off L Rt.
78+00				282		↑L
		HAND	LEVEL	205		27° Bot. fill
				303	3.5 Top berm	
				302	7.5 Top "	
				297	8.5 Bot.	
				2968	10.0 Edge Shoulder	
				2995	17.6 " Paut	
				3035	46.1 Bot Curb	
				3084	" Top "	
	TP			3091	49.4 Ctr. Is.	
78+35.5				2815	3.0 F.L. 8" C.M.P. S.D.	
78+36.6				1924		21.0 F.L. 8" C.M.P. S.D.
78+38.62				2249		14.91 Top Wing Wall
				208		" Bot " " @Ground
B.M. 48-126				2980	B.M. 48-126 (U.S. J-583, 1939)	
					Pac. Coast Hwy., Zuma Creek Bridge at E. end	
					of Walk on No. Side of Rd., a U.S.C.&G.S.	
					Std. Br. disk B.M. set flush with top of Walk	
					1962 Prelim Elev. = 29.877	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 PG. 163
X-Sec. No. ____ Date ____ Date ____ Survey of WATER MAIN ALIGN.
Notes Chkd. ____ Checked ____ Survey by BOWERS Notes R.C.B. Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt. 35 π	off L Rt.
78+53.65				2984	0.9 Back Walk	
				2984	4.5 Top " & Curb	
				2886	" Bot Curb	
78+55.60				2981		1.1 Top Wing Wall @ Gr. Bri
78+56.82				2982	0.26 Top Wing Wall	
				151	" Bot " " @ Ground	
78+58.44				2982	2.00 Back of Walk	
				2979	5.00 Top Walk & Curb	
				2892	5.25 Bot Curb (bridge)	
				2951	" " (Island)	
				3000	Top " (")	
				3005	Ctr. Is.	
79+00				2950		2.75 Back of Walk
				2945	0.25 Top Walk & Curb	
				2854	0.50 Bot Curb	
				2907	Ctr. Pavt.	
79+28.53				13 98		East Edge 2 lane Rd. Under bridge @ No. Bridge Line
				23 81		Bot. bridge structure
79+44.13				25 32		Soffat @ ctr. 2 lane Rd. under bridge
				13 86		ctr. of 2 lane Rd. on No. bridge line

F. B. 2963 Pg. 164
Job No. 52943 Division No. Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by BOWERS Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt. 35' off ⊼	L Rt.
79+59.73				1361		W. Edge 2 lane Rd. Under bridge @ No. Bridge line
				2907		7.29 Top Wing Walk @ Gr. Brk.
79+60.77				2815		2.20 Bot Curb.
				2900		2.45 Top Curb & Walk
				2907		5.45 Back Walk
79+64.5				2803		⊼L = Edge Conc. Gutter
				2795		1.0 Bot Curb to West
				2828		2.4 Top Curb to West
				2828		2.4 Bot bridge Curb
				2901		2.7 Top " "
				2905		Back Walk @ Cor. bridge
				2830	8.4 Edge Pavt.	
				2875	37.4 ctr. Pavt.	
79+65.00				2010		22.51 Top Wing Wall
				149		" Bot " " @ Ground
80+00				2766		1.3 Bot Gutter
				2794		2.4 Top Curb
				275		6.0 Gr. brk.
				187		35.0 Bot fill
				2791	0.5 Edge Gutter	
				2809	9.0 " Pavt.	

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 5294.3 Division No. 11 Survey of WATER MAIN ALIGN. Survey by BOWEES Notes PCB Date 7/62 Map No. ____ Indexed H. E. OTT Date ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F.B. 2963 Pg. 165

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STATION	B. S.	H. I.	F. S.	ELEV.	Lt 35'	Rt
80+00				2857	37.9 Ctr. Pavt	
80+84.0				2754		0.9 Bot Curb
				2820		" top "
				268		20 R
				2765	1.1 Edge gut.	
81+00				2740		1.1 Bot Curb
				2810		1.1 Top Curb
				2851		12.7 Top Curb
				2800		12.7 Bot Curb
				2760	0.8 Edge Gutter	
				2770	13.0 Edge Pavt.	
				2805	38.9 ctr. Pavt	
82+00				2690		0.6 Edge Gutter
				2680		2.6 Bot Curb
				2747		2.8 Top "
				2725	12.8 Edge Pavt	
	T.P.			2752	37.8 Ctr. Pavt.	
82+65.0				2670		TL=FL.
				2677		20.0 Approx Ctr. Busch Dr.
				2691	10.8 Edge Pavt.	
				2[illegible]20	35.0 Ctr. "	

F.B. 2963 PG. 166
Job No. 52943 Division No. 11 Notes Red Plotted Profile
Survey of WATER MAIN ALIGN. Date Date No.
Survey by BAUERS Notes R.C.B. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	30	Rt
83+17.5				2665			6.5 gut out
				2656			8.5 " in
				2713			" top cb
				2735			18.5 bk walk
				2670	Edge Pav't		
				2704	Ctr "		
84+00				2636			4.8 gut out
				2624			6.8 bot cb
				2685			" top cb
				2706			16.8 bk walk
				2630	8.5, Edge Pav't		
				2667	37.1 Ctr "		
85+00				2582			4.9 gut out
				2570			6.9 " in
				2625			" top cb
				2651			16.9 bk walk
				2580	8.5 Edge Pav't		
				2612	39.6 Ctr "		

Note 30 OFF Set Starting Here

Profile No. ____ Notes Red ____ Plotted ____ Job No. 52943 Division No. 11 F.B. 2963 Pg. 167
X-Sec. No. ____ Date ____ Date ____ Survey of Water Main Align.
Notes Chkd. ____ Checked ____ Survey by Bowers Notes Lo Gout Date 7/62
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	Lt	3g	Rt
85+01				2612			16.7 End of Walk
85+25.1				2582			4.9 gut out
				2569			6.9 " in
	T.P.			2622			" top cb
				263			17.0 R.
86+00				2494			5.4 Edge Shoulder
				255			top berm
				2528	6.1 Edge Pav't		
				2563	32.0 Ctr Pav't		
86+25.2	T.P.			2498			T. bk Line
BM48-127				23.05	BM48-127 (Dume Pt I-11A 1950)		
				21.76	Pac. Coast Hwy., 0.35 mi. W. of Zuma Creek		
				E.T.	Bridge @ Hwy Sta. 497+94.5 ±. Approx. 40.4 off		
					℄. A Std. L.A.G. Sur. Control Traverse Sta		
					1962 Prelim Elev = 23.059, F.B. 1369-107		

F.B. 2963 PG. 168
Job No. 5294.31 Division No. 11 Notes Red Plotted Profile
Survey of Water Main Align Date Date No.
Survey by Bowers Notes Le Gault Notes Chkd Checked X-Sec.
Indexed H.E. OTT Date Date No.

F.B. 2963 PG. 169

Profile No. _____ Notes Red _____ Plotted _____ Job No. 5294.31 Division No. _____
Date _____ Date _____ Survey of WATER MAIN ALIGNMENT
X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by Mankey Jr & Notes ETM Jr Date Sept. 20, 67
Date _____ Date _____ Map No. _____ Indexed _____ Date _____

JN 5294.31

WATER WORKS DISTRICT #29

WATER MAIN ALIGNMENT

INVERT PICKUP IN ZUMA BEACH AREA

Mankey Jr
McCall
Manley
Swann

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

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STATION	B.S.	H.I.	F.S.	ELEV.	PACIFIC COAST HWY	
75+50! (Fd)				14.66'	75+50! EL 14.66 F.B. 2963-77 Top Catch Basin 39.1' Rt of Hwy ℄	
					LT & So.	⊼ = 30' off LA. RT & N.
75+50!				14.66		9! Top C.B.
"	Invert on 24" R.C.P.			10.85	(Direct to flowline)	" Inv. 24" Drain
75+48.4 (Fd)				13.89'	75+48.4 EL 13.90' FB 2963-77 Top Drop M.H. 51' So. of Hwy ℄	
89+46.8 (Fd)				16.45'	89+46.8 EL 16.45 FB 2963-84 Top of Conc. Junction Box.	
+46.8	Invert on 15" Inlet on S.W.			11.19'	Direct to f.l.	3.07 (15" culvert)
89+59.50	" " " Outlet on N.E.			12.82'	" " 76.8' (15" culvert)	
89+87.70 (Fd)				15.86'	89+87.70 EL 15.84 F.B. 2963-84 Top of Wty End Curb.	

F.B. 2963 PG. 170 Job No. 5294.71 Division No. Notes Red Plotted Profile
Survey of Water Main Alley Date Date No.
Survey by [illegible] Notes Chkd. Checked X-Sec.
Indexed Date Date No.

Notes Ck'd by		Survey of Watermain Align	F. B. 2963 Pg. 171
Map No.		JN	Tape	Std	°F
Office Work		Surveyed by ETM Jr.	
Checked		Notes ETM Jr Date 9/10/62	
Date		Indexed S. J. GALLI	

JN 5294.31

WATER MAIN ALIGNMENT

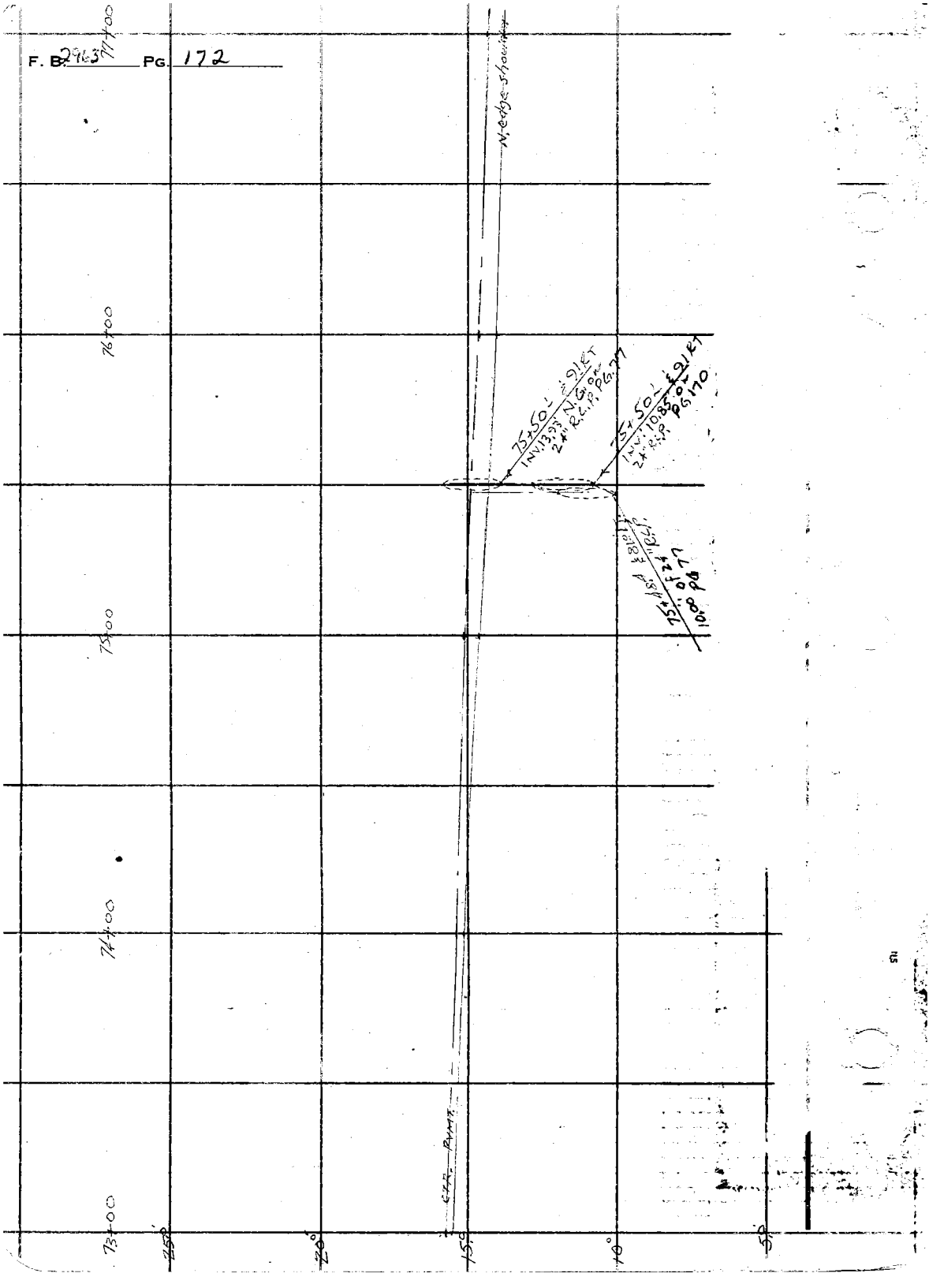
PLOTTED PROFILE
of
CTR. PAV., N. EDGE SHOULDER, & 24" RCP. DRAIN LN
SHOWN ON
PG 77 of THIS Book (2963)

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

Do not extend this side of this line.

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

Mankey Jr.
McCall
Mankey
Swann

76F3085 CE # 310 3-61

F. B. 2963 PG. 172