Notes Ck'd by	Survey of	F.B. 2316 Pg.
	JN Tape Std °F	
Work	Surveyed by	
	Notes Date	
	Indexed	

Page	Job	Description
		GARVEY MEMORIAL REC. CTR.-0054.34
5-18		Survey of additional area.
		HYDROGRAPHIC SURVEY 0300.02
5-26	Index	
2-42	C.L.	Redondo Beach-Realignment of Beach Control line between S-12 & S-19 v vic. King Harbor Marina
2		Add'l. Bench marks Southerly of breakwater area.
8		Beach Control Line recovery from Lechuza Point "Z-7" to Sequit Point "Z-27" Bench levels to estab. elev's on above Control line points.
		Bench levels to estab. elev's on above Control line points.
		KING HARBOR SURVEY J.N. 0300.02
65-76		Bench LEvels to estab. elev's on monuments on Breakwater as shown in F.B. 2316 & F.B. 2499.

Microfilmed Feb '86

5-73

76-L-298 CE 307 5-66

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F. B. 3790 Pg. 154 | Job No. 0220.02 | Division No. 11 | Notes Red. | Plotted | Profile No.
Survey of Beach Erosion Control (Santa Monica) | Date | Date | X-Sec. No.
Survey by K. Nupis Notes E.M. | Notes Chk'd. | Checked
Indexed H. E. Ott Date | Date 8 '70 | Date

Do not extend notes this side of this line.

DATUM
MEAN LOWER LOW WATER

STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	11 88			37 03	T.P. Cont. From Last Page
		48 91			
T.P	2 83		0 78	48 13	
		50 96			
T.P	2 00		5 66	45 30	
		47 30			
(Set) B.M. Z-8	4 85		4 87	42 ~~13~~ 45	B.M. Z-8 Elev. = 42.450 MLLW F.B. 2100-112
		47 30			Coast Hwy. - opp. Sta. 360+00 ± 300' So.
T.P.	2 88		7 94	39 36	of Water Tank on So. Side Broad
		42 24			Beach Rd. a C.S. Mon. 4" D.P. (F.B. 2100-115)
(Set) B.M. Z-9	1 17		9 70	32 54	B.M. Z-9, Elev. = 32.54 F.B. 3790-154
		33 71			Lachuza Point S. End of Graded Area
					403' W. of Z-8, 141' S. of Cut Tank
					A C.E. Mon. Dn. 12 See F.B. 2100-116
(Set) T.B.M. #15	10 39		10.29	23 42	T.B.M. #15, Elev. = 23.42 F.B. 3790-154
		33 81			A 1" I.P. Conc. Plug & Copper Wire Fl.
T.P.	9 56		1 27	32 54	on Line Prod From Z-8 To Z-9 &
		42 10			66.57' From Z-9 Above. See F.B. 2100
T.P.			2 21	39 89	Pg. 116

DATUM
MEAN LOWER LOW WATER

PWFB 1325

1743

Notes Ck'd by BRENNER	Survey of Garvey Mem. Rec.
Map No. B1260	JN [illegible] Tape [illegible] Std [illegible] °F
Office Work Green	Surveyed by [illegible]
Checked Granger	Notes [illegible] Date [illegible]
Date Sept. 57	Indexed K. C. Johnson 8-30-57

F. B. ~~2316~~ PG. ~~5~~

J. N. 0054.34

Boundary Survey For
Garvey Memorial Recreation
Center.

A Survey of Lots 4 and 5 and
The Easterly 5.25 ft. of Lot 3 in
Tract #1286 in the County of
Los Angeles.

Aug. 57

Dougherty
Petri
Sandoval
Henderson
[illegible]

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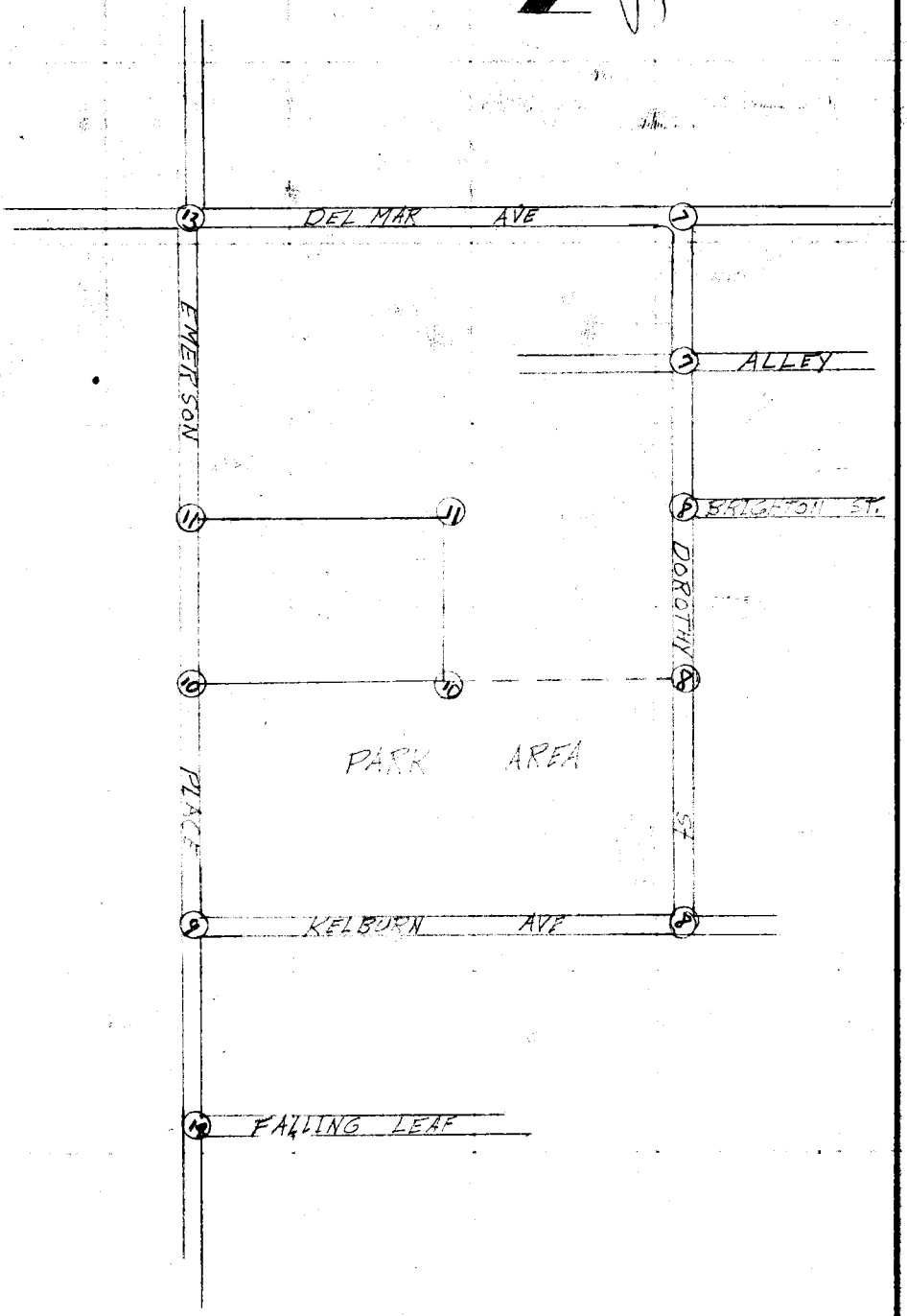
76F3095 S&E #247 1-56

PWFB 1325

F. B. 2016 PG. 6

1744

℄ Index



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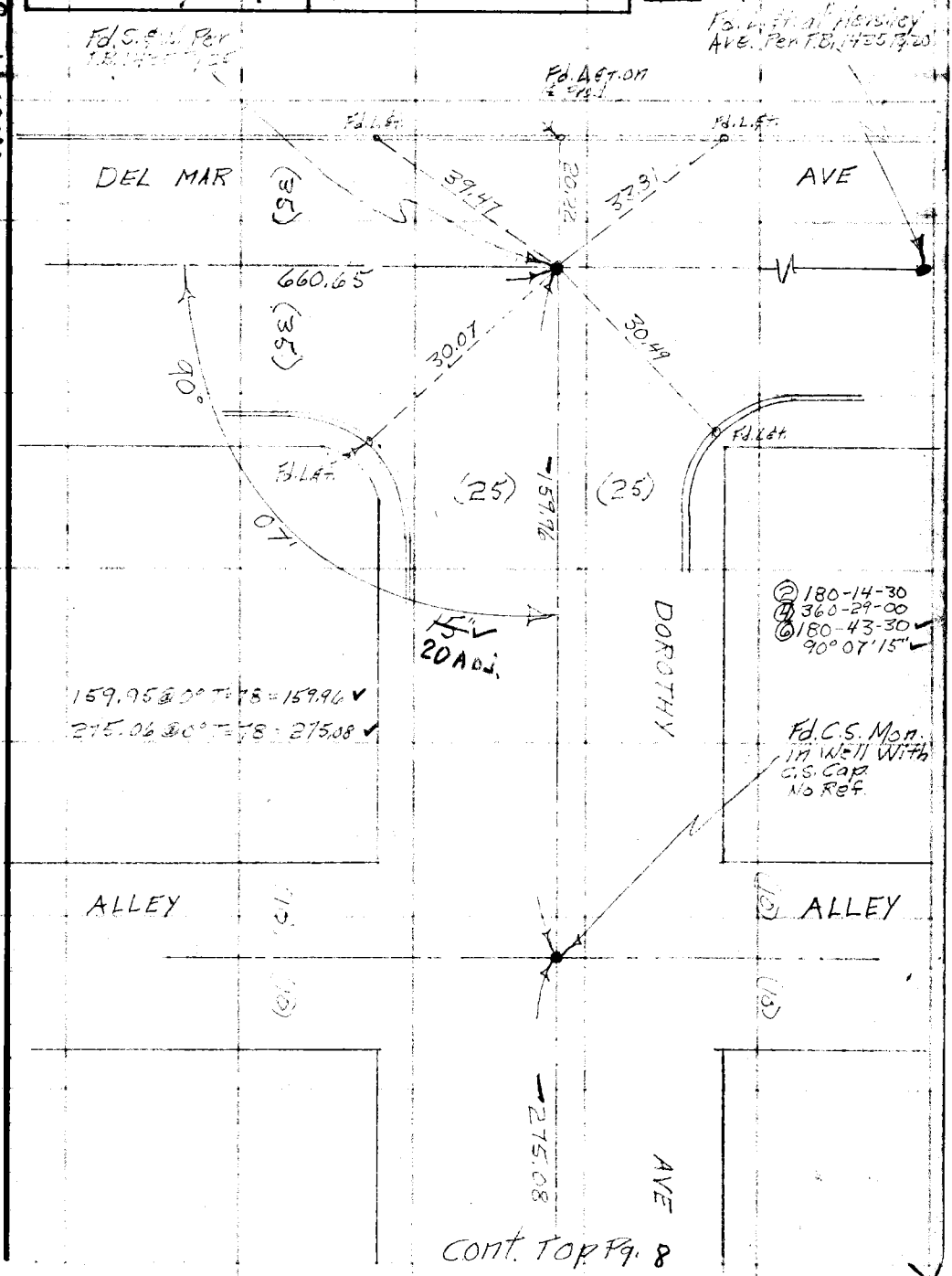
PWFB 1325

1745

Notes Ck'd by BRENNER	Survey of Garvey New Reg.
Map No. B1240	JN [illegible] Tape [illegible] Std [illegible] °F
Office Work Green	Surveyed by Dougherty
Checked Brenner	Notes [illegible] Date 8-13-57
Date July 1957	Indexed R. C. Johnson

F. B. ~~2376~~ Pg. ~~7~~ 3

W.S. 44-B-6



Cont. Top Pg. 8

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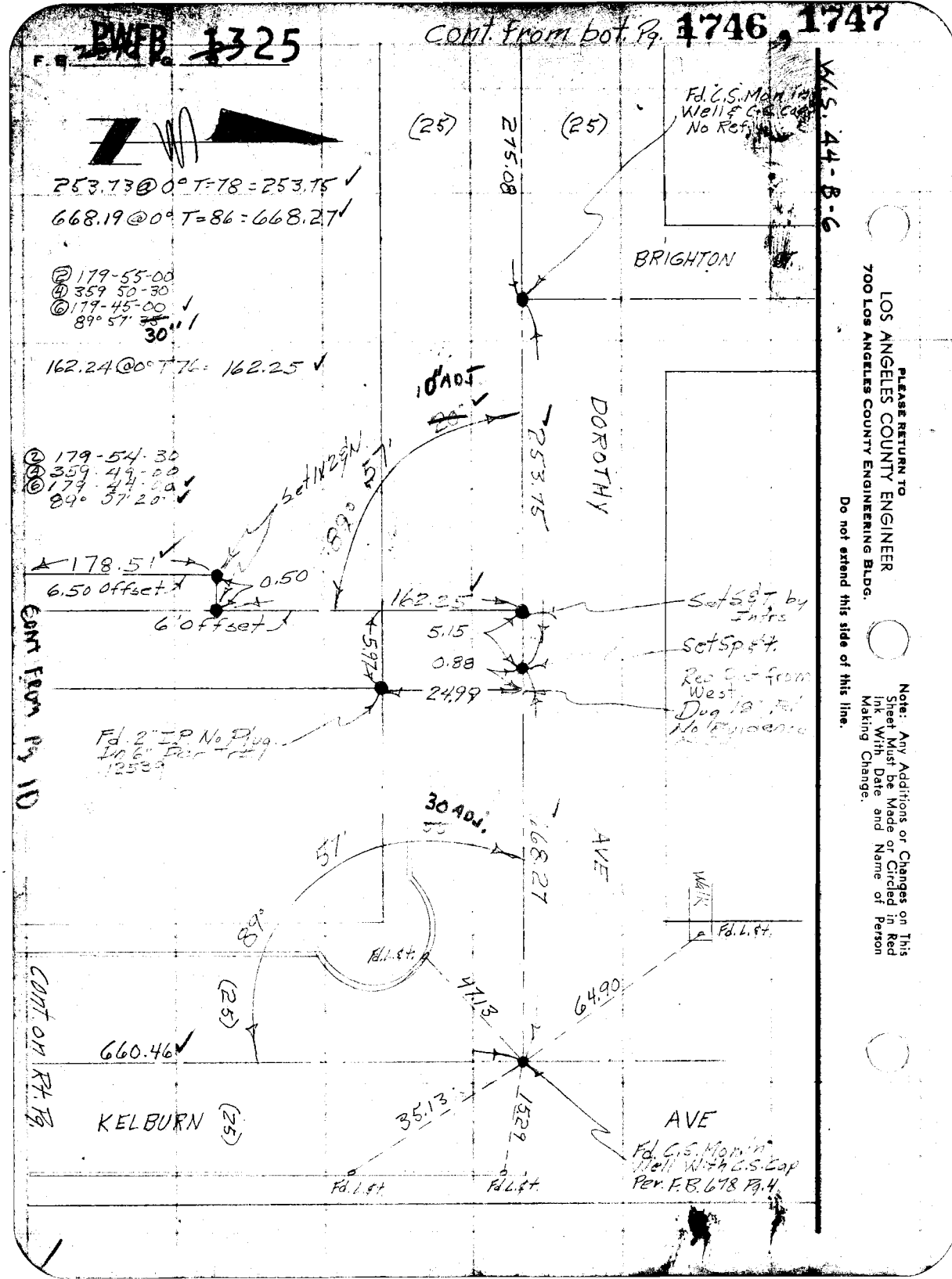
76F309S S&E #247 1-56



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PWFB 1325

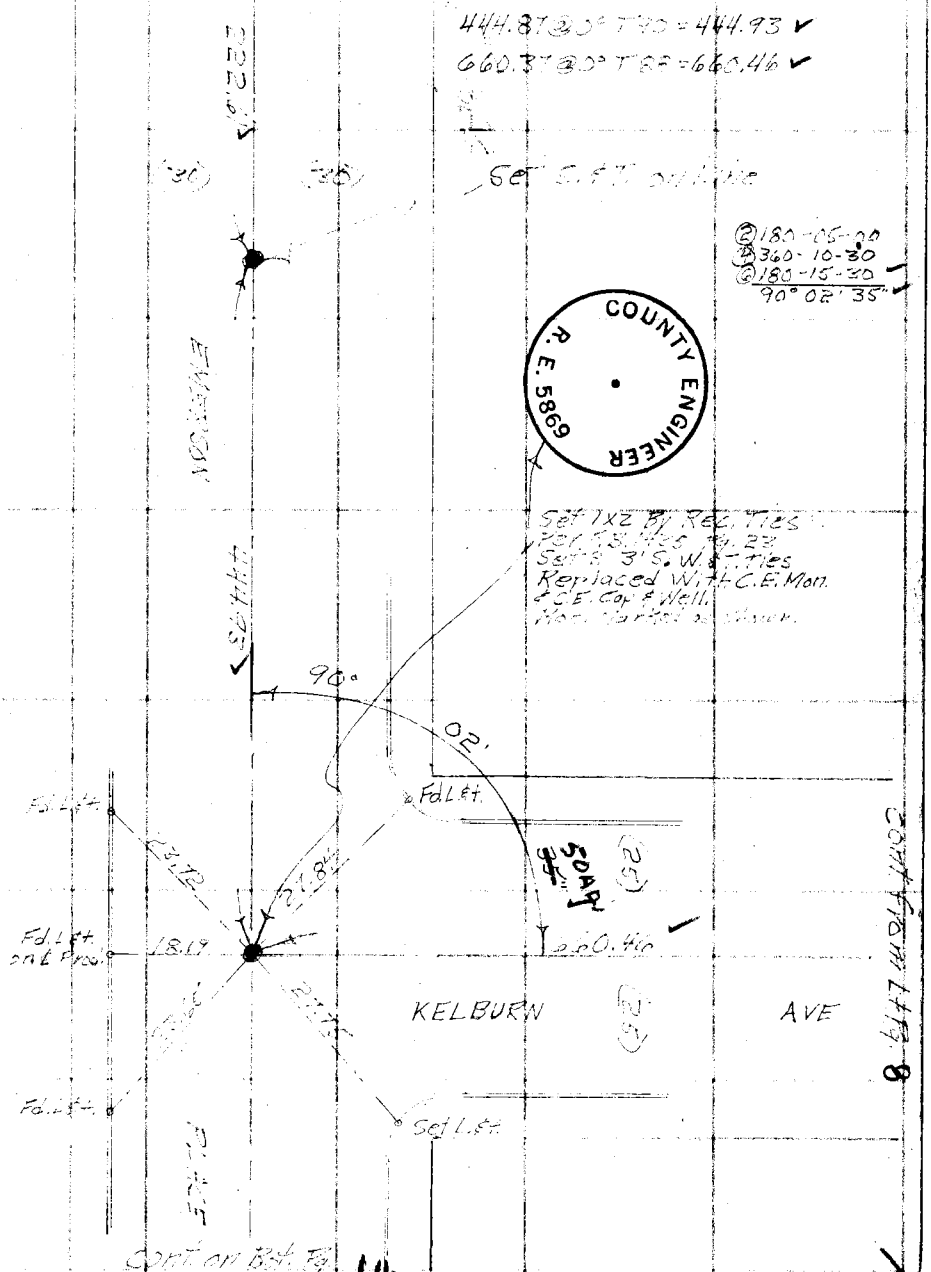
1748, 1749

Notes Ck'd by BRENNER	Survey of Garver Mem. [illegible]
Map No. B 1240	JN [illegible] Tape [illegible] Std [illegible] °F
Office Work Green	Surveyed by [illegible]
Checked Brenner	Notes [illegible] Date [illegible]
Date Sept. 1957	Indexed A. C. Johnson

F. B. 2316 PG. 9

W.S. 44-B-6

Cont. on Kt. Pg. 10



Cont. on Bot. Pg. 14

Cont. from Lt. Pg. 8

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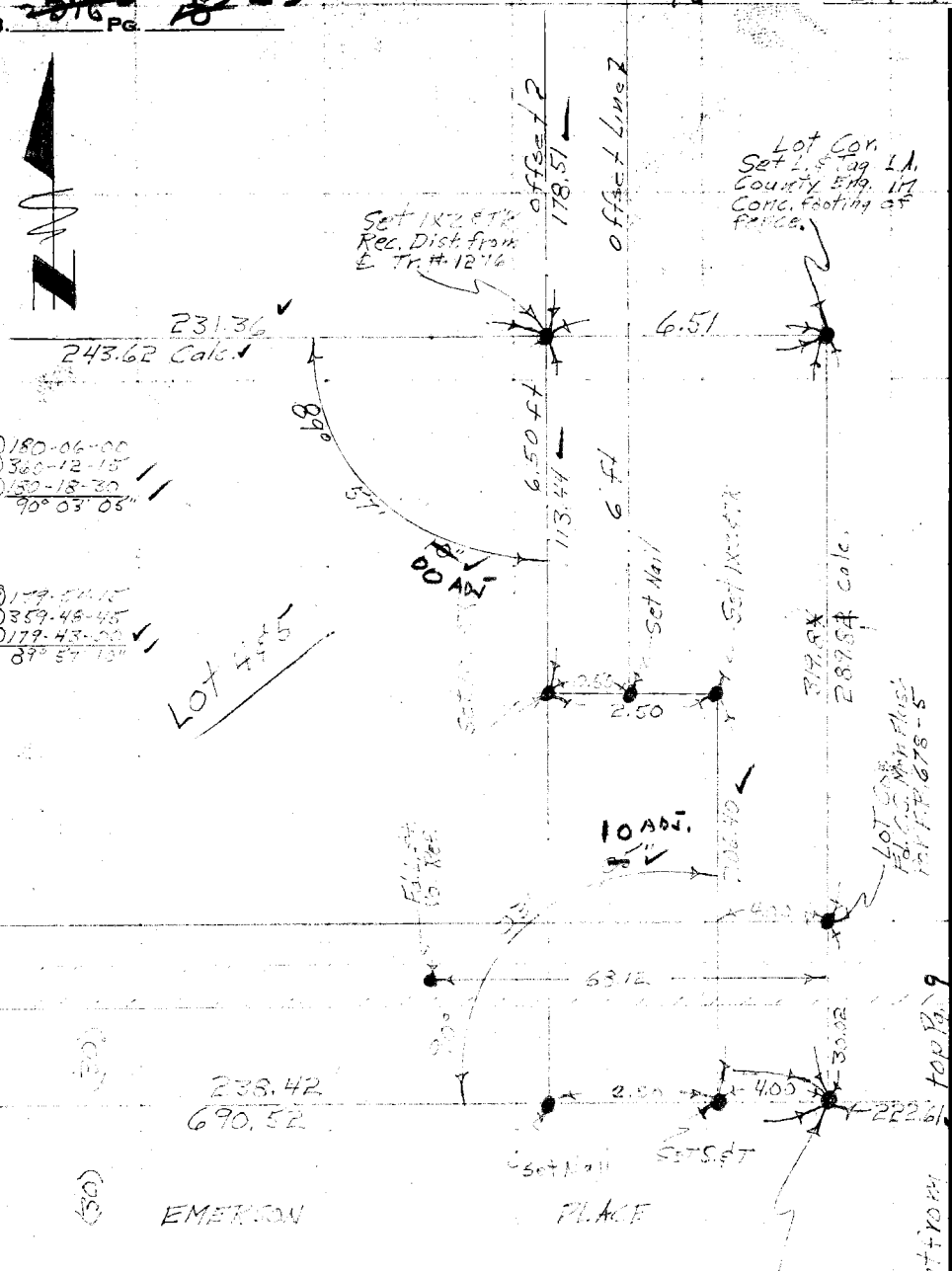
76F309S S&E #247 1-56

PWEB 1325 Cont. on Lt. Pg 8 1750

F. B. 2016 PG. 8



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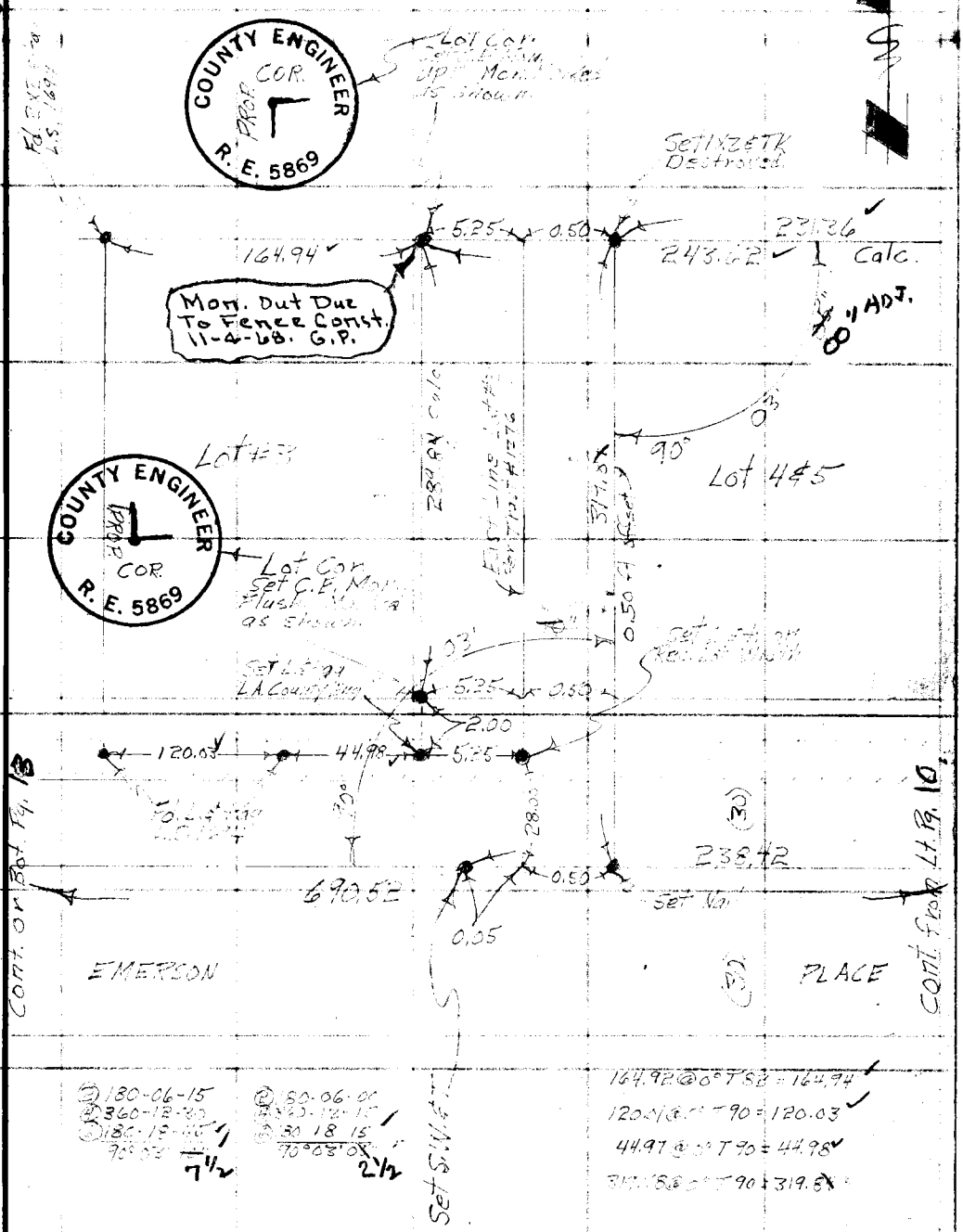
PWFB 1325

1751

Notes Ck'd by BRENNER	Survey of [illegible]
Map No. B 1240	JN [illegible] Tape [illegible] Std [illegible] °F
Office Work Green	Surveyed by [illegible]
Checked Brenner	Notes [illegible] Date [illegible]
Date Sept. 1957	Indexed A. C. Johnson

F. B. ~~2316~~ PG. ~~11~~

W.S. 44 - B - 6



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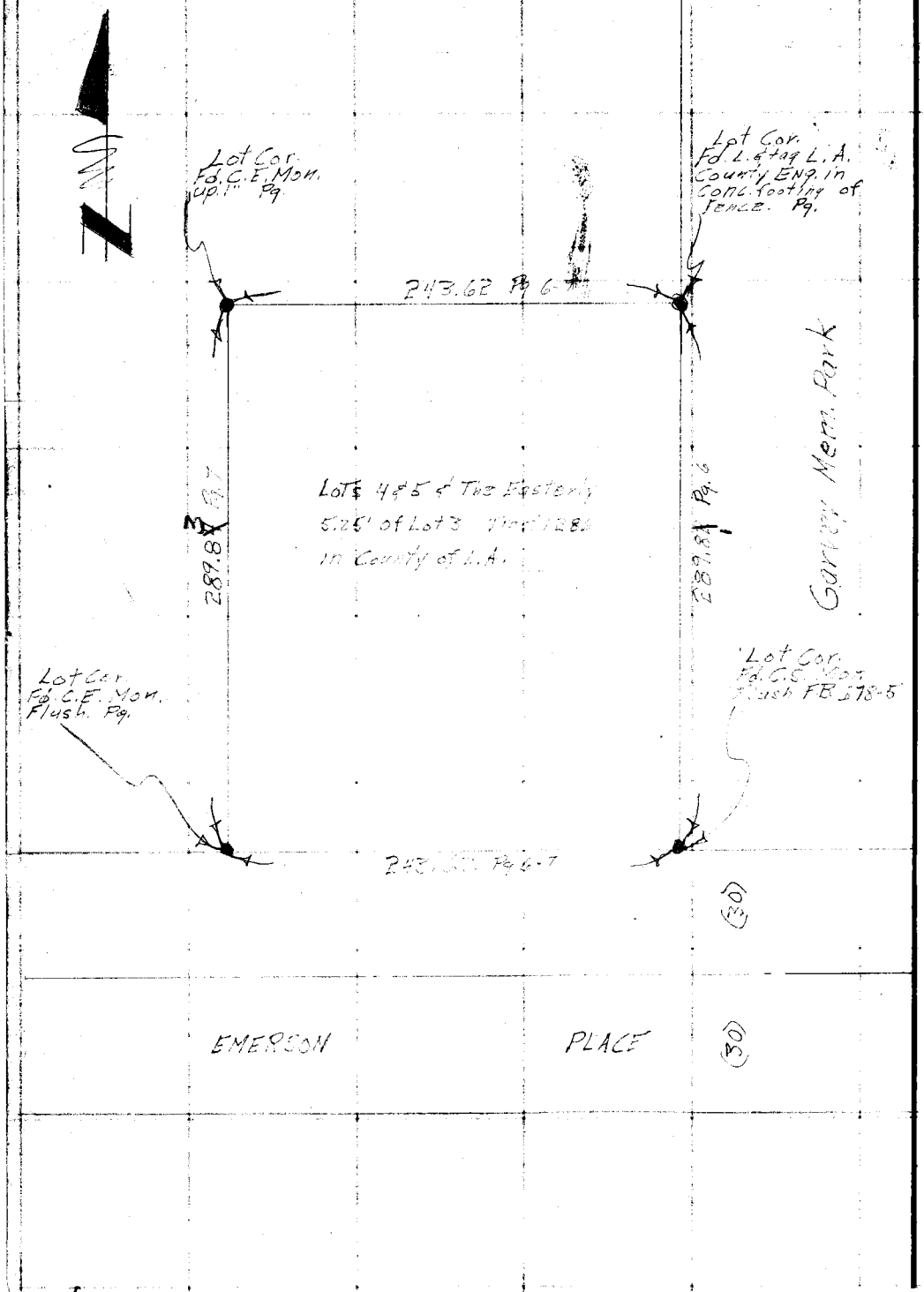
76F309S S&E #247 1-56

PWFB 1325

F. B. ~~2816~~ Pg. ~~1~~ 1325

1752



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PWFB 1325

1753

Notes Ck'd by BRENNER	Survey of Garvey Mem. Rec.
Map No. B1220	JN0054.34 Tape 0.8 Std 8 °F
Office Work Green	Surveyed by Dougherty
Checked Brenner	Notes Petri Date 8-13-57
Date Sept. 1957	Indexed C. Johnson

F. B. 2316 PG. 13

W.S. 44-B-C

Set L.&t. Per Tan. Ties Per F.B. 1282 Pg. 13

Fd. L.&t.

0.04 Fd. L.&t.

Fd. L.&t.

Fd. L.&t.

39.89

27.48

63.43

(35)

1707

643.58

660.65 AVE

DEL MAR

47.95 Tan.

49.12 Tan.

20 Adj.

(35)

Cont. on Lt. Pg. 7

Fd. L.&t.

Fd. L.&t.

52

Fd. L.&t. Per F.B. 1282 Pg. 13

Note — This Point May Have been Moved during Sewer const.

89°

660.61 @ 0° T=78 = 660.65 ✓

EMERSON

699.09 @ 0° T 88 = 699.18 ✓

1.34 ✓

690.52 ✓

(30)

(30)

179-45-00
359-30-00
179-15-15
89° 52' 30"
32½

690.52

PLACE

Cont. from Lt. Pg. 11

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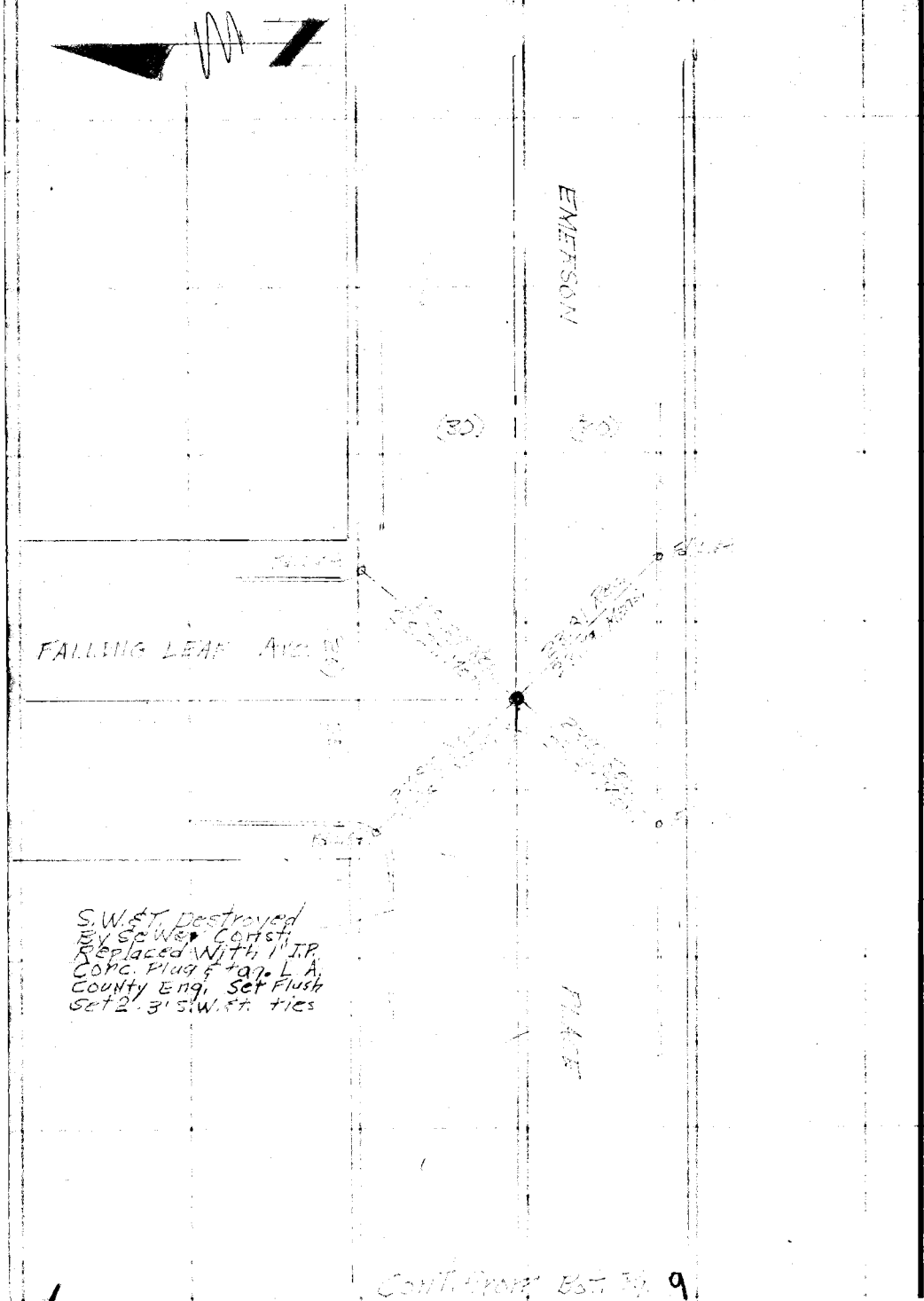
76F309S S&E #247 1-56

PWFB 1325

F. B. 23 Pg. 14

1754

W.S. 44-B-6



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Notes Ck'd by BRENNER	Survey of Garvey Mem. Rec.
Map No. B1240	JN 0054.34 Tape ____ Std. ____ °F
Office Work Green	Surveyed by Dougherty
Checked Brenner	Notes Petri Date 8-16-57
Date Sept. 1957	Indexed E. C. Johnson

F. B. 2316 PG. 15

J.N. 0054.34
Bench Levels at Garvey
~~Memorial Recreation Center~~
Lots 4, 5 & the Easterly 5.25 ft.
of Lot 3 Tract # 1286
Aug. 57

Dougherty
Petri
Henderson
Sandoval
Adams

For Location of B.M.
See next Pg.

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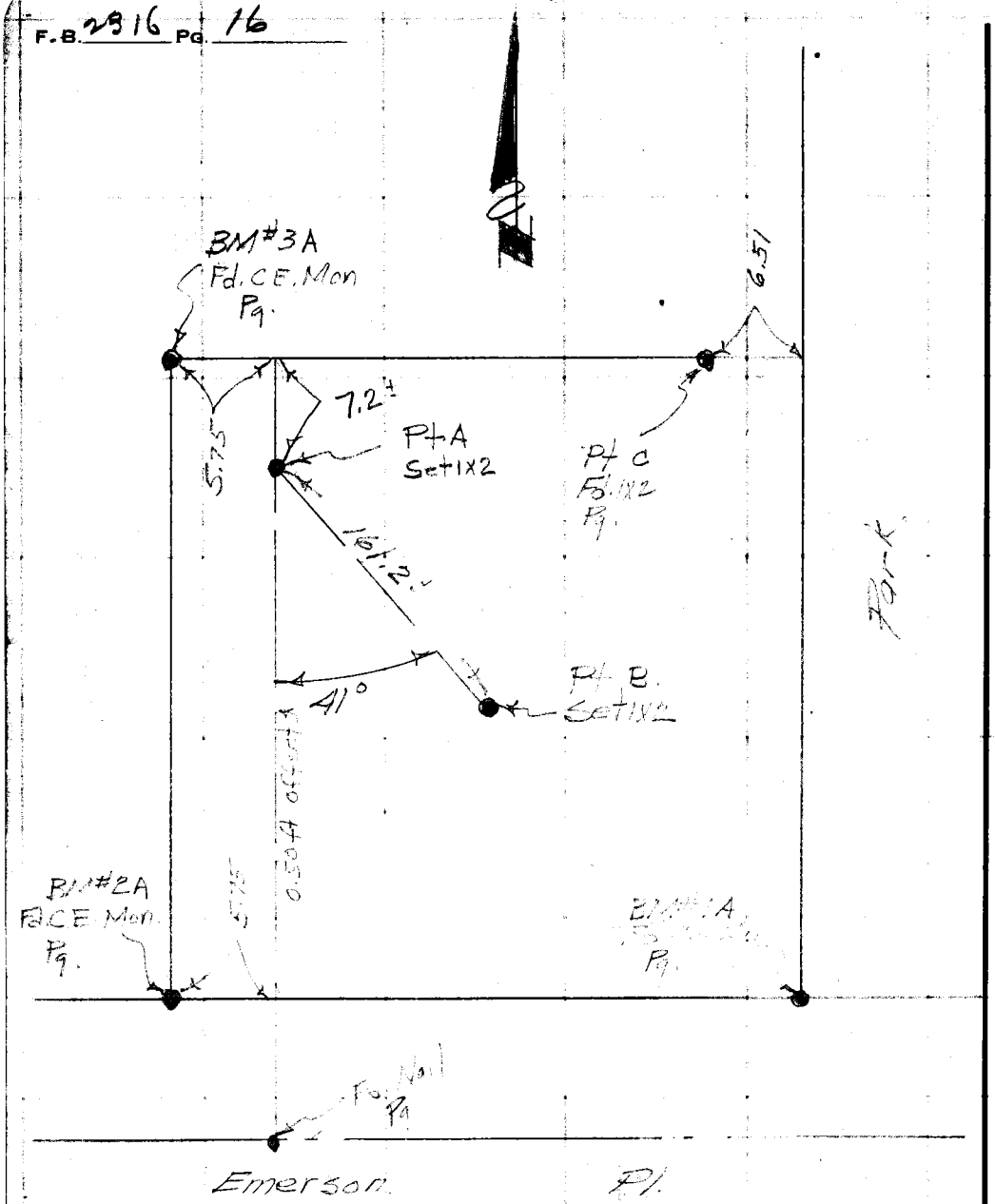
76F309S S&E #247 1-56

F.B. 2316 PG. 16



Layout of B.M's & "A" Pts

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76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. #4				302 427	B.M. #4 in N.S. Conc. Walk 330' W. of the [illegible]	
					2004 - 330' W. of the E. of Emerson St. [illegible]	
	3 127	305 556			Coord. 1000 E. 1000 N. B.M. #4 F.B. 678 - [illegible]	
B.M. #5			6 460	299 096	B.M. #5 in N.S. Conc. Walk 330' W. of the [illegible]	
					2004 - 100' N. of the E. Emerson St. F.B. [illegible]	
	3 606	302 702			767.02 N. 1000 E. B.M. #5 [illegible]	
T.P.			3 942	298 760		
	[illegible]	304 730				
B.M. #1A			4 425	300 605	B.M. #1A. F.B. [illegible] N.S. Conc. [illegible]	
					F.B. [illegible] See Pg. 16	
	5 002	305 507				
B.M. #2A			3 599	301 908	B.M. #2A F.B. [illegible] N.S. Conc. [illegible]	
					See Pg. 16	
	3 900	305 808				
P.A. #B			4 076	301 732	P.A. B F.B. [illegible] See Pg. 16	
	4 914	306 646				
P.A. #A			3 140	303 452	P.A. A F.B. [illegible] See Pg. 16	
	4 317	307 569				
B.M. #3A			4 189	303 344	B.M. #3A F.B. [illegible] N.W. Conc. [illegible]	
					See Pg. 16	
	3 462	307 106				
P.A. #C			3 210	303 612	P.A. C F.B. [illegible] See Pg. 16	
	[illegible]	307 526				
T.P.			5 [illegible]	301 [illegible]		
	4 273	305 887				
			5 442	300 445		

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. ____ Survey of [illegible] Division No. ____

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked [illegible] Survey by [illegible] Notes ____ Date ____

Map No. ____ Date ____ Indexed ____ Date ____

F.B. 2316 Pg. 17

F. B. 2316 Pg. 18 | Job No. 0054.34 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Garvey Mem Rec. Center | Date | Date | No.

Survey by Dougherty | Notes — | Notes Chkd. | Checked | X-Sec.

Indexed A. C. Johnson | Date | Date | Date | No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	4 530	304 975		300 [illegible]		
B.M. #5	3 813	302 859	5 939	299 046		
			3 753	299 106	B.M. #5 Elev. 299.110	See Pg.

PWFB 0516

128

Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date [illegible]
Date	Indexed C. J. GALLI [illegible]

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

J. N. [illegible]

HYDROGRAPHIC SURVEYS

REALIGNMENT OF BEACH CONTROL LINE

FROM S-12 TO S-19

RECORD CONTROL REF. SURVEY DIV. FILE MAP NO. 100-9

" " " FB. 2100

RICHARDS

LEGGETT

LIEBER

TURRILL

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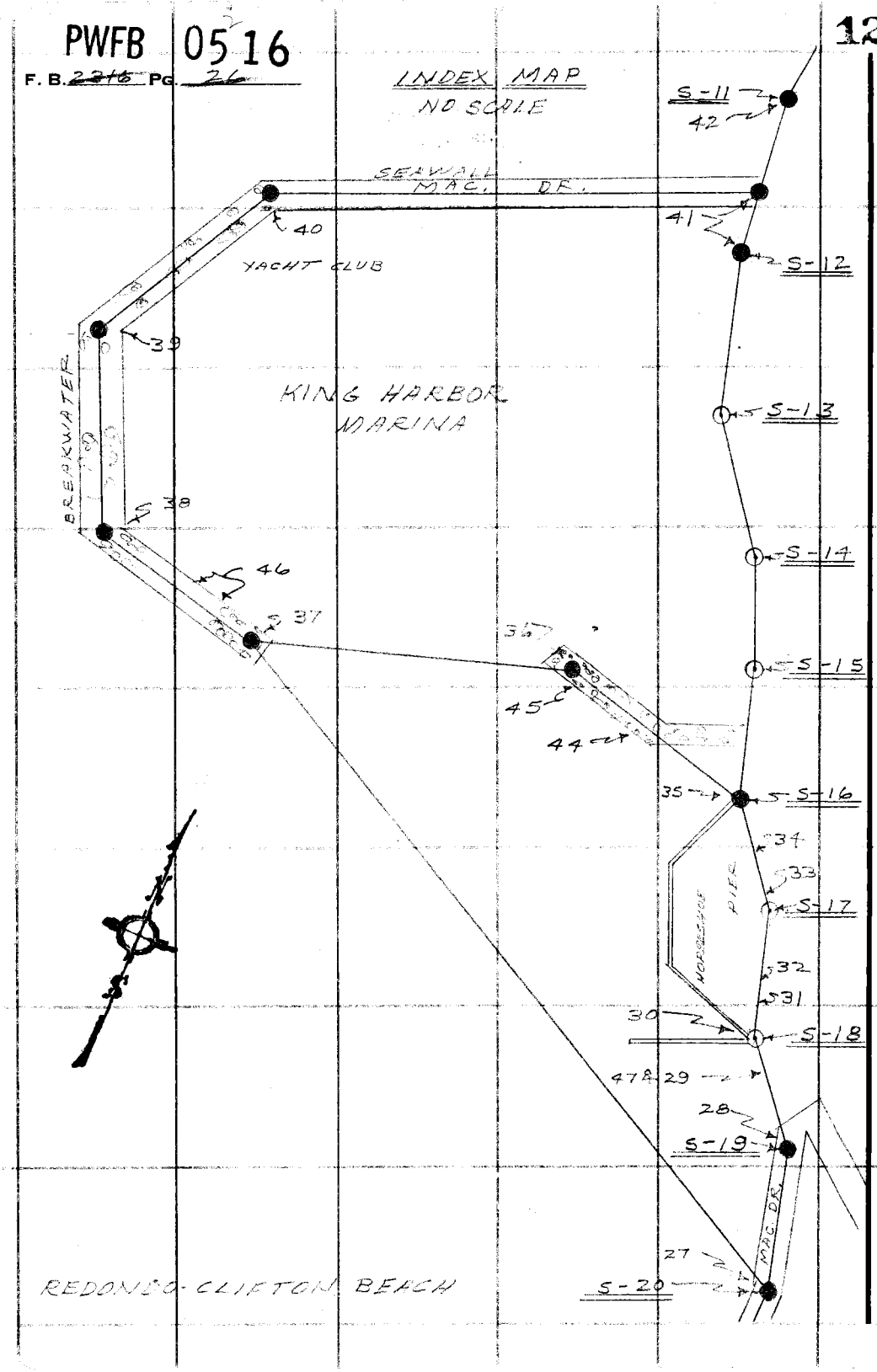
76F309S CE#310 3-68



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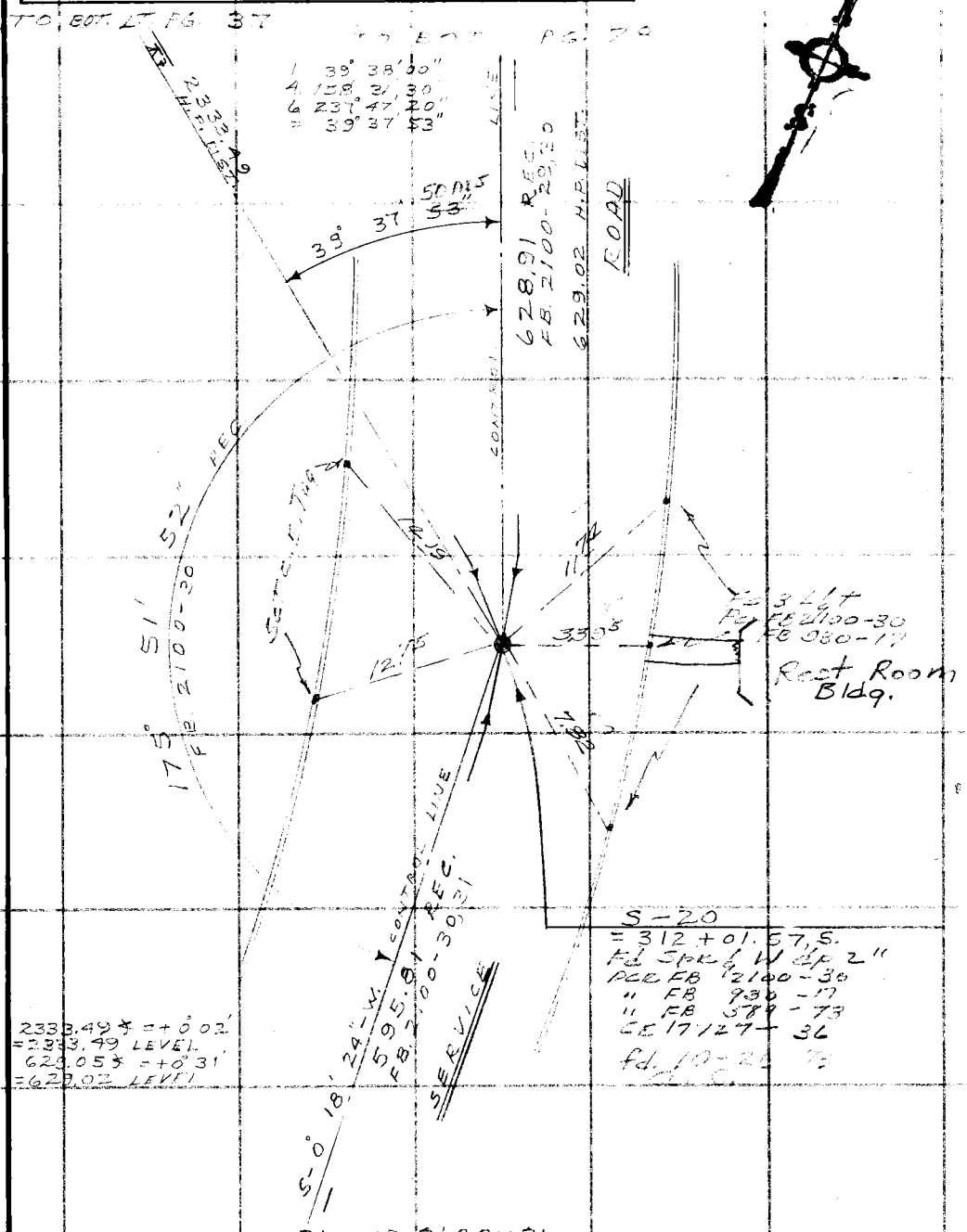
PWFB 0516

130

Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date [illegible]
Date	Indexed [illegible]

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



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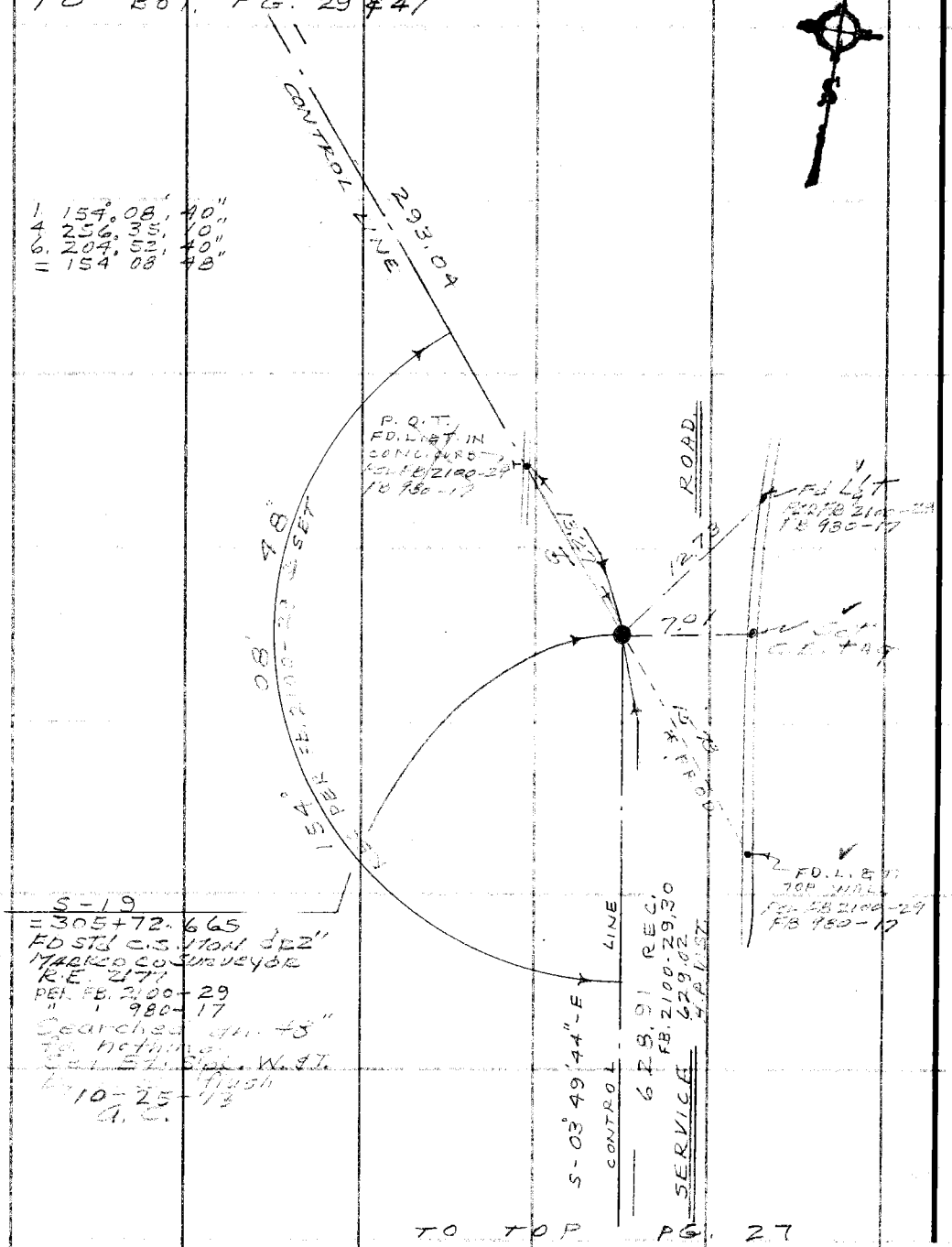
76F309S CE#310 3-68

F. B. 2316 PG. 28

300' TAPE @ 84° F.
1. 293.19 ∡ = -1° 39' T = 58° = 293.02
2. 293.28 ∡ = -1° 56' " = 293.06
AVE. = 293.04
(VERY WINDY)

TO BOT. PG. 29 & 47



TO TOP PG. 27

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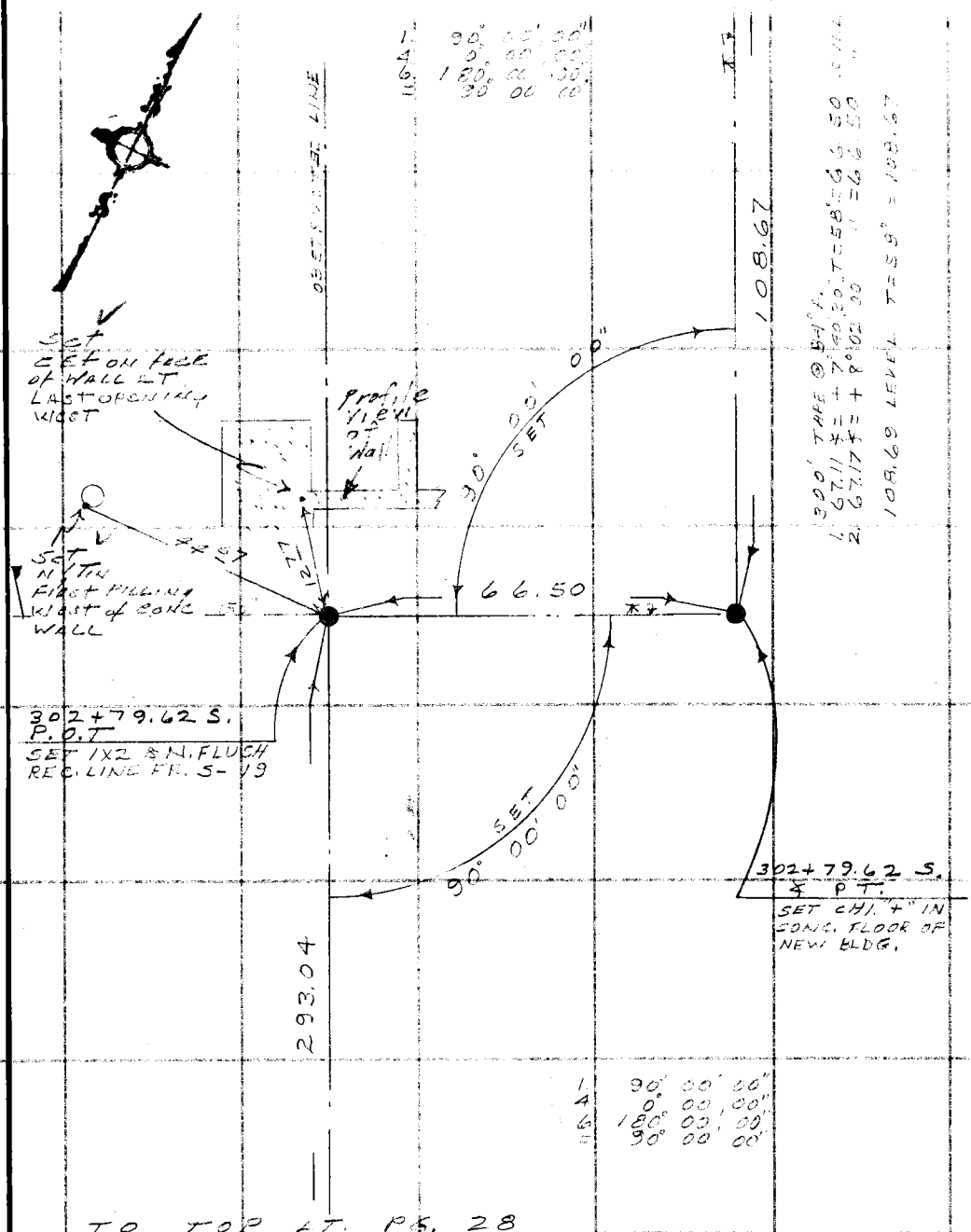
PWFB C516

132

Notes Ck'd by R. C. BOWERS	Survey of
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date
Date	Indexed

F. B. PG.

TO SET



TO TOP LT. PG. 28

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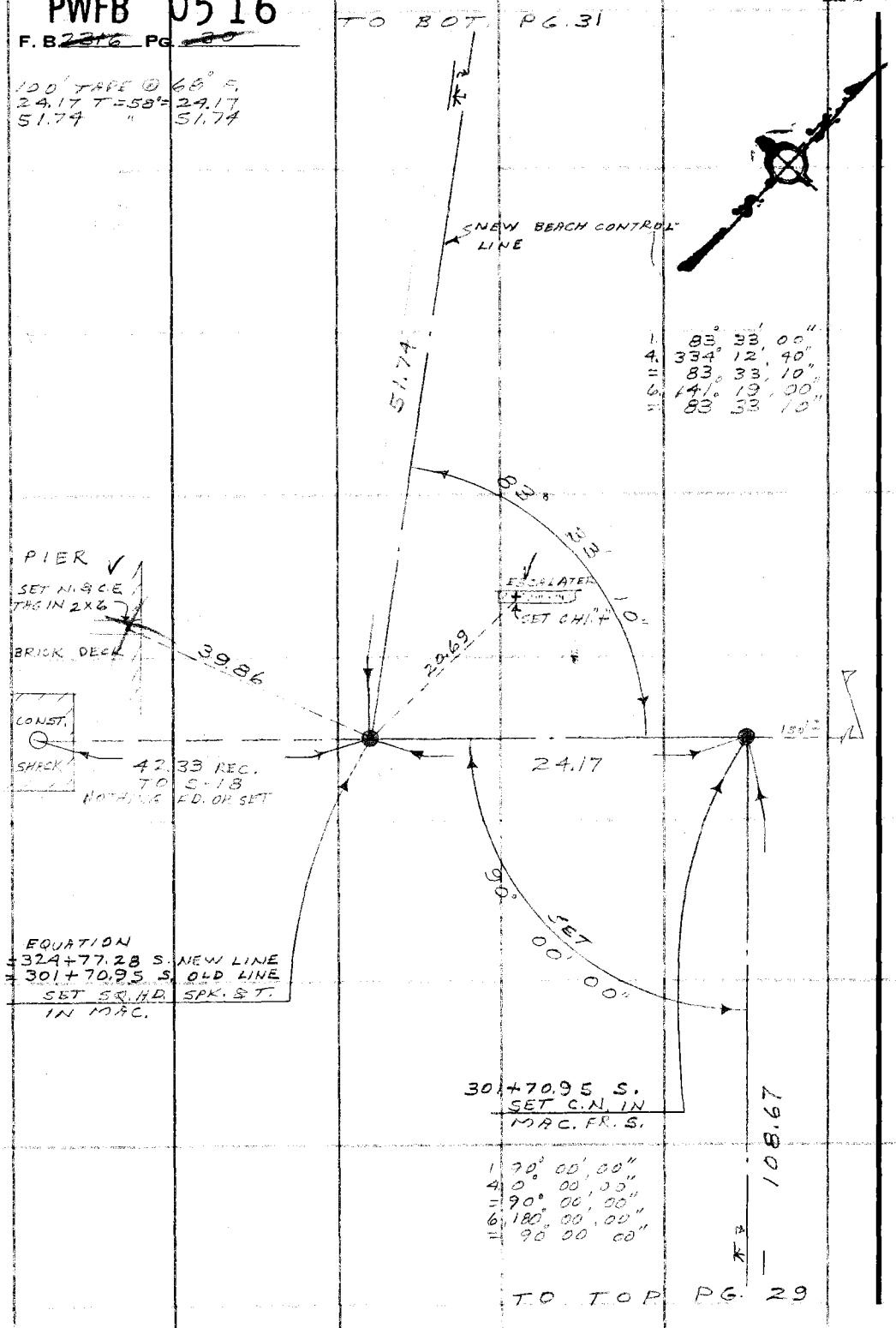
76F309S CE#310 3-68



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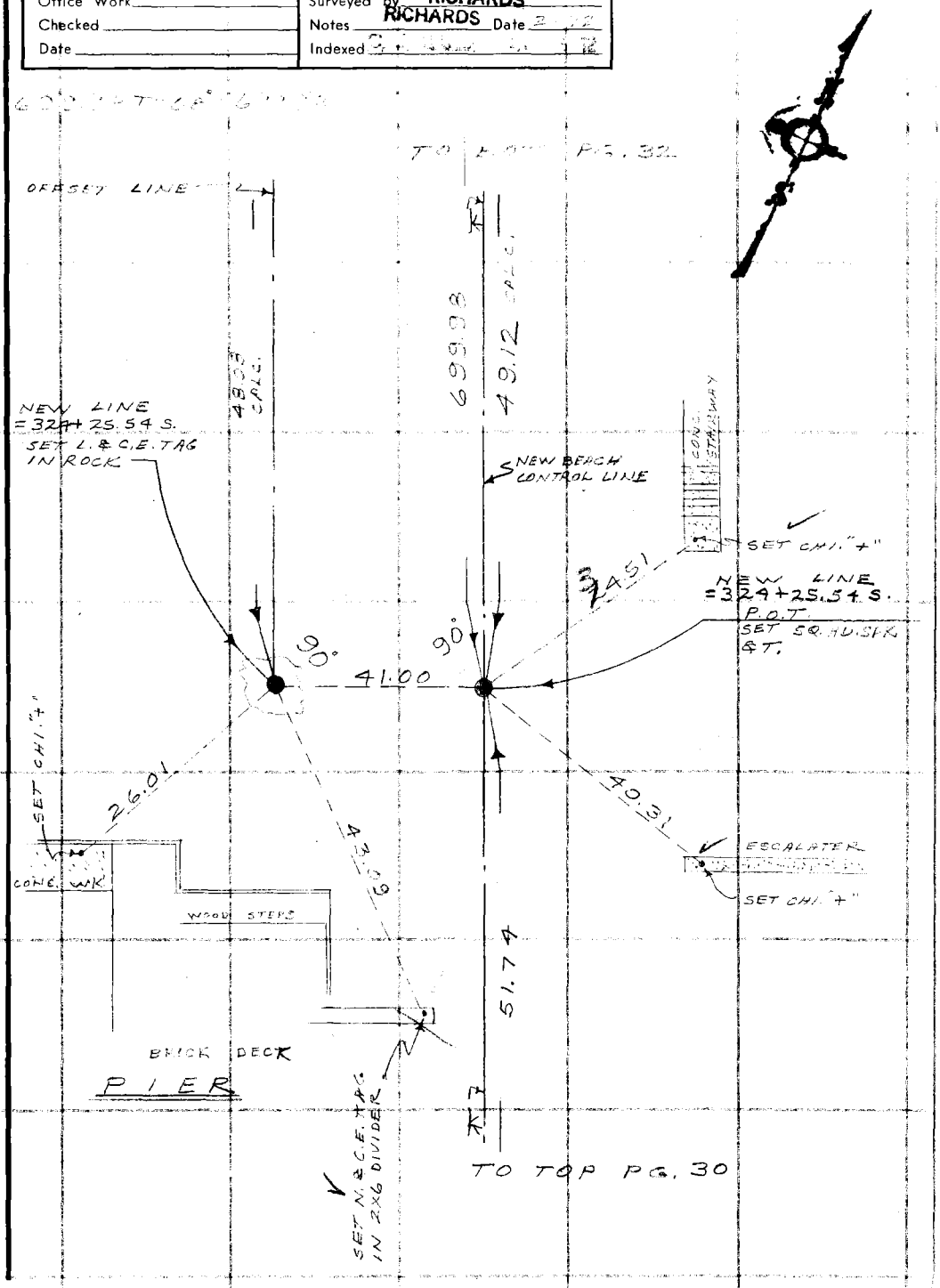
PWFB 0516

134

Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date [illegible]
Date	Indexed [illegible]

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



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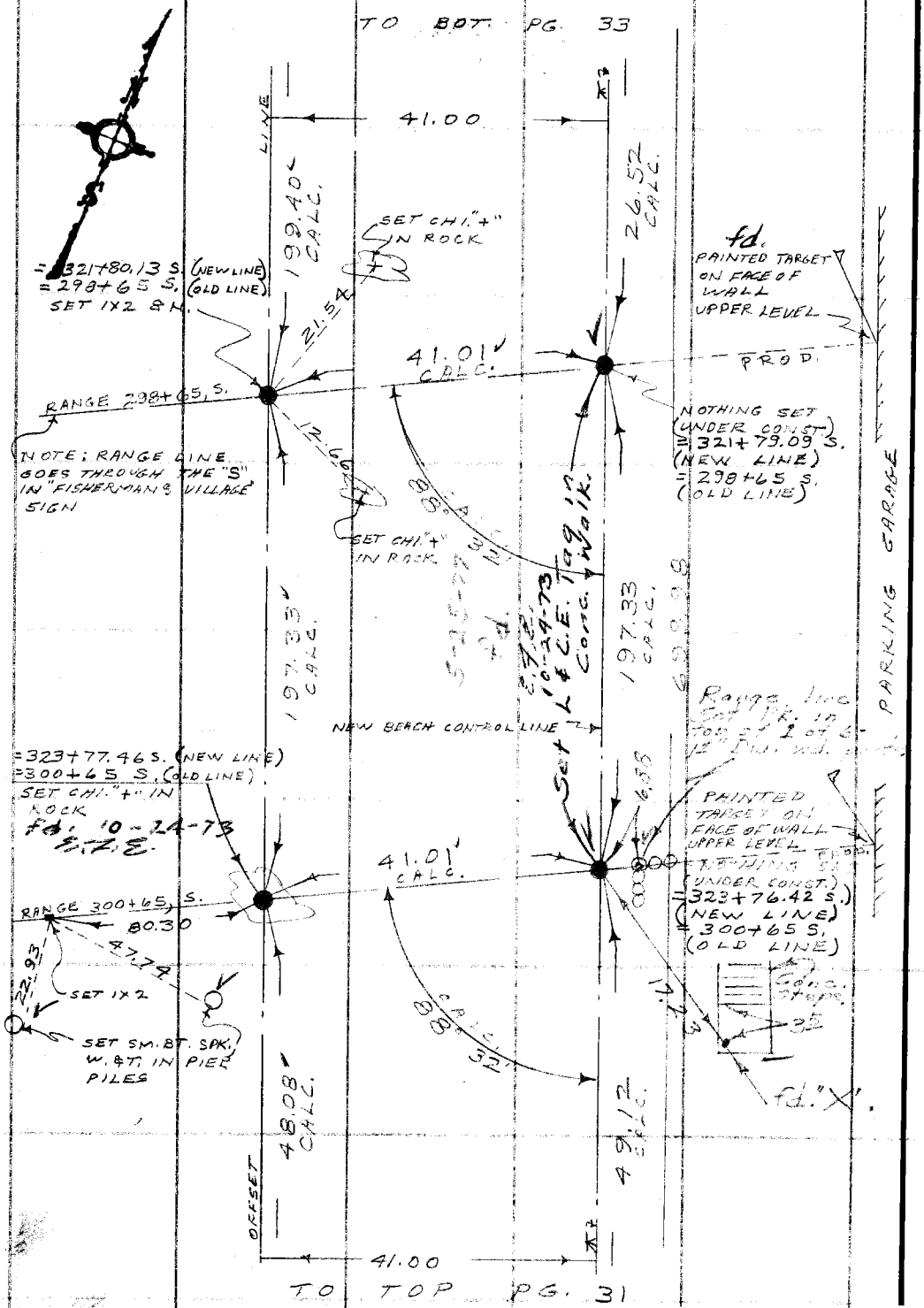
76F9095 CE#310 3-68

PWFB 0516

F. B. 2316 PG. 32

135



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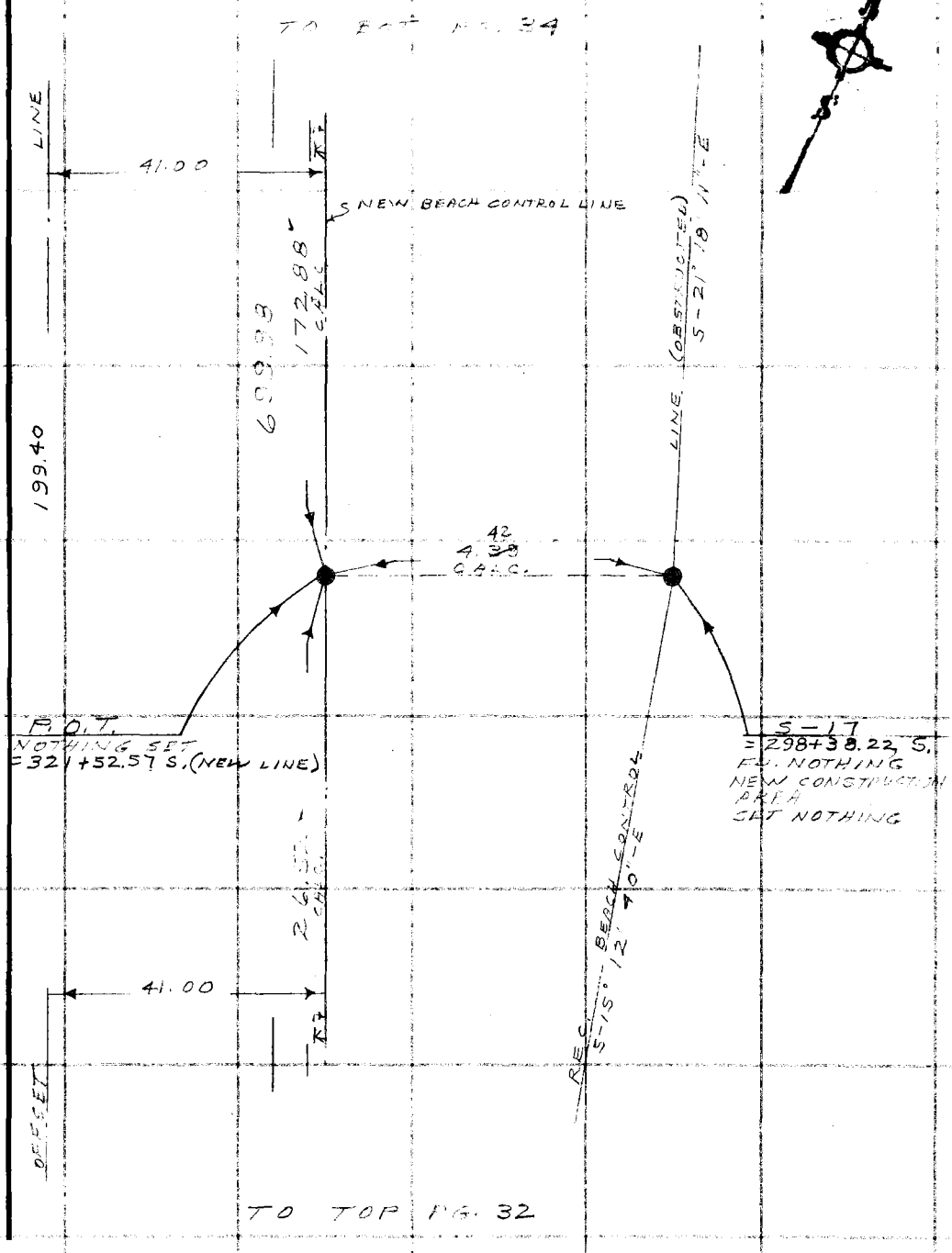
PWFB 0516

136

Notes Ck'd by R. C. BOWERS	Survey of
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date
Date	Indexed C. J.

F. B. PG. 33



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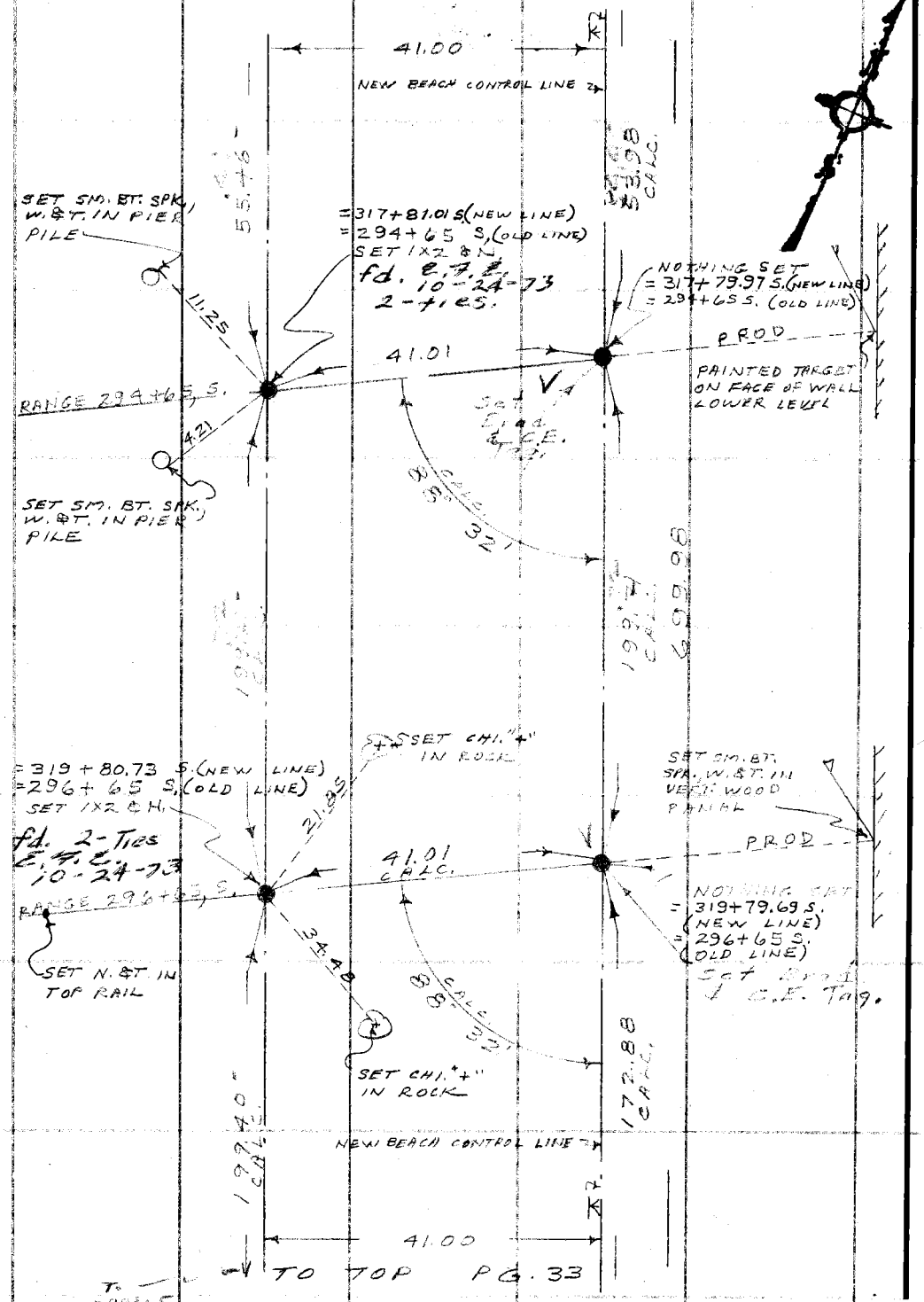
Do not extend this side of this line.

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

76F3095 CE#310 3-68

F. B. 2316 PG. 24



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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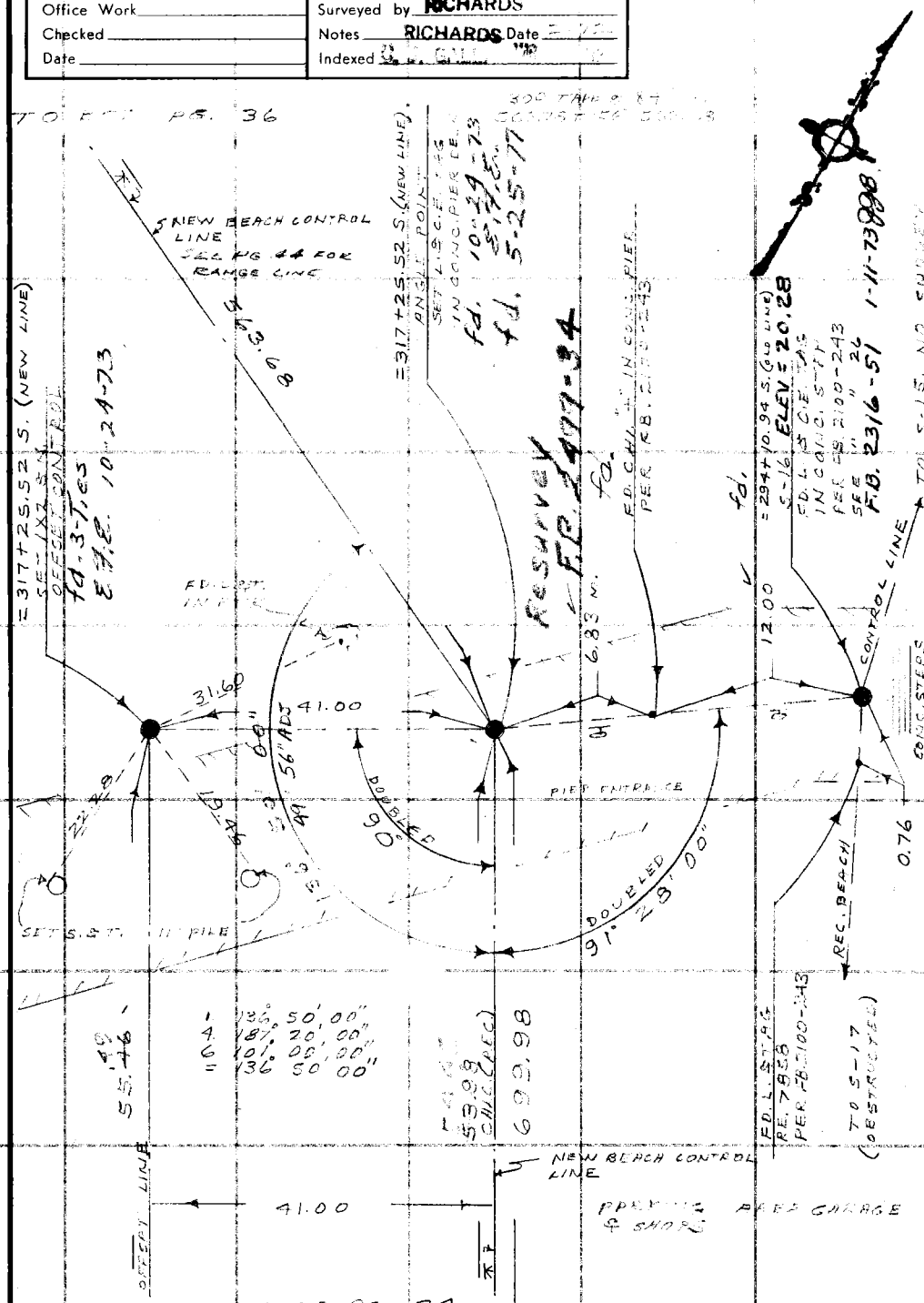
Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date
Date	Indexed

F. B. [illegible] PG. 35



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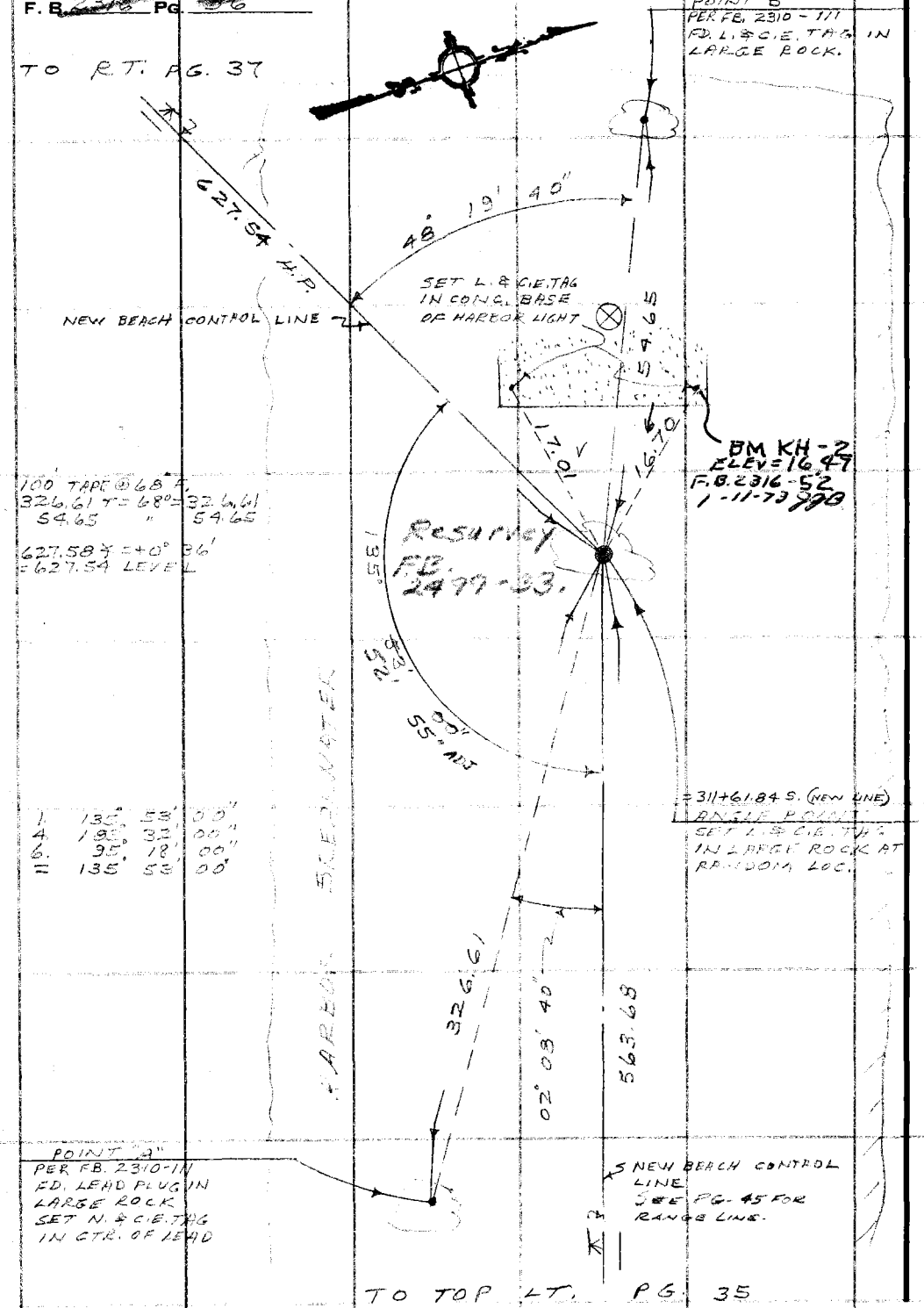
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F. B. 2316 Pg. 36



PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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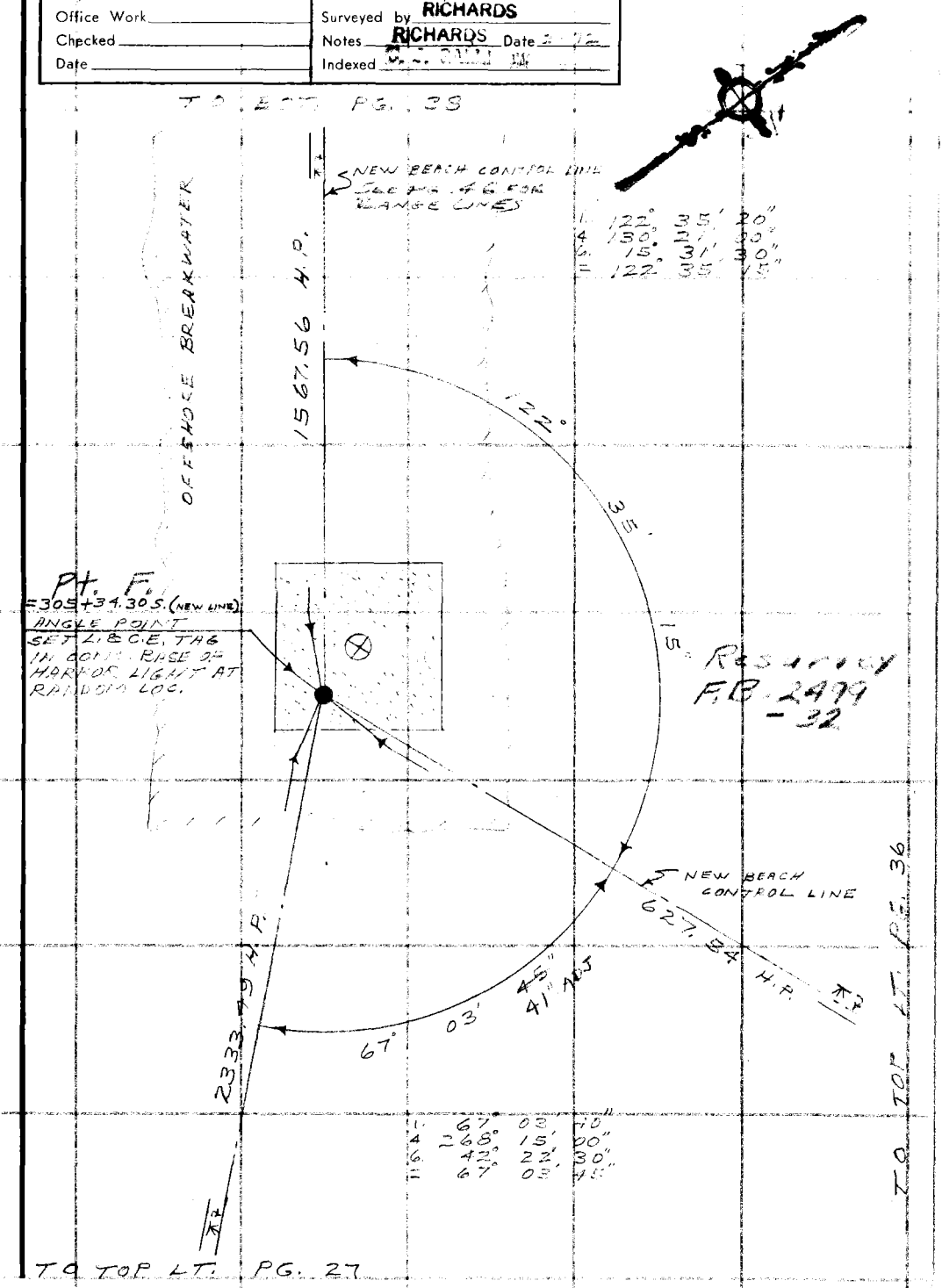
PWFB 0516

140

Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date [illegible]
Date	Indexed [illegible]

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



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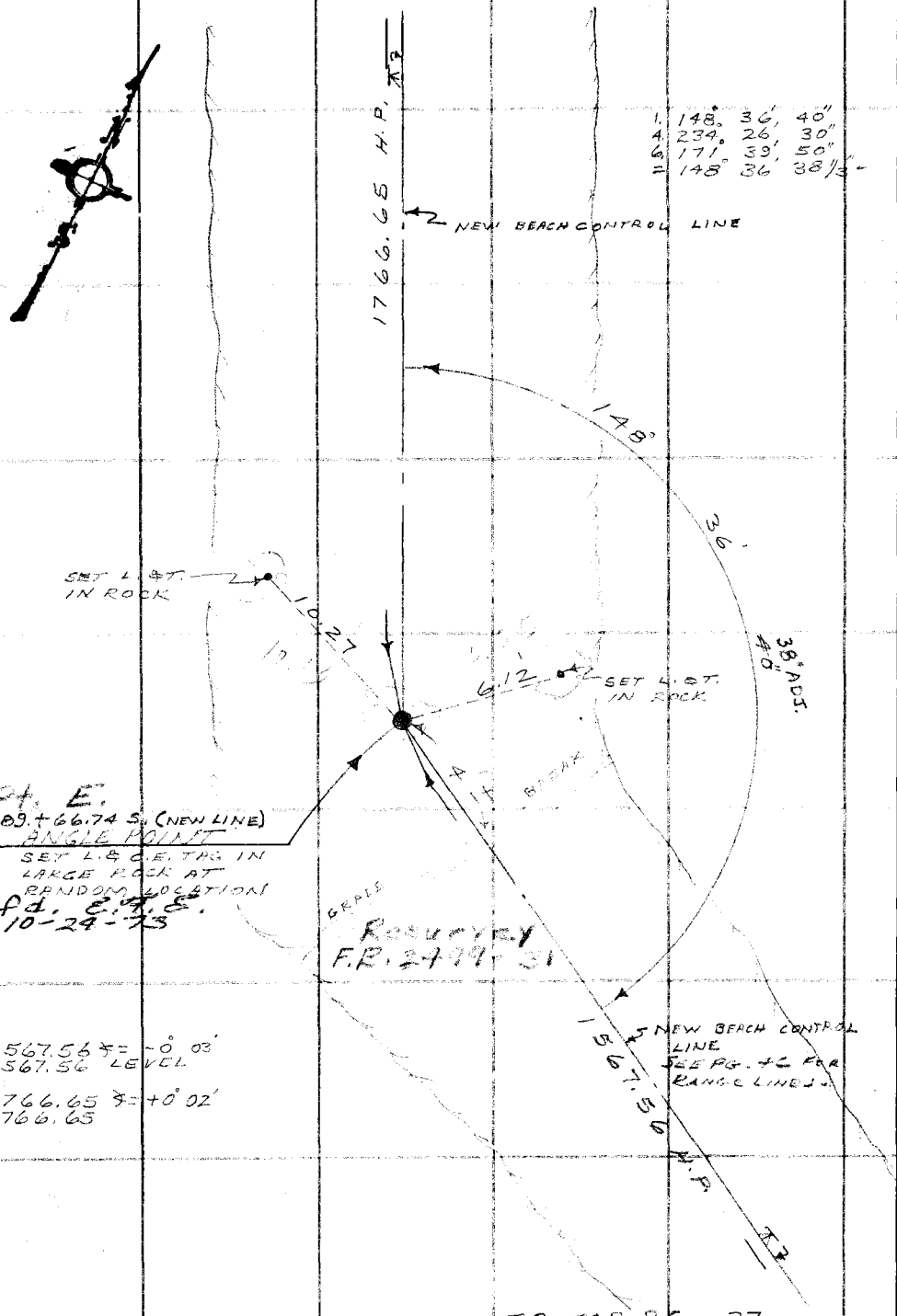
76F309S CE#310 3-68

F. B. 2346 Pg. 38

TO BOT. PG. 39



TO TOP PG. 37

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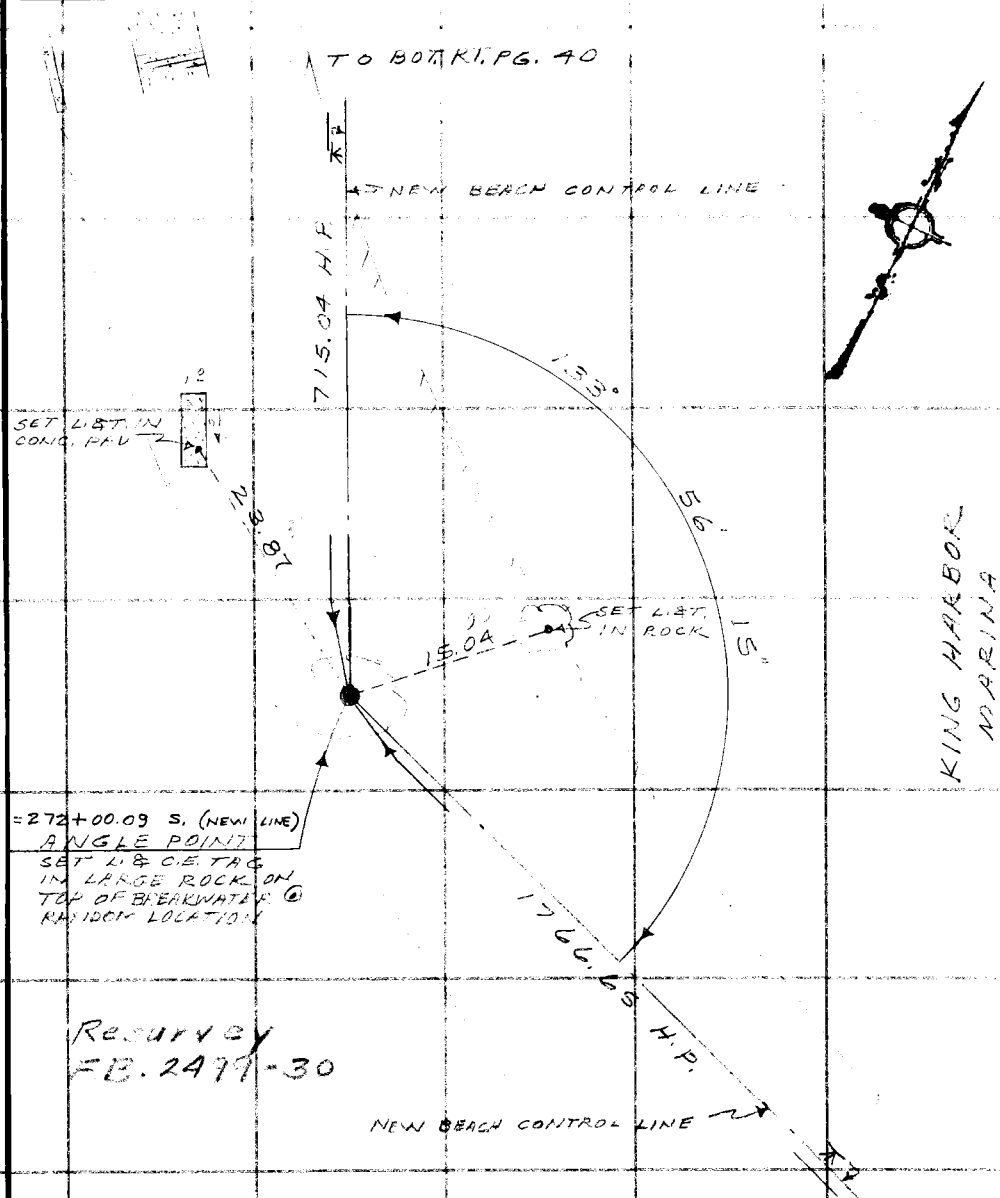
PWFB 0516

112

Notes Ck'd by R. C. BOWERS	Survey of HYDROGRAPHIC SURVEYS
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date
Date	Indexed

F. B. PG.



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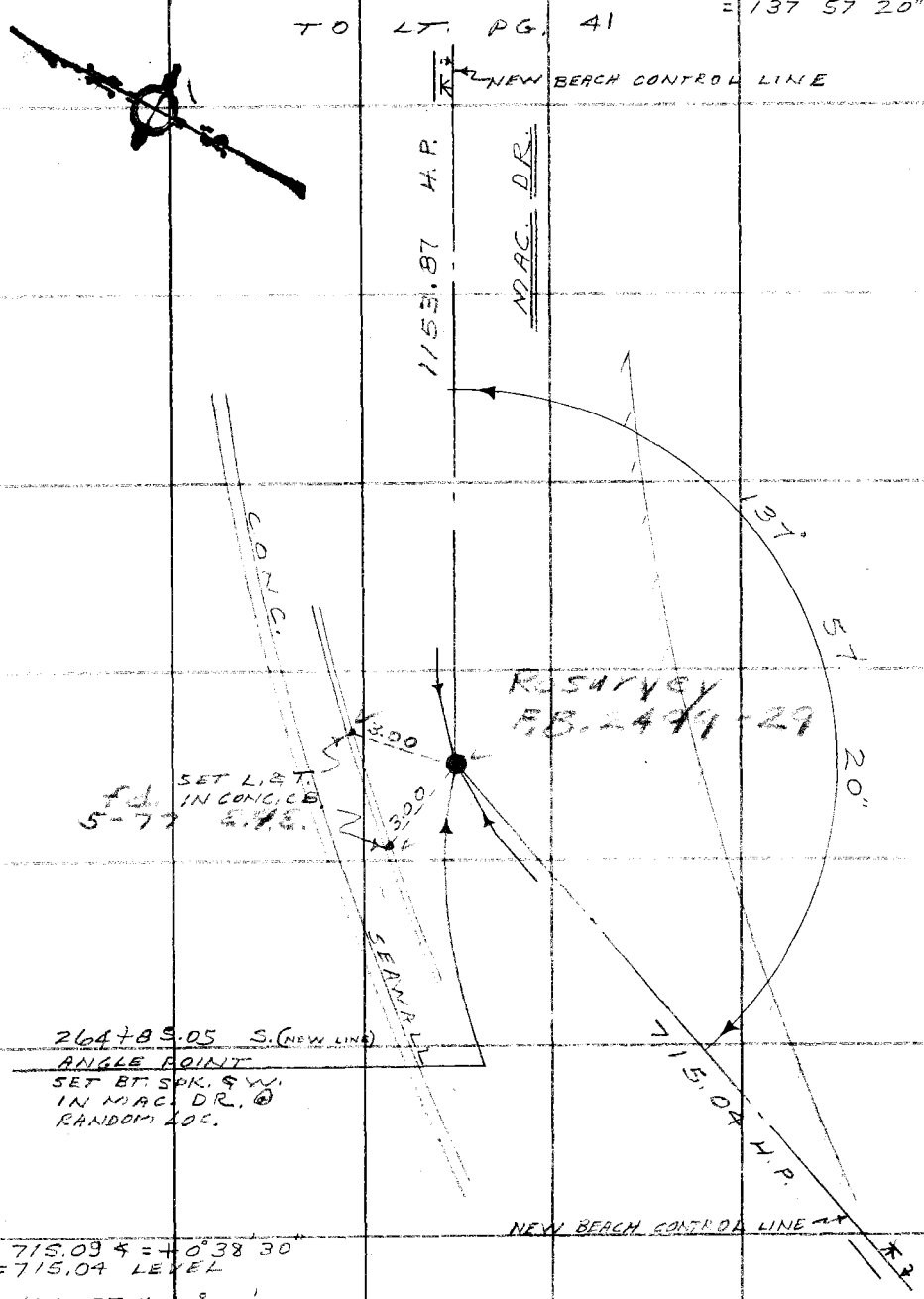
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F. B. 2316 PG. 40

1. 137° 57' 20"
4. 191° 49' 20"
6. 107° 44' 00"
= 137 57 20"



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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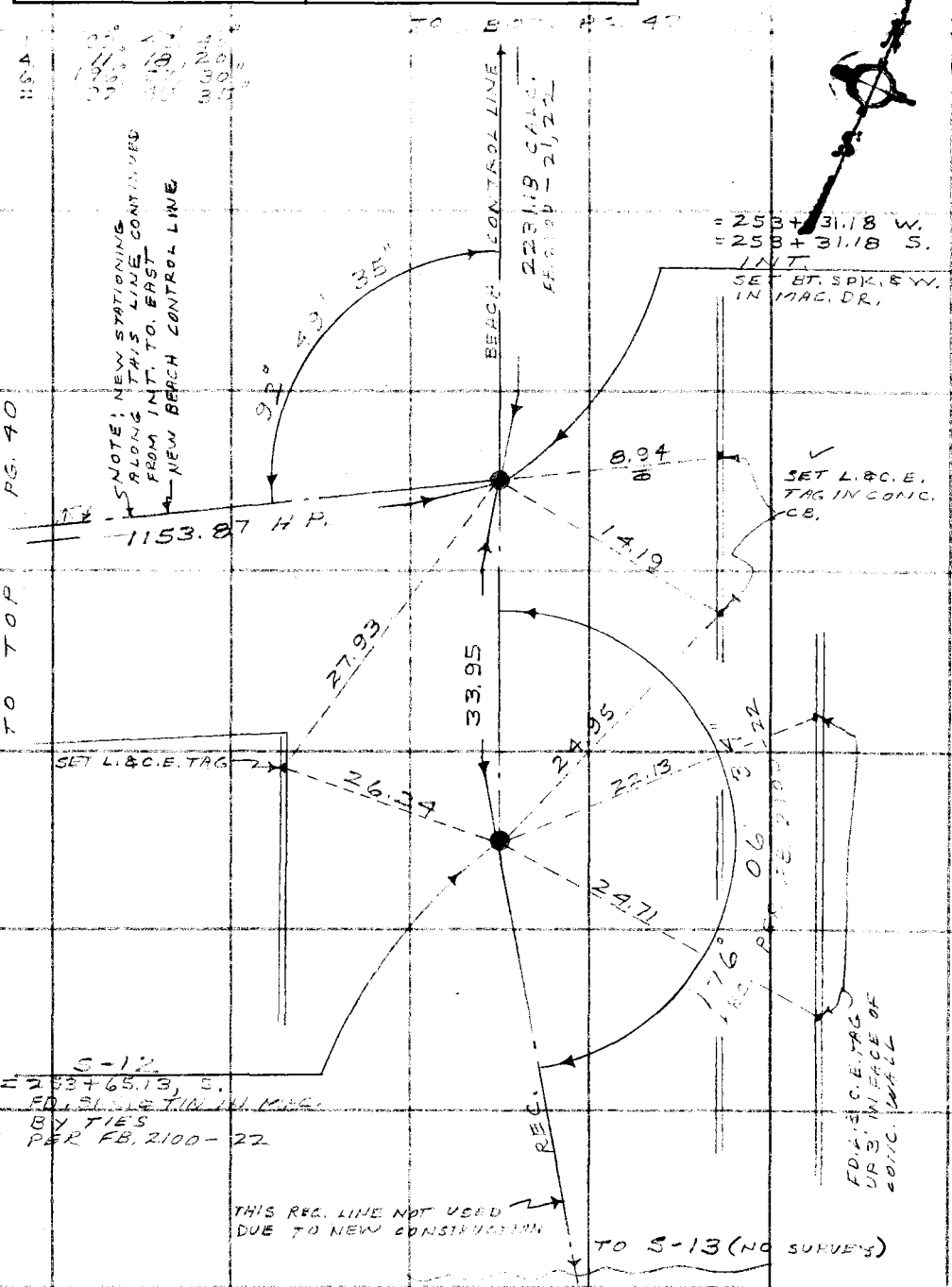
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

PWFB 0516

144

Notes Ck'd by R. C. BOWERS	Survey of HYDROGRAPHIC SURVEYS
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date 2-72
Date	Indexed G. J. C.

F. B. 2316 PG. 41



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PLEASE RETURN TO
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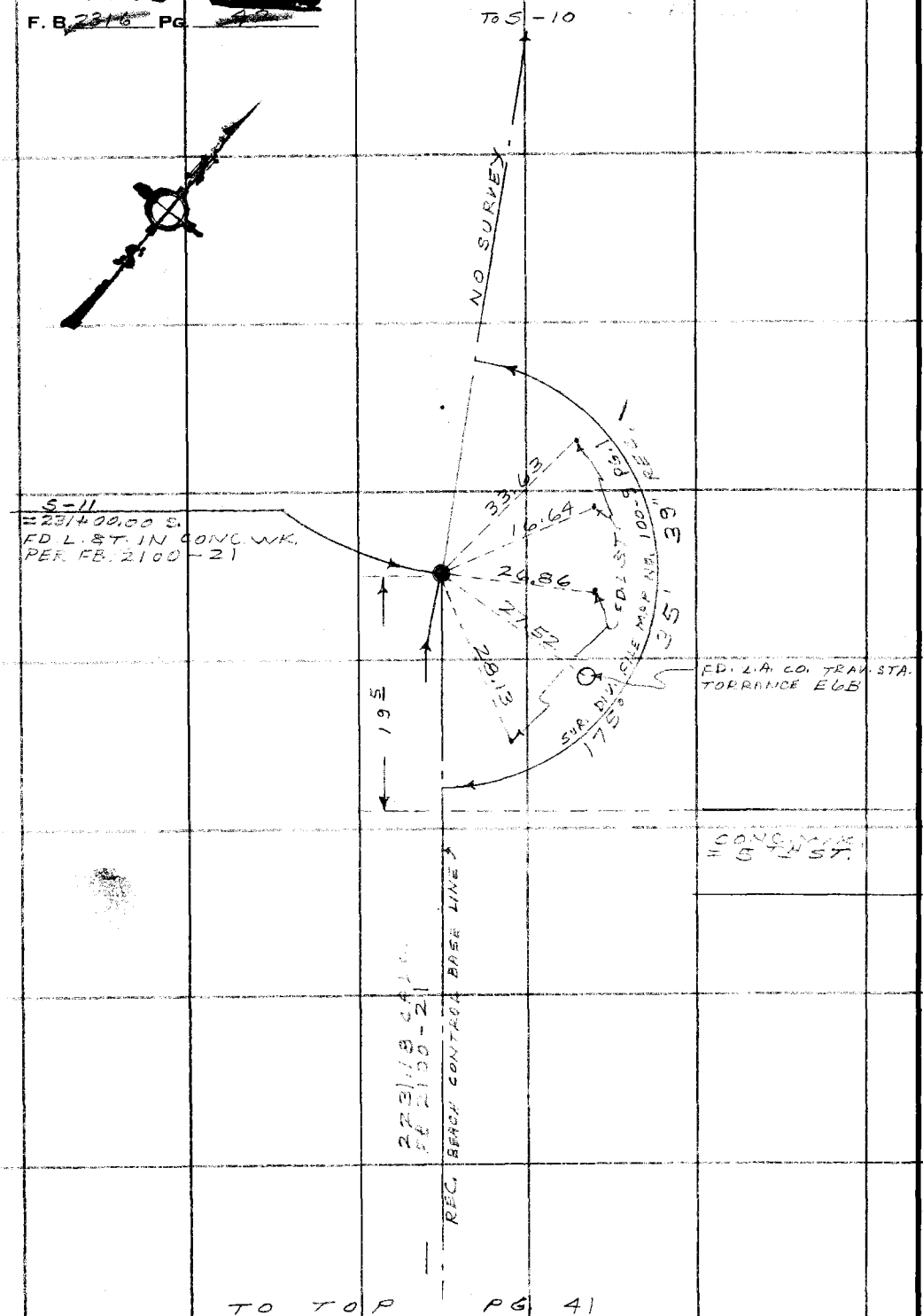
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

PWFB [redacted]

F. B. 2316 PG. [redacted]



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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.

PWFB 0516

145

Notes Ck'd by R. C. BOWERS	Survey of [illegible]
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by [illegible]
Checked	Notes W.A.R. Date 3-72
Date	Indexed

F. B. 2316 PG. 42

J.N. 0300.02

HYDROGRAPHIC SURVEYS

RANGE LINE INTERSECTIONS ON NEW CONTROL LINES BETWEEN S-19 & S-12

NEW CONTROL LINE SURVEYS FB. 2316 PGS 25-42, INC.
OLD " " " " 2100
" " " " SURVEY DIV. FILE MAP # 100-9

INDEX MAP - FB. 2316 PG. 26

RICHARDS
LEGAULT
LIEBER
TURRILL

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

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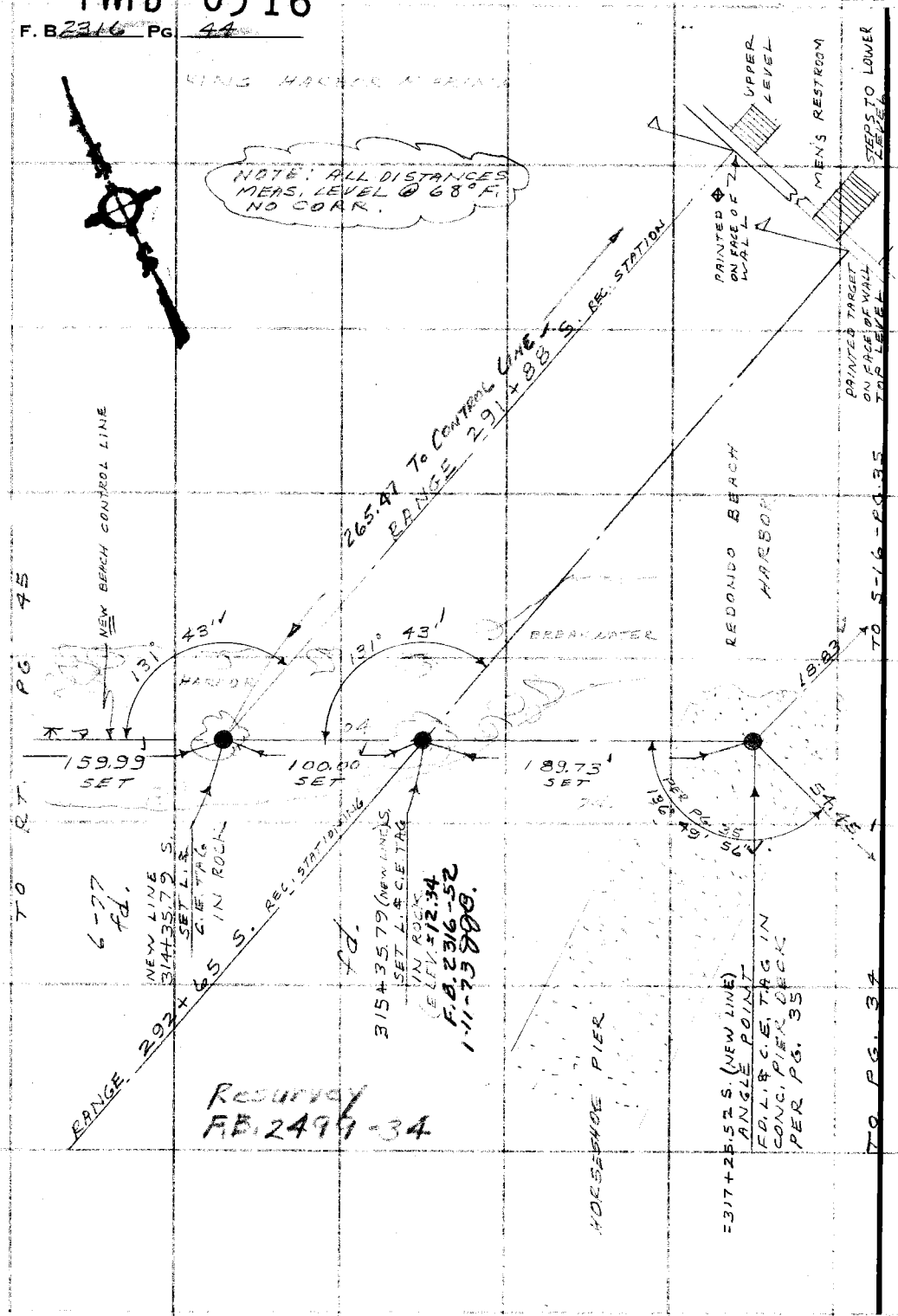
16F309S CE#310 3-68



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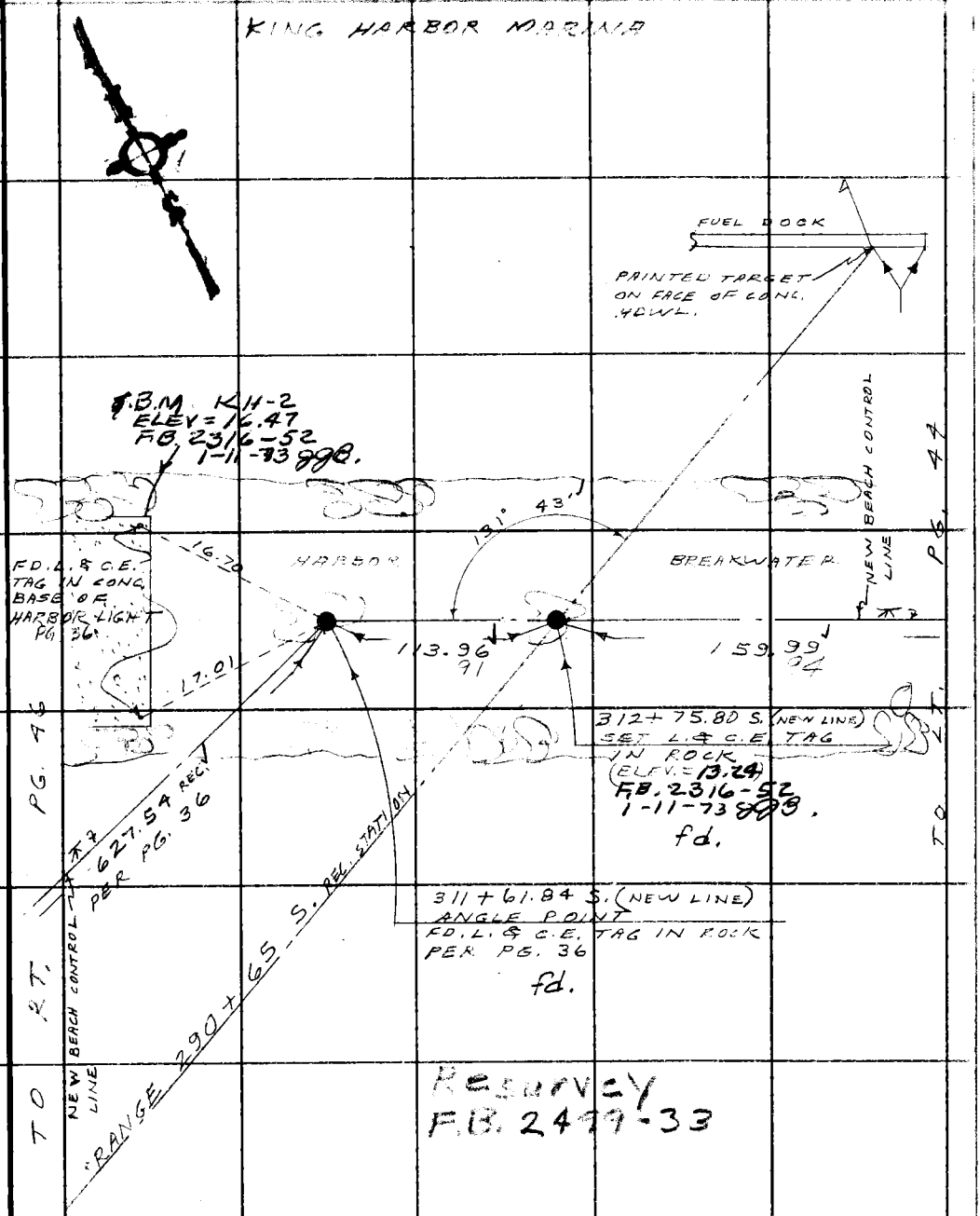
PWFB 0516

147

Notes Ck'd by R. C. BOWERS	Survey of HYDROGRAPHIC SURVEYS
Map No.	JN [illegible] Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date 4-72
Date	Indexed

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

NOTE: ALL DISTANCES MEAS. LEVEL @ 68°F. NO CORR.



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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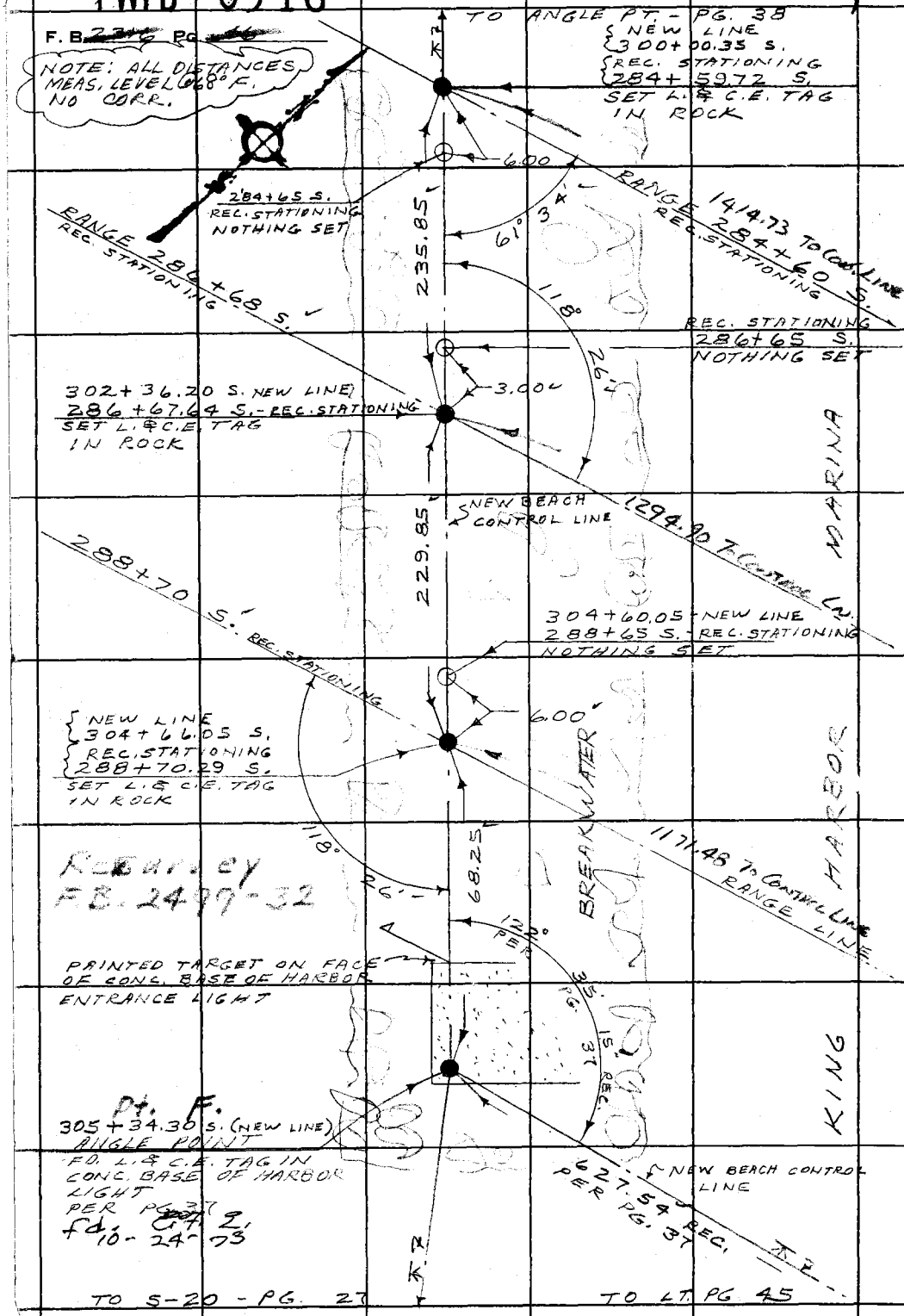
76F309S CE#310 1-65

PWFB 0516

148 , 149



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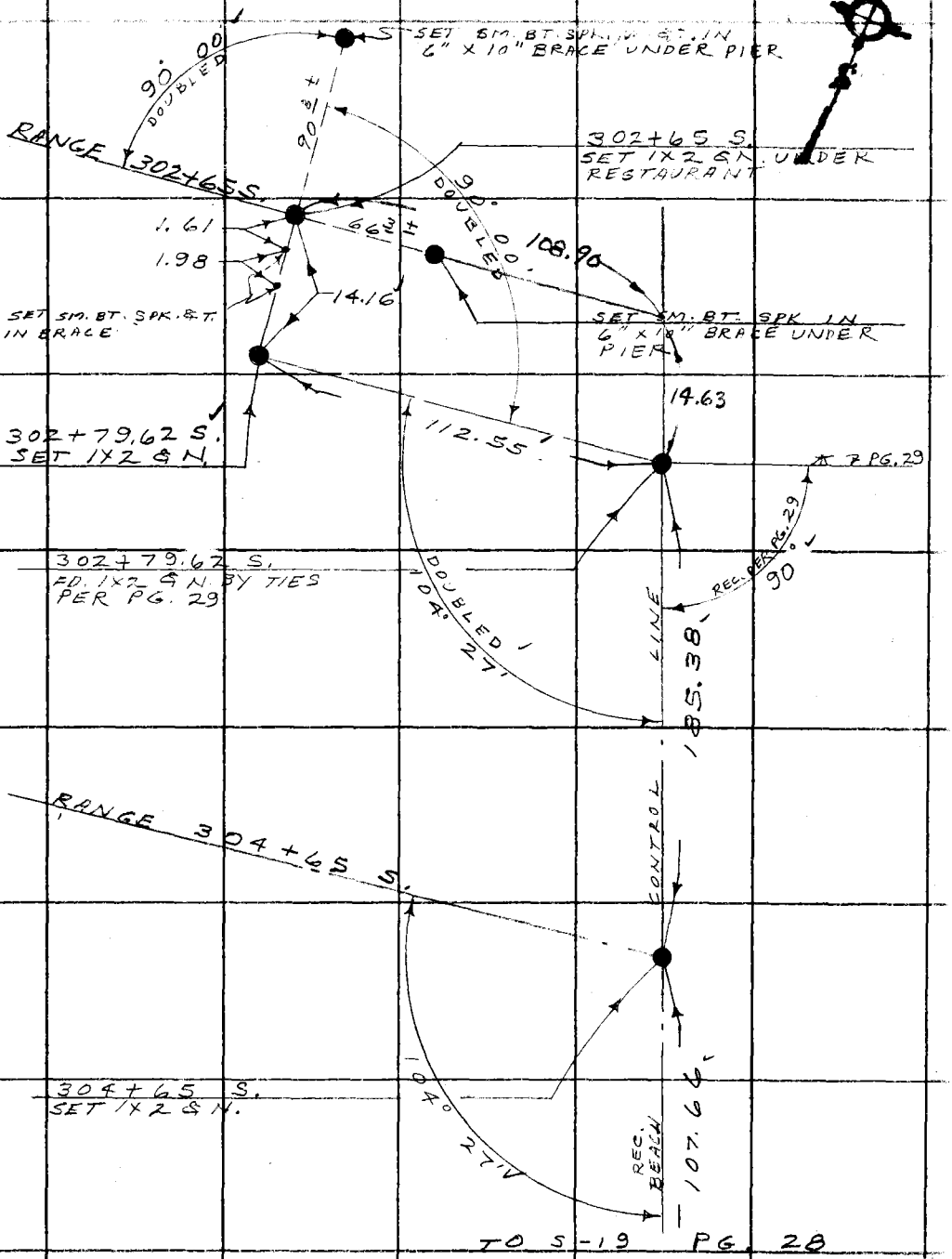
PWFB 0516

150

Notes Ck'd by R. C. BOWERS	Survey of HYDROGRAPHIC SURVEYS
Map No.	JN Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes RICHARDS Date 4-72
Date	Indexed

F. B. PG. 47



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26F3095 CE#310 1-65

76L268– Cdb 8-73

LOS ANGELES COUNTY LETTERGRAM

Mack

TO	Mr. Richard J. Mitchell Division Engineer Survey Division Attnetion: Mr. William Mack	FROM	Kenneth R. Kvammen Design Division

Subject: King Harbor Precise Levels

Date: December 7, 1977

No.: J.N. 0300.02

REQUEST FOR PRECISE LEVELS
AT KING HARBOR
J.N. 0300.02

Please run a precise level net for the control line on the King Harbor breakwater. See F.B. 2316 for the monuments involved in this survey.

Please contact Mr. John Hale of our division for any additional information. His telephone extension is 974-7347.

Kenneth R. Kvammen
Assistant Division Engineer
Design Division

KRK:KRC:lh

cc:CDS,KRK,KRC

SURVEY DIVISION	ACTION	ATTACHMT. TO	INFORMATION
Ichien			
Dutch			
Comments:			

3

English

review with me
W.S.C

Do you remember if a survey was made in 1968 per Ken Kvammen?

RECEIVED
DEC 7 1977
L. A. COUNTY ENGINEER
SURVEY DIVISION

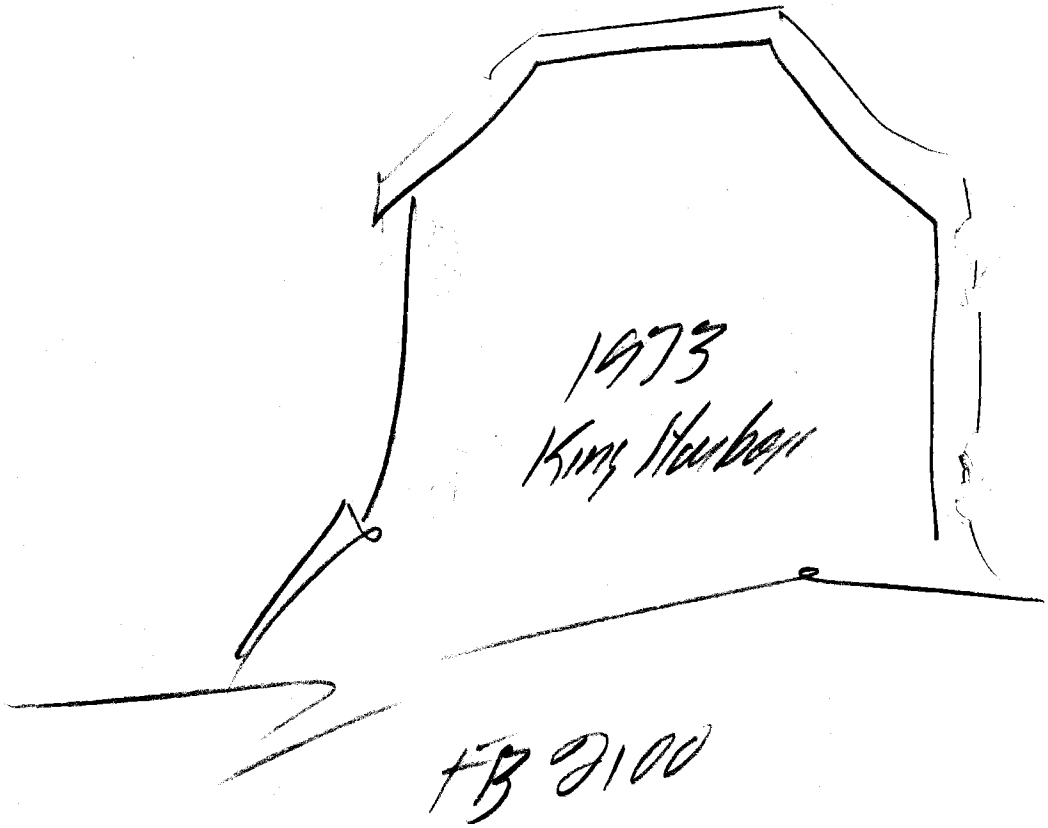
W.S.C

To: Stock

(A)

12-8-77

6967


1973
King Harbor
FB 2100

76L266 PS 3-77

LOS ANGELES COUNTY LETTERGRAM

TO	John McMillan	FROM	G.D. Bailey

Subject: KING HARBOR SURVEY

Date: Dec. 21, 1977

JOB No. 0300.02

Transmitted is:

F.B. 2316: 65-76 — Bench Levels to estab. elev's on Monuments on Breakwater as shown in F.B. 2316 & F.B. 2499.

✓ ✓

F.B. + NOTES + POUCH

ASSIGNED Goss

DATE 12-21-77

G. D. Bailey

G.D. Bailey
Survey Records/Analysis

bj

F. B. 2316 PG. 49

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 8763.02 Division No. 11

X-Sec. No. ____ Notes Chk'd. J. F. McMILLAN Date MAY 8 1973 Checked ____ Date ____ Survey of KING HARBOR SURVEY

Survey by J. BAZEN Notes J.J.B. Date 1-11-73

Map No. ____ Indexed G. M. PALMERO Date JAN [illegible] 1973

J.N. 8763.02

KING HARBOR SURVEY

ADDITIONAL BENCH MARKS
S'LY BREAKWATER AREA

DATUM = M.L.L.W.

REF'S: F.B. 2100-158
F.B. 2823-59, 67,

ELEV.

F. S.

H. I.

1-11-73

B. S.

PARTY
J. BAZEN
E. SHOEMAKER
R. CLIFFORD
J. STROUD.

STATION

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

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

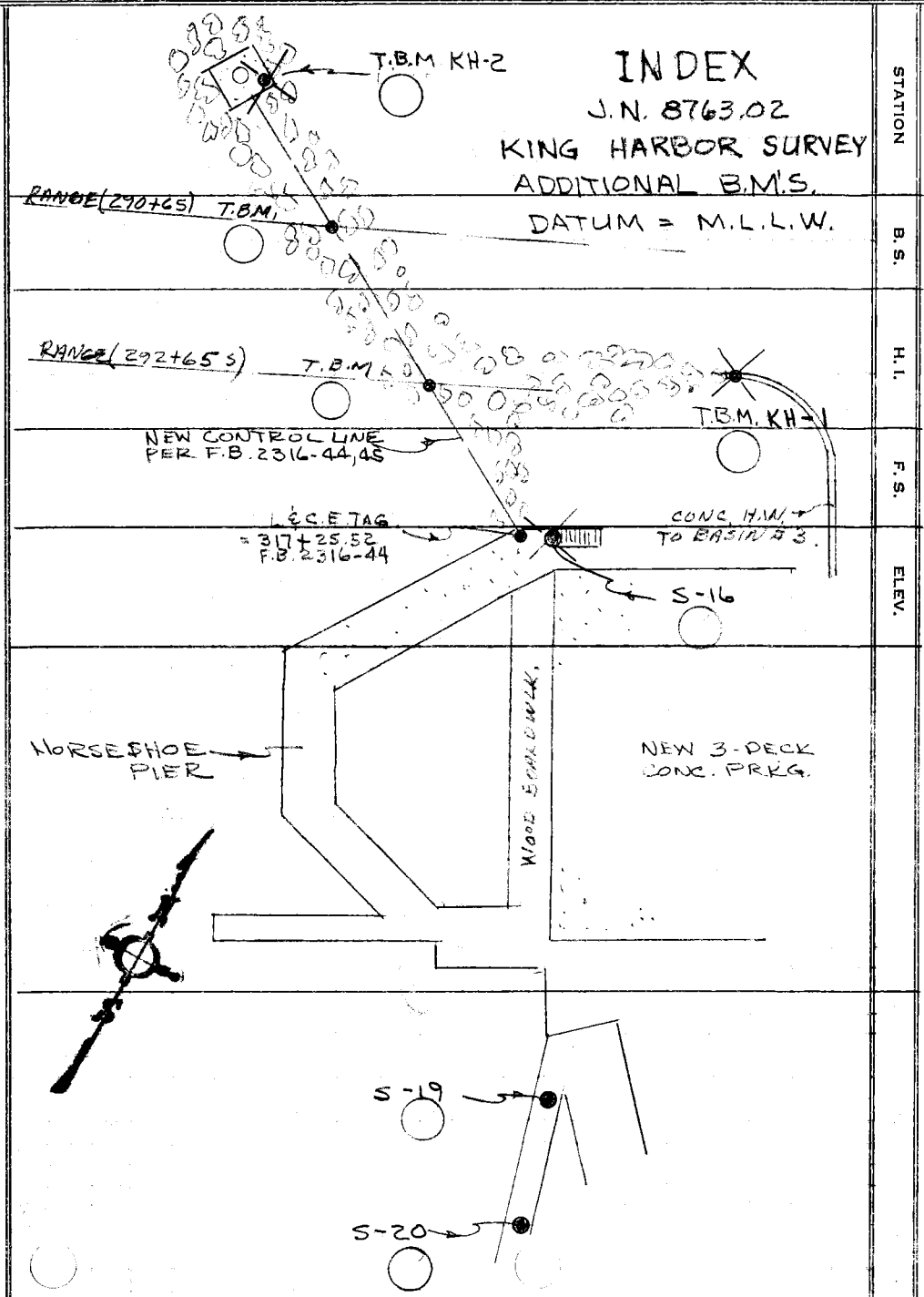
F. B. 2316 PG. 50

Job No. 8763.02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of KING HARBOR SURVEY Date _____ Date _____ No. _____

Survey by J. BAZEN Notes J.J.B. Notes Chk'd. T.F. McMILLAN Checked _____ X-Sec.

Indexed L. M. PALMERI Date _____ Date MAY 8 1973 Date _____ No. _____



Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Datum (M.L.L.W.)
BM S-20	5 952	23 352		17 400	BM S-20 El. 17.400 F.B. 2100-158 Fd. Bt Spk & W. On 2" Sec FB 2100-30
T. P.	5 922	24 990	4 284	19 068	T.P.
BM S-19	5 094	26 678	3 406	21 584	BM S-19 El. 21.565 F.B. 2100-158 Brass Cap Mon. RE 2177 Dn. 3" Per F.B. 2100-29
TP	4 772	26 735	4 715	21.963	TP
TP	5 353	27 268	4 820	21 915	TP
TP	4 231	26 438	5 062	22 207	TP
TP	4 135	25 139	5 438	~~21 000~~ 20 999	TP
BM S-16 (SET)	0 556	20 832	4 859	20 276	BM S-16 EL. 20.28 F.B. At N. end Redondo Beach Horseshoe pier at top of stairs to lower parking area. L & CE Tag in conc. 2.0± N. of S. edge Stairs See F.B. 2316-35
T.P.	1 735	16 495	6 071	14 761	T.P.
BM K.H.-1 (SET)	5 081	16 767	4 810	11.686	B.M. K.H.-1. EL. 11.68 F.B. Kings Harbor Entrance to basin c So. Side, 1.0± E. of W. end bulkhead wall. Spk in lead in conc.
	1 197	17 150	0 814	15 953	T.P.

Note: For new elev.s on S-20, S-19, S-16 & B.M. K.H.-1. See F.B. 2499-65 & 66.

Profile Notes Red ____ Plotted ____ Job No. 8763.02 Division No. ____
No. ____ Date ____ Date ____ Survey of King Harbor
X-Sec. Notes Chk'd. ____ Checked J. E. McMILLAN Survey by J. Bozen Notes E.S. Date 1-11-73
No. ____ Date ____ Date MAY 8 1973 Map No. ____ Indexed M. PALMERI Date JAN 19 1973

F.B. 2316 Pg. 51

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	(DATUM = M.L.L.W)
		17 150			
T.B.M	5 873	18 215	4 808	12 348	T.B.M. El 12.40 F.B. 2823-67
					Range Line 292+65
TBM	4 883	18 125	4 973	13.248	TBM El 12.29 F.B. 2823-59
					Range Line 290+65
(SET) BM K.H-2	1 796	18 267	1 654	16 471	B.M. K.H.2 El. F.B.
					At entrance to Kings Harbor. At N.W.ly end of S.ly Jetty. In S.E. Cor of Conc. base of entrance light #2 C.E. Tag in lead. F.B. 2316-36.
T.P.	4 833	18 075	5 025	13 248	T.P.
T.P.	5 832	18 176	5 731	12 344	T.P.
T.P.	5 594	21 354	2 416	15 766	TP
T.P.	6 107	26 388	1 073	20 281	T.P.
T.P.	5 254	27 408	4 240	22 148	TP
T.P.	5 126	27 049	5 479	21 923	TP
T.P.	4 758	26 73X	5 076	21 973	TP
BM S-19			5 138	21 593	BM S-19 El 21.565 F.B. 2100-158

Appear S-20 is not stable by about .02.
With this info no adj placed on work. [illegible]

F. B. 2316 Pg. 52 | Job No. 8763.02 | Division No. | Notes Red | Plotted | Profile
Survey of King Harbor | Date | Date | No.
Survey by L. Bazin | Notes E. Shoemaker | Notes Chk'd. | Checked J. F. McMILLAN | X-Sec.
Indexed T. M. PALMERI | Date | Date | Date MAY 8 1973 | No.

PWFB 1201

178

Notes Ck'd by	Survey of Hydrosurvey
Map No.	JN 0300.02 Tape 131 Std °F
Office Work	Surveyed by English
Checked	Notes Ed. Date 6-23
Date	Indexed G. J. BAILEY JAN 11 1974

F. B. Pg.

HYDROSURVEY

J.N. 0300.02

Additional
Notes.
Control Line
Recovery.
Z-7 To Z-27.
Lechuza Point
To: Sequit Point.
Per Survey Div.
Map (no number).

June 8, 1973
English
Caro
Tallier
Johnson

Ref.
F.B. 930.
F.B. 2100.

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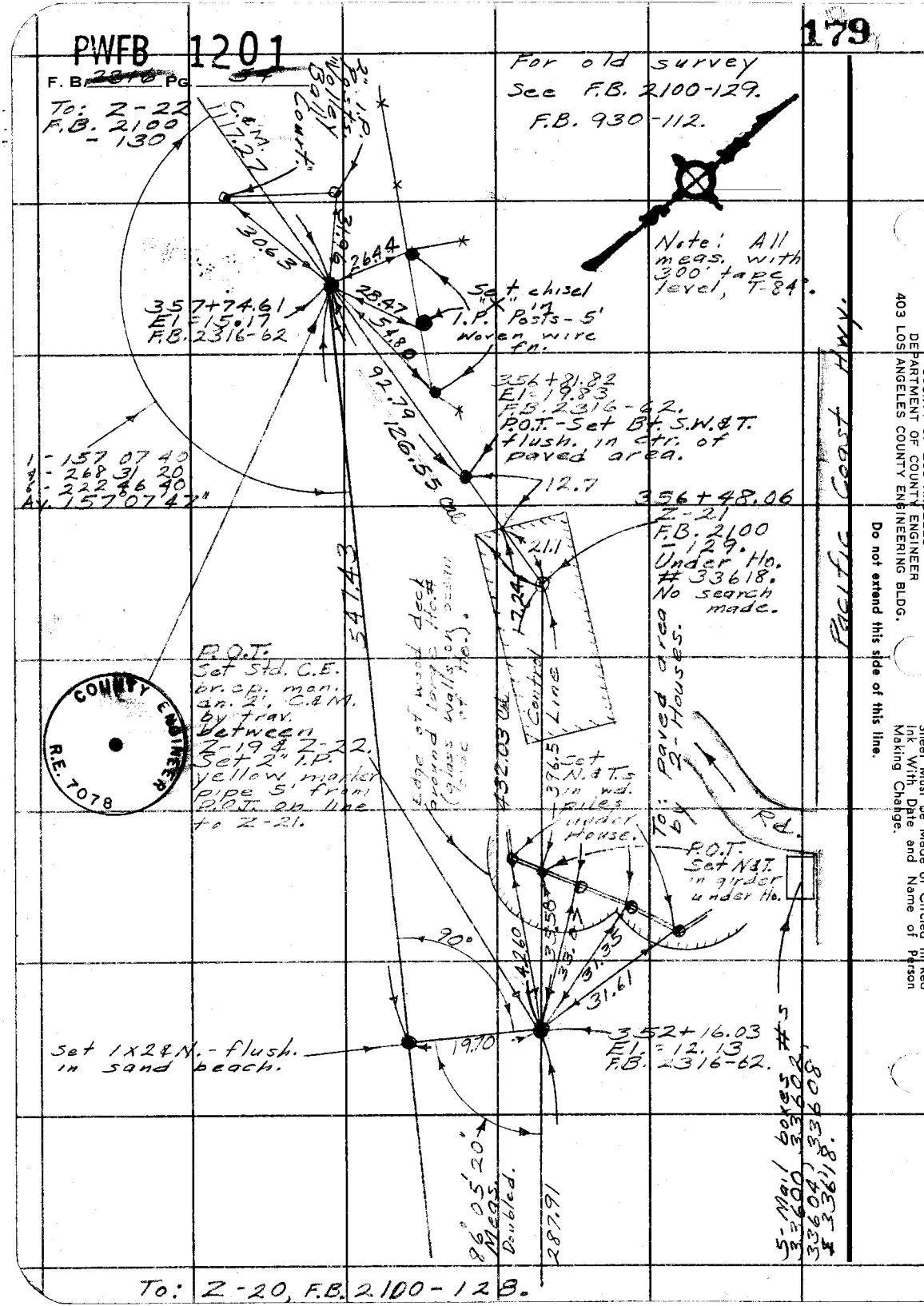
76F309S CE#310 3-68



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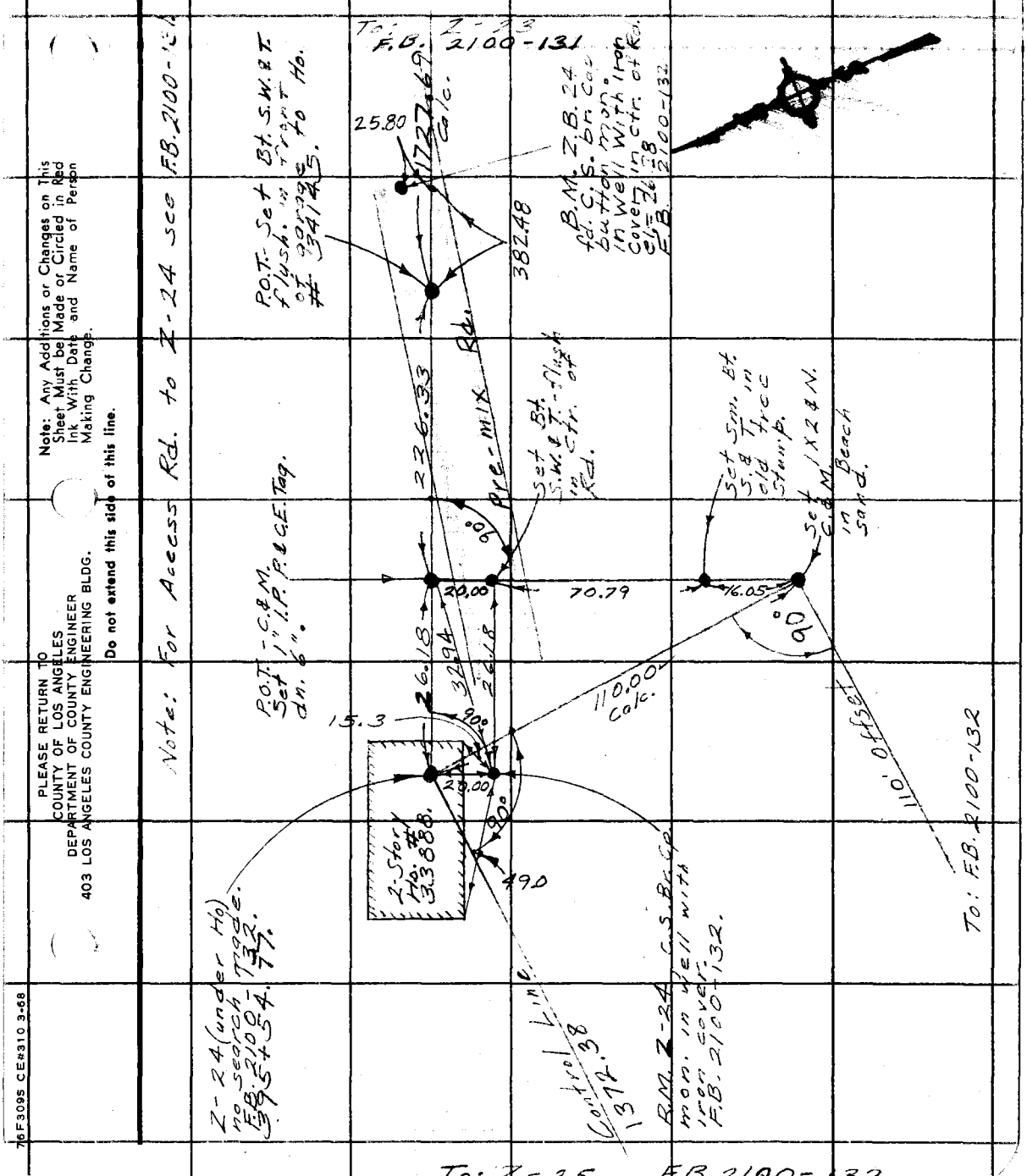
PWFB 1201

180

Notes Ck'd by	Survey of Hydrosurvey
Map No.	JN 2200.32 Tape 131 Std 84 °F
Office Work	Surveyed by English
Checked	Notes Ed. Date 6-73
Date	Indexed G. D. BAILEY JAN 11 1974

F. B. [illegible] PG. 55

level & T - 84°.



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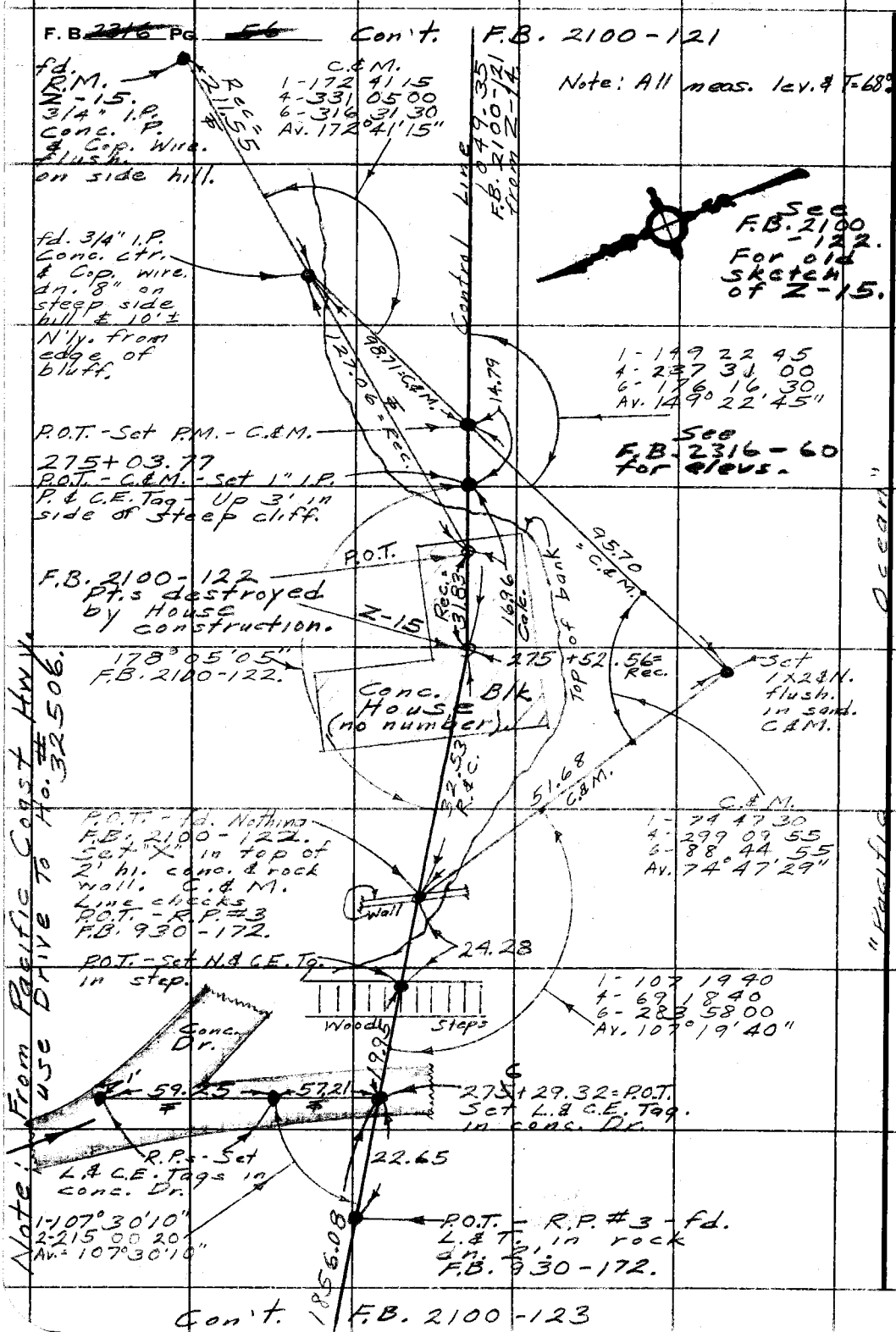
76F309S CE#310 3-68



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PWFB 1201

181

Notes Ck'd by	Survey of Hydrosurvey
Map No.	JN 2500.02 Tape 31 Std 68° F
Office Work	Surveyed by English
Checked	Notes E.A. Date 8-7-73
Date	Indexed G. D. BAILEY JAN 21 1974

F. B. [redacted] PG. [redacted]

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76 F309S CE#310 3-68

From Pacific Coast Hwy. to Z-19 use Drive to Hot 33370 (under const.)

Stucco House

Mac. Dr.

Set Bt. S.W.&T. flush near edge of Dr.

Set L.& C.E. Tag. in 3' x 4' rock.

225.41

20° 54' 00"

57.35

1-165 49 20
4-303 17 10
6-274 55 40
Av. 165°49'17"

73°03'30"

F.B. 2100-127.

Con't. F.B. 2100-126 To Z-19.

El = 17.06, Pg. 62. P.O.T. - Set std. C.E. br. cp. mon. dn. 2' Set 2" yellow l.p. marked 5' N'ly. 334+89.91

Note: All meas. Aev. & T=68°

153° 41' 50"
F.B. 2100-127.

285.71

602.29

F.B. 2100-127 For Addit. ties.

Drive

21.19

Set N.&T. in Sm. BP. no #.

(Under construction) A frame type (prefab.) wood House setting on wood blocks.

Z-19
337+75.62
F.B. 2100-127
Std. Bt. S.W.&T.-flush Replaced with std. C.E. br. cp. mon. dn. 2' (mon. el. 24.05, F.B. 2316-62) Reset Bt. S.W.&T. flush in P.M. pvm't. (Z-19 may be destroyed by construction in this area).

45.14

Prod.

R.M. Z-19, fd. c.s. mon. - dn. 2' F.B. 2100-127.

Set N. & C.E. Tag. in 1st Landing of wd. Stairs.

24.75 #

119.69 #

Set N. & C.E. Tag. in first wd. step leading to mechanical iron stairs.

147°10'10"

F.B. 2100.

1-167 52 20
4-311 29 30
6-287 14 10
Av. 167°52'22"

El = 9.67
F.B. 2316-63
337+08.23
P.O.T. - Set std. C.E. br. cp. mon. dn. 2' Set 2" yellow l.p. marked 5' E'ly.

Con't. Pg. 128 - To Z-20

Profile No.	Notes Red	Plotted	0300.02 Job No.	Division No.		F. B. 2916	PG.
	Date	Date	Survey of Hydrosurvey				
X-Sec. No.	Notes Chk'd R. MANOR	Checked	Survey by English	Notes Caro	Date 8-8-73		
	Date Jan 15, 1974	Date	Map No.	Indexed G. D. BAILEY	Date JAN 11 1974		

HYDROSURVEY

J.N. 0300.02

Elevations.
(Datum = M.L.L.W.).

Additional Notes.
Control Line.
Z-7 (Lechuza Pt.).
To
Z-27 (Sequit Pt.).

STATION	B. S.	H. I.	F. S.	ELEV.
	Covy	Johnson	Tullier	Caro	English	August 8, 1973	

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

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76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	Datum = M.L.L.W.
Fd. Z-16				22 64	Z-16, el.= 22.64, F.B. 2100-195.
T.P.	273	25 37	760	17 77	fd. O.S. Mon.-dn. 12"
T.P.	060	18 37	880	9 57	See F.B. 2100-124 for location.
T.P.	529	14 86	586	9 00	1x2 stk.
T.P.	542	14 42	455	9 87	
T.P.	371	13 58	426	9 32	
T.P.	498	14 30	426	10 04	
T.P.	369	13 73	492	8 81	
T.P.	541	14 22	395	10 27	
T.P.	490	15 17	274	12 43	
T.P.	500	17 43	458	12 85	
T.P.	490	17 75	434	13 41	F.B. 2316
T.B.M.	600	19 41	542	13 99	P.O.T. 276+29.32, Pg. 56
	016	14 15			L. & C.E. Tag. in Conc. Dr.
T.P.			540	8 75	F.B. 2100-122
	669	15 44			F.B. 2316
T.B.M.			119	14 25	P.O.T. 275+03.77, Pg. 56
	396	18 21	597	12 24	1" I.P. plug. & C.E. Tag.
T.P.	581	18 05	257	15 48	up 3' in side of Steep Cliff
T.P.	1223	27 71	522	22 49	F.B. 2100-122
	1212	34 61			

F.B. 2316 Pg. 60 | 0300.02 Job No. | Division No. | Notes Red | Plotted | Profile
Survey of Hydrosurvey | Date | Date | No.
Survey by Ehlish | Notes Caro | Notes Checked R. MANOR | Checked | X-Sec.
Indexed G. D. BAILEY | Date JAN 11 1974 | Date Jan 15, 1974 | Date | No.

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	Datum = M.S.L.W.
		34 61			
Z-14			366	30 95	Z-14 el = 30.94, F.B. 2100-194 fd. C.E. Brass Cap Mon., for location see F.B. 2100-121.
Z-10				12 31	Z-10 el = 12.31, F.B. 2100-194 fd. C.S. Brass Cap Mon, for location see
	10 92	23 23			
T.P			113	22 10	F.B. 2100-117
R.M. Z-10	10 30	32 40	611	26 29	R.M. Z-10 fd. C.S. Brass Cap Mon, for location see F.B. 2100-117
R.P. ①			402	28 38	R.P. ①
T.P.	367	32 05	958	22 47	fd. 3/4" I.P. Conc. ctr. & Cop. Wire
	057	23 04			for location see F.B. 2100-117
Z-10			1072	12 32	Z-10 see above
Z-18				19 08	Z-18, el = 19.08, F.B. 2100-126
	080	[illegible]			fd. mon. per F.B. 2100-126
L.P.T. ①			607	13 81	fd. L.P.T. ① in Large rock 20.35 S. from Z-18
					for location see F.B. 2100-12[illegible]

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date Jan 15, 1974 Date ____ Map No. ____ Index ____ Date JAN 11 1974

F. B. ____ PG. ____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	Datum [illegible]
		19 88			
T. P.	4 24	15 48	8 64	11 24	1x2 Stk.
T. P.	4 54	16 14	3 88	[illegible]	1x2 Stk.
T. P.	4 45	17 27	3 32	12 82	1x2 Stk.
T. P.	5 12	19 01	3 38	13 89	1x2 Stk.
P. O. T.	10 61	27 67	1 95	17 06	P.O.T., fd. C.E. br. cp. mon.-dn. 2', F.B. 2316-57.
Z-19	2 08	26 13	3 62	24 05	Z-19, fd. C.E. br. cp. mon.-dn. 2', F.B. 2316-57.
T.P.	1 44	16 22	11 35	14 78	1x2 STK
P.O.T.	5 16	15 83	5 55	10 67	P.O.T. FD C.E. BR. CP. MON-DN 2'. F.B. 2316-57.
T.P.	5 45	17 79	3 49	12 34	1x2 STK
T.P.	4 34	15 92	6 21	11 58	1x2 STK
Z-20	3 46	16 26	3 12	12 80	Z-20-FD L&CE TAG in rock, F.B. 2100-128.
P.O.T.	3 72	16 95	3 03	13 23	P.O.T.-FD L&CE TAG IN STEPS (349+35.69) F.B. 2100-128.
P.O.T.	6 32	18 45	4 82	12 13	P.O.T.-FD. C.E. BR. CP. MON. DN 2' (352+16.03) F.B. 2316-54.
T.P.	6 59	20 52	4 52	13 93	1x2 STK
P.O.T. (Z-21)	0 86	20 69	0 69	19 83	P.O.T.-FD. BS W&T IN MAC DRIVEWAY (356+81.82) F.B. 2316-54
P.O.T. (Z-21)	3 53	18 70	5 52	15 17	P.O.T.-FD. C.E. BR. CP. MON DN. 2' (357+74.61) F.B. 2316-54.
T.P.	4 76	18 49	4 97	13 73	1x2 STK
T.P.	1 62	15 18	4 93	13 56	1x2 STK
T.P.	4 80	14 54	5 44	9 74	" "
R.P. Z-22			1 59	12 95	R.P., el = 12.96, F.B. 2100-130 (tie dist. 3.61 to Z-22).

F. B. 2316 Pg. 62
Job No. 03 00 02
Division No.
Notes Red
Plotted
Profile
Survey of Hydro Survey
Date
Date
No.
Survey by English Notes Carp
Notes Chk'd R. MANOR
Checked
X-Sec.
Indexed G. D. BAILEY
Date JAN 11 1974
Date Jan 15, 1974
Date
No.

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	Datum = M.L.L.W.
Fd. Z-27				33 44	Z-27, el.= 33.441, F.B. 2100-135 & 199
T.P.	2 17	35 61	11 62	23 99	C.S. brass cap mon. - up 1". (5.6 from lifeguard sta.)
T.P.	0 51	24 50	10 71	13 79	1x2 stk.
T.P.	0 18	13 97	2 18	11 79	1x2 stk.
T.P.	4 54	16 33	3 64	12 69	1x2 stk.
T.P.	4 57	17 26	3 40	13 86	1x2 stk.
Fd. Z-26	4 08	17 94	3 21	14 73	Z-26 F.B. 2100-134
T.P.	11 36	26 09	0 41	25 68	1½" I.P. Cem't. plug & C.E. tag. flush
R.M. Z-26	11 99	37 67	1 45	36 22	R.M. Z-26 F.B. 2100-134
					C.S. brass cap mon.-dn. 8", 108.14 N. of Z-26
RM Z-26	5 54	41 76	3 15	38 61	R.M. Z-26 F.B. 2100-134
T.P.	1 82	40 43	12 34	28 09	C.S. brass cap mon. flush, on tan. prod.
T.P.	0 21	28 30	11 47	16 83	1x2 stk.
T.P.	4 05	20 88	3 16	17 72	1x2 stk.
T.P.	5 67	23 39	6 24	17 15	1x2 stk.
T.P.	3 38	20 53	6 36	14 17	1x2 stk.
T.P.	4 34	18 51	3 98	14 53	1x2 stk.
T.P.	4 78	19 31	4 77	14 54	1x2 stk.
T.P.	3 37	17 91	2 48	15 43	1x2 stk.
T.P.	6 51	21 94	0 62	21 32	1x2 stk.
T.P.	10 17	31 49	4 89	26 60	1x2 stk.

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of ____
Notes Date ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 11 1974

F. B. ____ Pg. 63

F. B. 2316 PG. 64

Job No. 0300.02 Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of Hydro Survey Date _____ Date _____ No. _____

Survey by English Notes Caro Notes Chk'd R. MANOR Checked _____ X-Sec.

Indexed G. D. BAILEY Date JAN 11 1974 Date Jan 15, 1974 Date _____ No. _____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
Fd. Z-25	844	3504	468	2660 3036	Datum = M.L.L.W.
					Z-25, El. = 3038 F.B. 2100-133, 198
					C.S. brass cap mon - dn. 14"

Profile No.	Notes Red	Plotted	Job No. 0300.02	Division No.	F. B. 2316 PG. 65
	Date	Date	Survey of King Harbor		
X-Sec. No.	Notes Chk'd.	Checked	Survey by English	Notes Ed.	Date 12-14-77
	Date	Date	Map No.	Indexed [redacted]	Date DEC 21 1977

KING HARBOR
PRECISE LEVELS

J.N. 0300.02

M.L.L.W. Elevations
of monuments on
King Harbor
Breakwater
as shown in
F.B. 2316 &
F.B. 2499.

Dec. 14, 1977
English
Caro
Stroud
Whittaker

Work requested by Ken Krammen
Design Division.

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

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76-L-298 CE 307 5-66

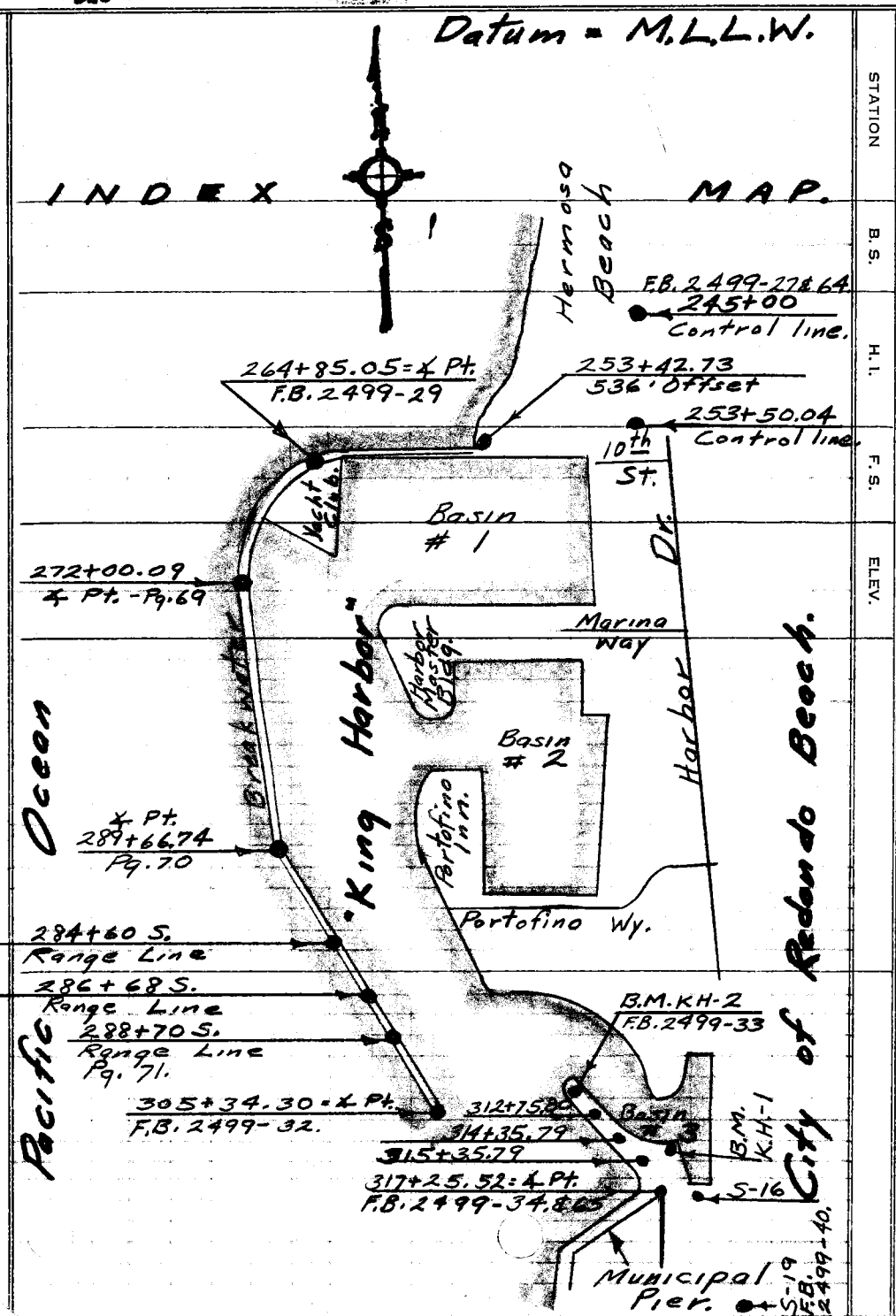
F. B. 2316 Pg. 66 | 0300.02

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

Survey of King Harbor Date ____ Date ____ No. ____

Survey by English Notes Ed. Notes Chk'd. ____ Checked ____ X-Sec.

Indexed DEC 21 1977 Date R. D. BAILEY Date ____ Date ____ No. ____



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

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76-L-298 CE 307 5-66

76S420 S & E-353 4-54

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Datum = M.L.L.W.

Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION Datum = M.L.L.W.
245+00	16.661	(Begin Circuit)				245+00, el.= 16.661 (Field el.)
	5.623		5.414			F.B. 2499-27 & 64, fd. L & T.
T	22.284	-0.030'	-0.032'			Control line sta. in The
	5.653		5.446			
T.P.	16.631					Spk.
	5.603		5.408			
T	22.234	+0.025	+0.024			
	5.578		5.384			
T.P.	16.656					"
	5.155		4.946			
T	21.811	-2.291'	-2.292'			
	7.446		7.238			
T.P.	14.365					"
	3.738		3.563			
T	18.103	-1.172'	-1.171'			
	4.910		4.734			
T.P.	13.193					"
	7.937		7.814			
T	21.130	+2.875'	+2.874'			
	5.062		4.940			
N-12 (Tie)	16.068					253+50.04 = P.O.T. on Control
	2.074		1.962			Line, L & C.E. Tag in curb.
T	18.142	-4.580'	-4.582'			F.B. 2499-28. El. = 16.069
	6.654		6.544			F.B. 2499-65.
T.P.	11.488					
	5.063		4.924			
T.	16.551	-0.705	-0.708'			
	5.768		5.632			
T.P.	10.783					

NOTES RED. _____ JOB NO. 03002 SURVEY OF King Harbor
DATE _____ SURVEY BY English
NOTES CHKD. _____ NOTES BY Ed & Cro DATE 12-14-77
DATE 12-21-77 INDEXED DEC 21 1977 DATE [illegible]

F.B. 2316 PG. 67

768420 S & E-353 4-54

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JOB NO. 0300.02 SURVEY OF King Harbor NOTES RED. DATE
SURVEY BY English NOTES CHKD. R. GOSS
NOTES BY Ed & Caro DATE 12-77 DATE 12-21-1977
INDEXED [illegible] DATE DEC 21 19[illegible]

F.B. 2316 PG. 68

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	Datum = DESCRIPTION M.L.L.W.
T.P.	10.783					Spk.
	5.746		5.627			
⊼	16.529	+1.170	+1.169			
	4.576		4.458			
253+42.73	11.953					253+42.73, 536' Offset, L & C.E. Tag
	5.378		5.312			in curb. F.B. 2499-27 & 65.
⊼	17.331	-0.166	-0.165			
	5.544		5.477			
T.P.	11.787					Spk.
	6.474		6.357			
⊼	18.261	+2.587	+2.585			
	3.887		3.772			
T.P.	14.374					"
	5.415		5.297			
⊼	19.789	+0.237	+0.235			
	5.178		5.062			
264+85.05	14.611					264+85.05 = ∡ Pt., Bt. S.W. & T. in
	4.667		4.513			paved Parking Lot. F.B. 2499-29.
⊼	19.278	-1.179	-1.179			
	5.846		5.692			T.B.M.
T.B.M.	13.432					∡ Pt. - Tie (dist. = 60.65) L & C.E. Tag
	5.554		5.405			in conc. Street Light Base.
⊼	18.986	+0.730	+0.731			F.B. 2499-29.
	4.824		4.674			
T.P.	14.162					Spk.
	6.834		6.884			
⊼	20.996	+6.502	+6.499			
	0.332		0.385			
T.P.	20.664					Rock

76S420 S & E-353 4-54

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NOTES RED ____ JOB NO. 0300.02 SURVEY OF King Harbor
DATE ____ SURVEY BY English
NOTES CHKD. [illegible] NOTES BY Ed. Q Caro DATE 12-77
DATE 12-21-1977 INDEXED G. D. BAILEY DATE [illegible]

F.B. 2316 PG. 69

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	Datum: DESCRIPTION M.L.L.W.
T.P.	20.664					Rock
	7.783		7.888			
⊼	28.447	+2.140	+2.140			
	5.643		5.748			
T.P.	22.804					Rock
	5.208		5.018			
⊼	28.012	-0.612	-0.612			
	5.820		5.630			
272+00.09	22.192					272+00.09 = ∡ Pt., L. & C.E. tag in rock.
	4.715		4.795			F.B. 2499-30.
⊼	26.907	-0.123	-0.123			
	4.838		4.918			
T.P.	22.069					Rock
	5.225		5.264			
⊼	27.294	+0.401	+0.402			
	4.824		4.862			
T.P	22.470					"
	4.937		4.783			
⊼	27.407	-0.553	-0.552			
	5.490		5.335			
T.P.	21.917					"
	5.250		5.085			
⊼	27.167	-0.598	-0.598			
	5.848		5.683			
T.P.	21.319					"
	6.114		5.948			
⊼	27.433	+0.216	+0.216			
	5.898		5.732			
T.P.	21.535					"

76S420 S & E-353 4-54

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JOB NO. 0300.02 SURVEY OF King Harbor NOTES RED. DATE
SURVEY BY English NOTES CHKD. C. R. GOSS
NOTES BY Ed. & Caro DATE 12-77 DATE 12-21-1977
INDEXED [illegible] DATE DEC 21 1977

F.B. 2316 PG. 70

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	Datum = DESCRIPTION M.L.L.W.
T.P.	21.535					Rock
	5.806		5.587			
⊼	27.341	+0.224	+0.227			
	5.582		5.360			
T.P.	21.759					"
	4.070		3.857			
⊼	25.829	-2.390	-2.390			
	6.460		6.247			289+66.74 = ∡ Pt., L.& C.E. Tag in rock.
289+66.74	19.369					F.B. 2499-31.
	1.935		1.788			
⊼	21.304	-6.218	-6.218			
	8.153		8.006			
T.P.	13.151					Rock
	4.504		4.325			
⊼	17.655	-0.318	-0.318			
	4.822		4.643			
T.P.	12.833					"
	4.827		4.918			
⊼	17.660	-0.576	-0.574			
	5.403		5.492			
T.P.	12.257					"
	5.150		4.897			
⊼	17.407	+1.170	+1.170			
	3.980		3.727			
T.P.	13.427					"
	5.218		5.092			
⊼	18.645	-1.326	-1.336			
	6.544		6.428			
T.P.	12.101					"

76S420 S & E-353 4-54

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NOTES RED. DATE
NOTES CHKD. G. R. SOUZA
DATE 12-21-1977 INDEXED G. D. BAILEY
JOB NO. 0300.02
SURVEY BY English
NOTES BY Ed & Caro DATE 12-77
DATE DEC 2 1977
SURVEY OF King Harbor

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION Datum = M.L.L.W.
T.P.	12.101'					Rock
	5.828		5.388			
⊼	17.929'	+0.410'	+0.410'			
	5.418		4.978			
284+60 S.	12.511'					284+60 S., Range Line Sta.
	5.363		5.498			L.& C.E. Tag in rock.
⊼	17.874'	+0.716'	+0.714'			F.B. 2499-31.
	4.647		4.784			
T.P.	13.227'					Rock
	5.487		5.593			
⊼	18.714'	+0.011'	+0.011'			
	5.476		5.582			
286+68 S.	13.238					286+68 S., Range Line Sta.
	5.122		4.880			L.& C.E. Tag in rock. F.B. 2499-32.
⊼	18.360'	-0.686	-0.687'			
	5.808		5.567			
288+70 S.	12.552'					288+70 S., Range Line Sta.
	5.823		5.980			L.& C.E. Tag in rock. F.B. 2499.32.
⊼	18.375'	+4.430	+4.428			
	1.393		1.552			
305+34.30	16.982'					305+34.30 = ∡ Pt., L.& C.E. Tag in
	1.023		0.822			Harbor Light Base. F.B. 2499-32.
⊼	18.005'	-3.871	-3.871'			
	4.894		4.693			
T.P.	13.111'					Rock
	5.177		4.937			
⊼	18.288	+0.085	+0.085'			
	5.092		4.852			
T.P.	13.196'					Rock

F.B. 2316 PG. 71

76S420 S & E-353 4-54

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

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Do not extend notes this side of this line

Datum = M.L.L.W.

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	13.196					Rock
	4.504		4.228			
⊼	17.700	-0823	-0.825			
	5.327		5.053			
T.P.	12.373					Rock
	6.130		5.918			
⊼	18.503	-0.374	-0.374			
	6.504		6.292			
T.P.	11.999					Rock
	5.427		5.124			
⊼	17.426	+4.329	+4.330			
	1.098		0.794			
T.P.	16.328					Rock
	5.475		4.960			
⊼	21.803	+3.053	+3.054			
	2.422		1.906			
T.P.	19.381					Rock
	6.468		6.260			
⊼	25.849	+2.332	+2.333			
	4.136		3.927			
T.P.	21.713					Rock
	5.494		5.388			
⊼	27.207	-0.159	-0.160			
	5.653		5.548			
T.P.	21.554					Rock
	6.110		5.988			
⊼	27.664	-0455	-0.457			
	6.565		6.445			
T.P.	21.099					Rock

F.B. 2316 PG. 72

JOB NO. 0300.02 SURVEY OF King Harbor NOTES RED.
SURVEY BY English DATE
NOTES BY Ed & Caro DATE 12-77 NOTES CHK'D R. GOSS
INDEXED G. D. BAILEY DATE DEC 21 19[illegible] DATE 12-21-77

76S420 S & E-353 4-54

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NOTES RED. JOB NO. 0300.02 SURVEY OF King Harbor
DATE SURVEY BY English
NOTES CHKD. C. R. [illegible] NOTES BY Ed. & Caro DATE 12-77
DATE 12-21-1977 INDEXED G. D. BAILEY DATE DEC 21 [illegible]

F.B. 2316 PG. 73

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	Datum =	DESCRIPTION	M.L.L.W.
T.P.	21.099							
	6.020		5.850					
⊼	27.119	+1.014	+1.015					
	5.006		4.835					
T.P.	22.113							
	4.596		4.426					
⊼	26.709	-0.131	-0.131					
	4.727		4.557					
T.P.	21.982							
	4.535		4.660					
⊼	26.517	+0.383	+0.382					
	4.152		4.278					
T.P.	22.365							
	4.542		4.285					
⊼	26.907	-0.538	-0.539					
	5.080		4.824					
T.P.	21.827							
	5.945		5.654					
⊼	27.772	+0.873	+0.870					
	5.072		4.784					
T.P.	22.700							
	0.825		0.688					
⊼	23.525	-7.629	-7.630					
	8.454		8.318					
T.P.	15.071							
	5.430		5.520					
⊼	20.501	-1.465	-1.462					
	6.895		6.982					
T.P.	13.606							

765420 S & E-353 4-54

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JOB NO. 0300.02 SURVEY OF King Harbor NOTES RED DATE
SURVEY BY English Ed. DATE 12-77 NOTES CHKD. G. R. GOSS
NOTES BY DATE DEC 21 1977 DATE 12-21-77
INDEXED G. D. BAILEY

F. B. 2316 PG. 174

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION Datum = M.L.L.W.
T.P.	13.606					
	5.420		5.238			
X	19.026	-0.074	-0.072			
	5.494		5.310			
T.P.	13.532					
	5.410		5.300			
X	18.942	-1.628	-1.626			
	7.038		6.926			
T.P.	11.904					
	5.298		5.177			
X	17.202	-0.132	-0.133			
	5.430		5.310			
T.P.	11.772					
	4.876		4.745			
X	16.648	-0.802	-0.800			
	5.678		5.545			
T.P.	10.970					
	5.910		5.738			
X	16.880	+1.288	+1.290			
	4.622		4.448			
T.P.	12.258					
	6.394		6.286			
X	18.652	+3.801	+3.801			
	2.593		2.485			
N-12 (Tie)	16.059					253+50.04 = P.O.T., See pg. 67.
End of Circuit						

76S420 S & E-353 4-54

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
S-19(Tie)	20.820	(Begin Circuit)				S-19, Tie (dist.= 10.77), L. & C.E. Tg. - F.B. 2499-40.
	5.488		5.330			
⊼	26.308	+0.223	+0.223			
	5.265		5.107			
T.P.	21.043					
	5.433		5.242			
⊼	26.476	-0.042	-0.043			
	5.475		5.285			
T.P.	21.001					
	5.963		5.762			
⊼	26.964	+0.338	+0.337			
	5.625		5.425			
T.P.	21.339					
	7.484		7.377			
⊼	28.823	-2.388	-2.387			
	9.872		9.764			
T.P.	18.951					
	5.983		5.815			
⊼	24.934	+0.176	+0.174			
	5.807		5.641			
317+25.52	19.127					317+25.52 = ∡ Pt., L. & C.E. Tg., F.B. 2499-34.
	5.663		5.482			
⊼	24.790	+0.396	+0.398			
	5.267		5.084			
S-16	19.523					S-16, L. & C.E. Tg. in conc. step. F.B. 2499-34.
	1.758		2.024			
	21.281	-8.584	-8.581			
	10.342		10.605			
B.M. K.H.-1	10.939					B.M. K.H.-1, el.=10.924, F.B. 2499-65

NOTES RED. _____ JOB NO. 0300.02 SURVEY OF King Harbor
DATE _____ SURVEY BY English
NOTES CHKD. G. R. GOSS NOTES BY Ed & Art. DATE 12-77
DATE 12-21-1977 INDEXED G. D. BAILEY DATE DEC 21 1977

F.B. 2316 PG. 75

768420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 0300.02 SURVEY OF King Harbor
SURVEY BY English
NOTES BY Art & Ed. DATE DEC 21 1977
INDEXED G.D. BAILEY DATE
NOTES RED. DATE
NOTES CHKD. C. R. GOSS DATE 12-21-1977
F.B. 2316 PG. 76

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
KH#1	10.939					B.M. KH-1.
	8.923		8.645			
⊼	19.862	+0.626	+0.627			
	8.297		8.018			
315+35.79	11.565					315+35.79, New Line, L.& C.E.
	6.530		6.383			Tag in rock. F.B. 2499-34.
⊼	18.095	+1.087	+1.089			
	5.443		5.294			
314+35.79	12.652					314+35.79, New Line, L.&C.E. Tag
	5.257		4.925			in rock. F.B. 2499-34.
⊼	17.909	-0.210	-0.211			
	5.467		5.136			
312+75.80	12.442					312+75.80, New Line, L.&C.E. Tag
	5.468		5.024			in rock. F.B. 2499-33
⊼	17.910	+3.225	+3.227			
	2.243		1.797			
B.M. K.H.#2	15.667					B.M. K.H.#2, L.& C.E. Tag in Harbor
	3.508		3.664			Light base. F.B. 2499-33.
⊼	19.175	-2.348	-2.343			
	5.856		6.007			
T.P.	13.319					rock.
	6.850		6.610			
	20.169	+6.198	+6.202			
	0.652		0.408			
S-16	19.517					S-16, pg. 75

End of Circuit.