Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed C. Johnson 1-6-54

F. B. 1506 PG. 5

BOOK 8

BEACH EROSION STUDIES

~ SOUNDINGS ~

J.N. 8412

NOVEMBER ~ 1953 ~ DECEMBER

FROM STATION 50+00 S to STATION 505+74.68 N

50+00 S to 85+00 N } Santa Monica Base Line

and 493+00 N to 505+74.68 N } L.A. City + Co. Base Line

FOR ONSHORE SHOTS SEE L.A. CITY ~ F.B.

PARTY

Blanchard
Shoemaker
Uharriet
Goodwin
Kuammen
Oben
Robbins

Microfilmed Feb 88

BOOK 7 = FB 1505
BOOK 9 = FB 1507

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

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

Do not extend notes this side of this line.

F. B. 1506 Pg. 6

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed R. C. Johnson

F. B. 1506 PG. 7

TIDE GAGE

STANDARD TIME

Nov 16 1953

HOUR	TIDE
6 00	5 6
6 30	5 3
7 00	5 0
7 30	4 4
8 00	4 1
8 30	3 5
9 00	3 0
9 30	2 7
10 00	2 1
10 30	1 8
11 00	1 6
11 30	1 5
12 00	1 5

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725 LOS ANGELES COUNTY
ENGINEERING BLDG.

78F3095 247 2-51

F.B. 1505 PG. 8

TIDE GAGE

STANDARD TIME

NOV 23 1953

TIME	GAGE
7 00	4.5
7 30	5.1
8 00	5.3
8 30	5.9
9 00	6.3
9 30	6.5
10 00	6.5
10 30	6.4
11 00	6.0
11 30	5.6
12 00	5.2
12 30	4.6

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F. B. 1506 PG.

Notes Ck'd by	Survey of
Map No.	W. O. ipe No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

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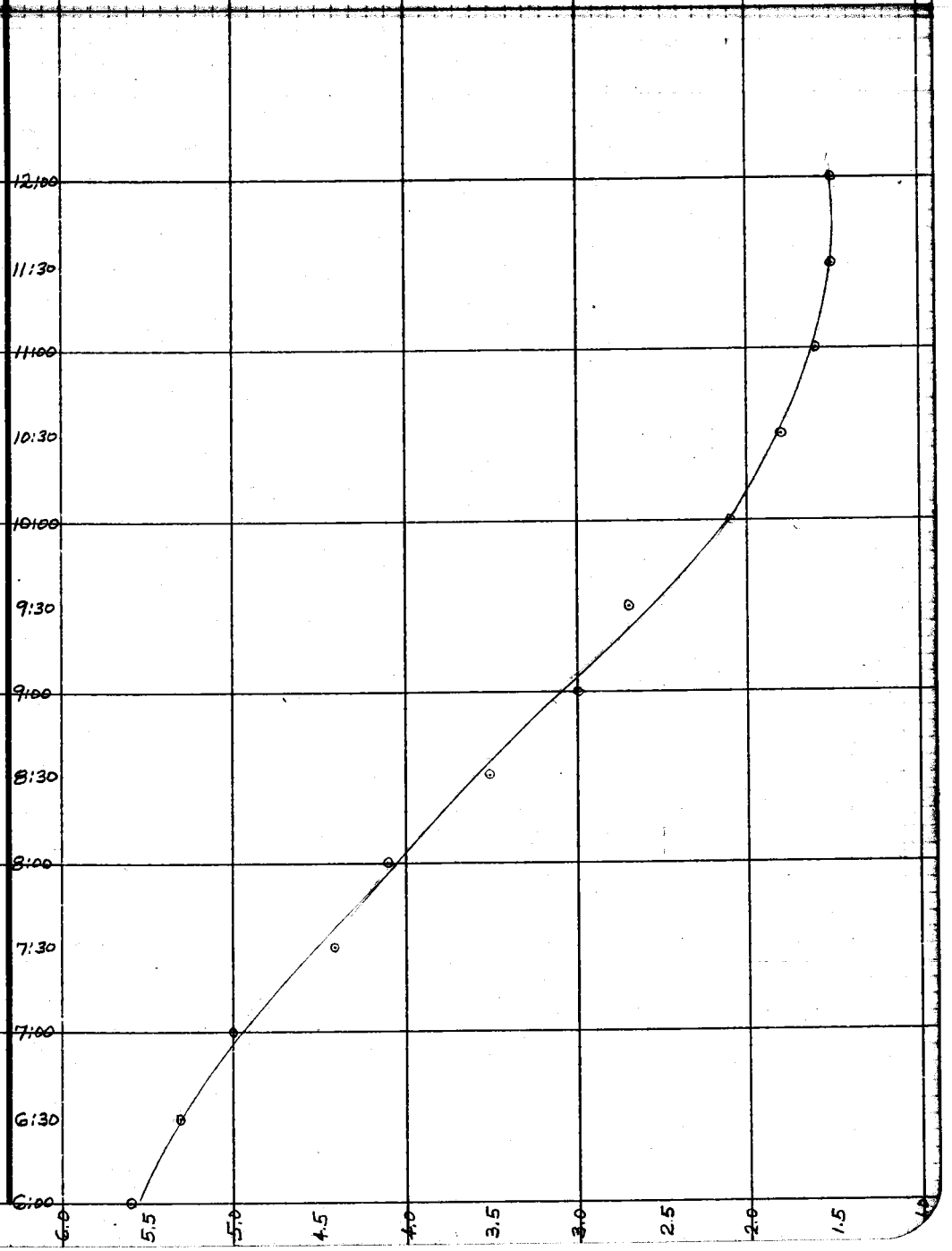
726 LOS ANGELES COUNTY
ENGINEERING BLDG.



75F3098 247 4-53

F B. 1506 PG.

November 23, 1953

7.0 6.5 6.0 5.5 5.0 4.5 4.0

13:00
12:30
12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00

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726 LOS ANGELES COUNTY
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76L298 307 4-50

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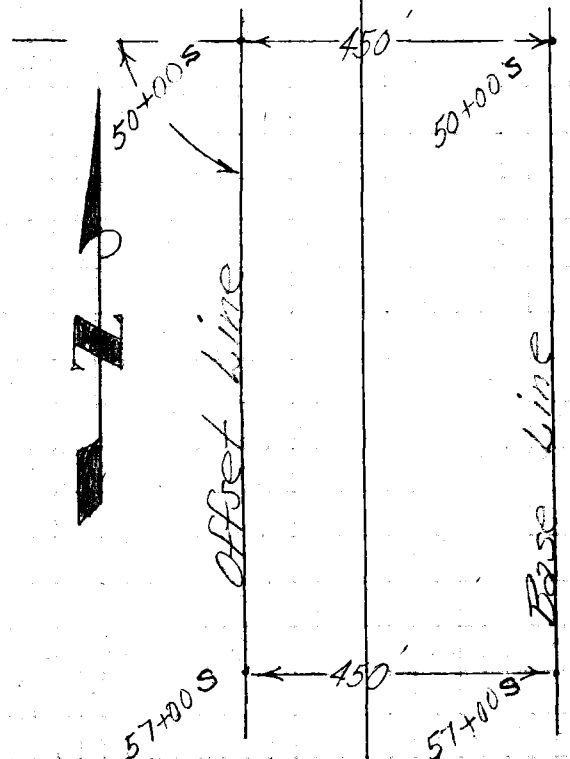
Do not extend notes this side of this line.

Range - 50+00 S

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At	On	# Color	Time	Hor. Ang.
50+00 S 450 Off	1	B & W	6:56	90° 00'
	2	R		"
	3	Y		"
	4	B & W	7:00	"
	5	R		"
	6	Y		"
	7	B & W	7:03	"
	8	R		"
	9	Y		"
	10	B & W	7:06	"
	11	R		"
	12	Y		"
	13	B & W	7:08	"
	14	R		"
	15	Y		"
	16	B & W	7:10	"
	17	R		"
	18	Y		"
	19	B & W	7:13	"
	20	R		90° 00'

57+00 S 450 Off

Remarks



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 9
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD Notes CES Date 11-16-53
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 1506 Pg. 10 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Study | Date | Date | No.
Survey by F.H. Richmond | Notes Shoemaker | Notes Chkd. | Checked | X-Sec.
Indexed C. Johnson | Date | Date | Date | No.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 50+00 S.
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		90° 00'	
	22	B & W	7:15	89° 57'	
50+00 S 450' Offset	23	R		90° 00'	
57+00 S 450' Offset	24	Y		"	

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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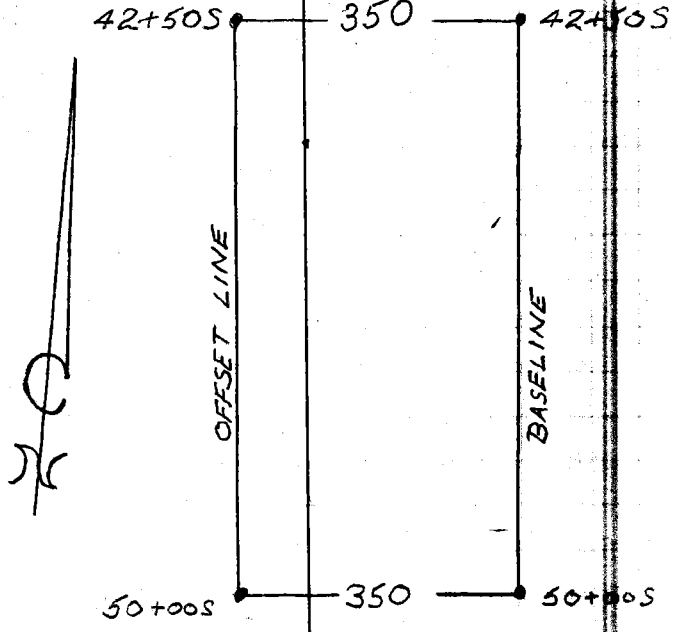
Do not extend notes this side of this line.

CUT-IN 50+00S

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. Sight At	On	#	Color	Time	Hor. Ang.
350 OFFSET	350 OFFSET	1	B+W	6 55	71° 22'
		2	R		70 15'
		3	Y		68° 49'
		4	B+W	6 59	67° 26'
		5	R		66° 04'
		6	Y		64° 49'
		7	B+W	7 02	63° 32'
		8	R		61° 06'
		9	Y		59° 41'
42+50S	50+00S	10	B+W	7 05	58° 17'
		11	R		56° 21'
		12	Y		54° 11'
		13	B+W	7 07	52° 28'
		14	R		49° 58'
		15	Y		48° 01'
		16	B+W	7 09	46° 26'
		17	R		45° 00'
		18	Y		42° 51'
		19	B+W	7 11	41° 06'
		20	R		39° 28'

Remarks



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 11

No. ____ Date ____ Date ____ Survey of REACH EROSION STUDIES

X-Sec. Notes Chkd ____ Checked ____ Survey by E. H. BLANCHARD J.M.U. Date 11-16-53

No. ____ Date ____ Date ____ Map No. ____ Checked Johnson Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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F.B. 1506 PG. 12

Job No. 8412 Division No. Profile

Survey of BEACH EROSION STUDIES No. X-Sec.

Survey by F. H. BLANCHARD Notes Red. Plotted

Notes FHB Date Date

Indexed C. Johnson Notes Chkd. Checked

Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		37° 13		
		22	B&W	7:13	35° 31		
		23	R		35° 23		
		24	Y		33° 05		
		25	B&W				
42+50 =	350' W offset						
	350' W offset						
	50+00 ?						

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

353+76.01 N

Boat 50+00 S (S.M.)

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom Tide	ELEV.	Adj. Depth	SM Base	Remarks L.A. Basic
1	B+W	6:56	32.4 30.8	31.3	5.0	26.3	2573	2404
2	R		31.0 29.2	30.3		25.3	2436	2267
3	Y		31.1 29.9	29.1		24.1	2298	2129
4	B+W	6:57	29.6 28.6	28.3	5.0	23.3	2158	1989
5	R		27.6 26.3	27.2	4.9	22.3	2040	1871
6	Y		28.6 27.3	26.8		21.9	1947	1778
7	B+W	7:02	28.0 26.5	25.9		21.0	1859	1690
8	R		26.2 24.8	25.0		20.1	1710	1541
9	Y		26.1 25.0	25.3		~~21.4~~ 20.4	1633	1464
10	B+W	7:05	25.9 25.1	24.6		19.7	1565	1396
11	R		25.1 23.9	23.8	4.9	18.9	1477	1308
12	Y		25.0 23.6	23.7	4.8	18.9	1390	1221
13	B+W	7:07	24.0 22.7	23.1		18.3	1320	1151
14	R		24.0 22.8	21.9		17.1	1241	1072
15	Y		22.5 20.1	20.9		16.1	1184	1015
16	B+W	7:09	21.5 18.7	19.6		14.8	1139	970
17	R		21.0 18.0	19.0		14.2	1100	931
18	Y		21.0 17.0	18.3		13.5	1046	877
19	B+W	7:11	19.0 16.7	17.5		12.7	1005	836
20	R		18.3 15.0	16.1	4.8	11.3	969	800

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
X-Sect Notes Chkd. CEM Checked Surveyed by BLANCHARD Notes
No. Date 1/27/54 Date Map No. Indexed J. Johnson Date Date
F. B. 1506 Pg. 13

76L298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Bo+		50+00 S	
#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	S.M. Base	Remarks	L.A. Base
21	Y		[illegible]	14.4	4 8	9.6	920	751
22	B&W	7:14	[illegible]	11.3		6.5	885	716
23	Y		[illegible]	10.5		5.7	882	713
24	Y		[illegible]	8.3	4 8	3.5	839	670
25	B&W							
26	[illegible]							
27	Y							
28	B&W							
29	R							
30	Y							
31	B&W							
32	R							
33	Y							
34	B&W							
35	R							
36	Y							
37	B&W							
38	R							
39	Y							
40	B&W							

F. B. 1506 Pg. 14 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by [illegible] Notes Robb 11/16/53 Notes Chkd. CEM Checked No.
Indexed E. C. Johnson Date Date 1/27/54 Date

6L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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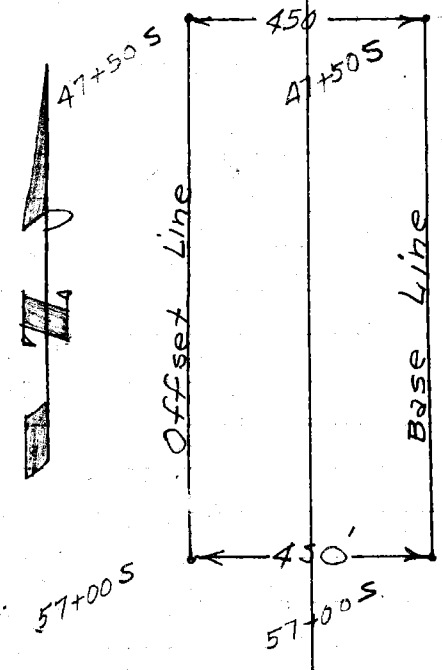
Range - 47+50 S

STATION		S. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
47+50 S 450' Offset	57+50 S 450 Offset	1	B & W	7:30	90° 00	
		2	R		"	
		3	Y		"	
		4	B & W	7:33	"	
		5	R		"	
		6	Y		"	
		7	B & W	7:35	"	
		8	R		"	
		9	Y		90° 08'	
		10	B & W	7:38	90° 00'	
		11	R		"	
		12	Y		"	
		13	B & W	7:41	"	
		14	R		"	
		15	Y		"	
		16	B & W	7:43	"	
		17	R		"	
		18	Y		"	
		19	B & W	7:45	"	
		20	R		"	



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 1506 Pg. 15
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD CE S Date 11-16-53
No. ____ Date ____ Date ____ Map No. ____ Made by Johnson Date ____

F. B. 1506 Pg. 16 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Roads Erosion Studies | Date | No. | X-Sec.
Survey by F. H. BLANCHARD Notes Shoemaker | Date | Notes Chkd. | Checked | No.
Indexed E. C. Johnson Date | Date | Date

76L198 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	Range 47+50 S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		20°00'	
	22	B & W	7:48	"	
	23	R		"	
47+50 S 450' Off					
57+50 S - 450' Off					

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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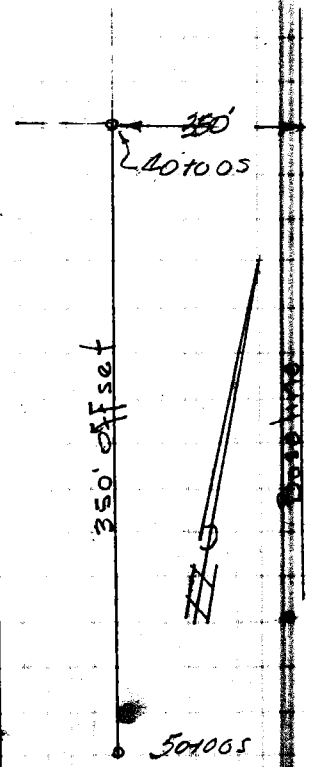
STATION	B. S.	H. I.	F. S.	ELEV.	Cut In 47+50 S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
40+00 S 350' W offset	1	B&W	7:30	71°00	
	2	R		69 29	
	3	Y		68 14	
	4	B&W	7:33	66 56	
	5	R		65°42	
	6	Y		63°30	
	7	B&W	7:35	61 46	
	8	R		59°37	
	9	Y		57°54	
50+00 S 350' W offset	10	B&W	7:37	55°38	
	11	R		52 27	
	12	Y		49°41	
	13	B&W	7:39	46°58	
	14	R		44°16	
	15	Y		42°49	
	16	B&W	7 41	40 58	
	17	R		38°40	
	18	Y		36°35'	
	19	B&W	7 43	34 52	
	20	R		[illegible]50	



Profile Notes Red. ____ Plotted ____ Job No. 84/12 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD Date 11-16-53
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

F. B. 1506 Pg. 17

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	CUT IN	47+50 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		34° 10		
		22	B&W	7 46	34° 08		
		23	R		33 05		
		24	Y				
40+00 S	350' W offset						
50+00 S	350' W offset						

F. B. 1506 Pg. 18 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH GROSSING STUDIES Date Date No.
Survey by F. H. BLANCHARD Notes Blanchard Notes Chkd. Checked X-Sec.
Indexed L. C. Johnson Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

356+27.41 N

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		47+50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	S/M Remarks	L.A.
1	B-W	7:30	[illegible]	30.6	45	26.1	2530	2387
2	R		[illegible]	29.1		24.6	2354	2211
3			[illegible]	28.4		23.9	2230	2087
4	B-W	7:33	[illegible]	27.8	45	23.3	2111	1968
5	R		[illegible]	26.6	44	22.2	2011	1868
6			[illegible]	25.8		21.4	1853	1710
7	B-W	7:35	26.6 / 24.9	25.5		21.1	1747	1604
8	R		25.0 / 24.9	24.3		19.9	1630	1487
9	Y		25.1 / 24.9	24.5		20.1	1547	1404
10	B-W	7:37	25.0 / 22.5	23.3		18.9	1449	1306
11	R		23.6 / 22.1	22.6		18.2	1326	1183
12	Y		23.8 / 21.1	22.0		17.6	1235	1092
13	B-W	7:39	22.2 / 20.5	21.1	44	16.7	1152	1009
14	R		20.4 / 18.0	18.8	43	14.5	1081	938
15	Y		21.0 / 18.0	19.0		14.7	1045	902
16	B-W	7:42	19.0 / 17.6	18.1		13.8	1000	857
17	R		16.9 / 15.3	15.8		11.5	950	807
18	Y		15.5 / 14.5	14.8		10.5	906	763
19	B-W	7:44	14.6 / 12.8	13.4		9.1	873	730
20	R		13.0 / 12.0	12.3	43	8.0	873	730

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 19
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. CEM Checked ____ Survey by H. BLANCHARD Notes E.R. Date 11/16/53
No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	S.M.	Remarks L.A
21	V		10.5 10.0	10.3	4 3 ✓	6.0 ✓	859	716
22	[illegible]	7:46	12.5 10.0	10.8	4 2	6.6	859	716
23	[illegible]		10.9 8.1	9.0	4 2 ✓	4.8 ✓	839	696
24								
25	[illegible]							
26	[illegible]							
27	[illegible]							
28	[illegible]							
29	[illegible]							
30								
31	[illegible]							
32	[illegible]							
33								
34	[illegible]							
35	[illegible]							
36	[illegible]							
37	[illegible]							
38	[illegible]							
39								
40	[illegible]							

F. B. 1506 Pg. 20 Job No. 8412 Division No. Notes Red. Plotted No.
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by F. H. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked No.
Indexed E. C. Johnson Date Date 1/27/54 Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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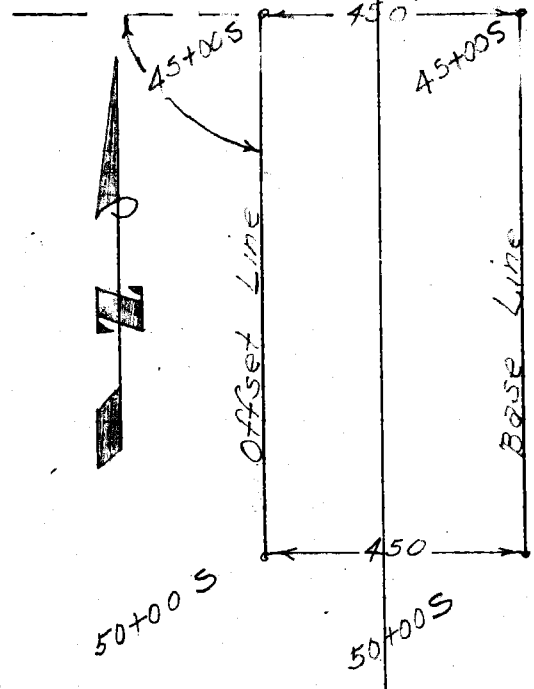
Do not extend notes this side of this line.

Range 45+00 S

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
45+00 S 450 Off	50+00 S 450 Off	1	B & W	8:00	90°00'	
		2	R		90° 09'	
		3	Y		90° 00	
		4	B & W	8:03	"	
		5	R		"	
		6	Y		"	
		7	B & W	8:05	"	
		8	R		"	
		9	Y		"	
		10	B & W	8:08	"	
		11	R		"	
		12	Y		"	
		13	B & W	8:10	"	
		14	R		"	
		15	Y		"	
		16	B & W	8:12	"	
		17	R		"	
		18	Y		"	
		19	B & W	8:14	"	
		20	R		"	



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Research Division Studies
X-Sec. Notes Chkd. Checked Survey by E. H. BLANCHARD, CES Date 11-16-53
No. Date Date Map No. Mapped C. Johnson Date

F. B. 1505 Pg. 21

F. B. 1506 Pg. 22 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. BLANCHARD Notes Shoemaker | Notes Chkd. | Checked | X-Sec.

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

76L898 307 4-50

PLEASE RETURN TO

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
45+00 S 450 Off.	21	Y	8:17	90 00	
50+00 S 450 Off.	22	B & W			
	23	R			
					Range
					45+00 S

76L298 307 10-51

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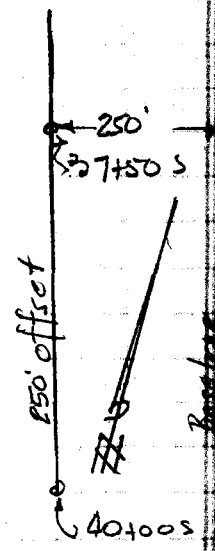
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT IN 45+00 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
37+50 S 250' W offset	40+00 S 250' W offset	1	B&W	8:00	70°12	
		2	R		69°08	
		3	Y		67°51	
		4	B&W	8:02	66°57	
		5	R		65°57	
		6	Y		64°26	
		7	B&W	8:05	62°59	
		8	R		61°30	
		9	Y		59°55	
		10	B&W	8:07	58°38	
		11	R		56°26	
		12	Y		54°14	
		13	B&W	8:09	52°40	
		14	R		50°39	
		15	Y		48°04	
		16	B&W	8:12	47°19	
		17	R		46°32	
		18	Y		45°41	
		19	B&W	8:13	44°09	
		20	R		41°55	



Profile No. ____ Notes Red ____ Plotted ____ Job No. 84/12 Division No. ____ F.B. 1506 Pg. 23

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD FHB Date 11-16-53

Date ____ Date ____ Map No. ____ Inspected C. Johnson

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. 1506 Pg 24 | Job No. 8212 Division No. Notes Red. Plotted
Survey of Legacy Estates Studies Date Date
Survey by Blanchard Notes Blanchard Notes Chkd. Checked
Indexed L. C. Johnson Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN 4570 US
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		40° 33	
	22	B&W	8:15	38° 23	
	23	R		36° 47	
	24	Y			
	25	B&W			
37+50 toos 258' W offset					
40+00 S 250' W offset					

76L298 307 8-53

-116

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

Do not extend notes this side of this line. 358 + 78.81 N

45+00 -C

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	SM Remarks	LA
1	[illegible]	7:59	29.5 / 29.8	29.8	41	257	2332	2216
2	R		27.3	28.3	41	242	2220	2104
3			[illegible]	28.8	40	248	2092	1976
4	[illegible]	8:02	29.7 / 26.0	27.2		232	2012	1896
5	R		28.1 / 26.9	26.9		229	1930	1814
6			27.8 / 25.9	26.5		225	1819	1703
7	[illegible]	8:04	27.6 / 24.8	25.8		218	1720	1604
8	R		26.0 / 25.0	25.3		213	1631	1515
9			25.1 / 24.0	24.4		204	1545	1429
10	[illegible]	8:06	24.7 / 23.1	23.7		197	1482	1366
11	R		25.1 / 23.1	23.8	40	198	1381	1265
12			23.5 / 22.5	22.8	39	189	1292	1176
13	[illegible]	8:09	23.5 / 21.0	21.8		179	1240	1124
14	R		22.1 / 21.0	21.4		175	1165	1049
15			21.7 / 19.4	20.2		163	1085	969
16	[illegible]	8:11	20.9 / 19.9	20.2		163	1063	947
17	R		20.7 / 18.1	19.0		151	1042	926
18			19.7 / 18.0	18.6		147	1019	903
19	[illegible]	8:13	19.1 / 16.9	17.6	39	137	978	862
20	R		17.1 / 15.9	16.3	38	~~115~~ 12.5	924	808

Profile Notes Red. ____ Plotted ____ Job No. 2412 Division No. ____ F. B. 1506 Pg. 25
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. CEM Checked ____ Survey F. H. BLANCHARD Notes ER Date 11/16/53
No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks	
21	[illegible]		[illegible]	16.0	38	122	891	775
22	[illegible]	6.16	[illegible]	13.1	38	93	845	729
23	R		[illegible]	10.0	38	62	810	694
24	[illegible]							
25	[illegible]							
26	R							
27	[illegible]							
28	[illegible]							
29	R							
30	Y							
31	[illegible]							
32	R							
33	Y							
34	[illegible]							
35	R							
36	Y							
37	[illegible]							
38	R							
39	Y							
40								

F. B. 1506 Pg. 26 Job No. [illegible] Division No. [illegible] Notes Red. Plotted Profile
Survey of [illegible] Date Date No.
Survey by F. H. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked X-Sec.
Indexed [illegible] Johnson Date Date 1/27/54 Date No.

76L298 307 4-50

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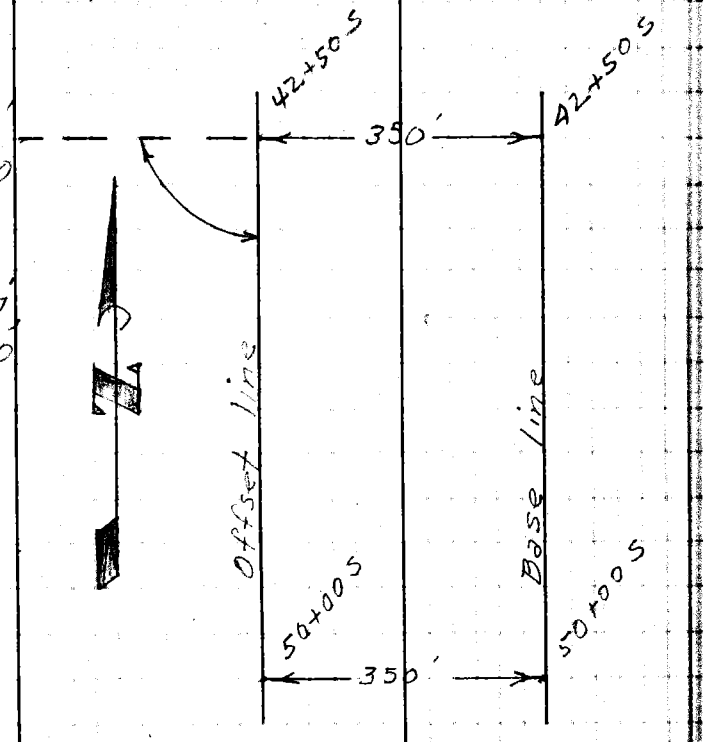
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

42+50 S

STATION Inst. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
42+50 S 350' Offset W	50+00 S 350' Offset W	1	B & W	8:31	90°00
		2	R		"
		3	Y		"
		4	B & W	8:34	90°13'
		5	R		90°00
		6	Y		"
		7	B & W	8:36	"
		8	R		90°07'
		9	Y		90°00
		10	B & W	8:39	"
		11	R		"
		12	Y		"
		13	B & W	8:41	"
		14	R		"
		15	Y		"
		16	B & W	8:43	"
		17	R		"
		18	Y		"
		19	B & W	8:45	"
		20	R		89°03

Remarks



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey E. H. BLANCHARD CES Date 11-16-53
No. Date Date Map No. Issued C. Johnson Date

F. B. 1506 Pg. 27

F. B. 1506 Pg. 28 | Job No. 842 Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. BLANCHARD | Notes Shoemaker | Notes Chkd. | Checked | X-Sec.

Indexed L. C. Johnson | Date | Date | Date | No.

42+50 S 350' W

50+00 S 350' W

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

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76L298 307 4-50

76L298 307 10-51

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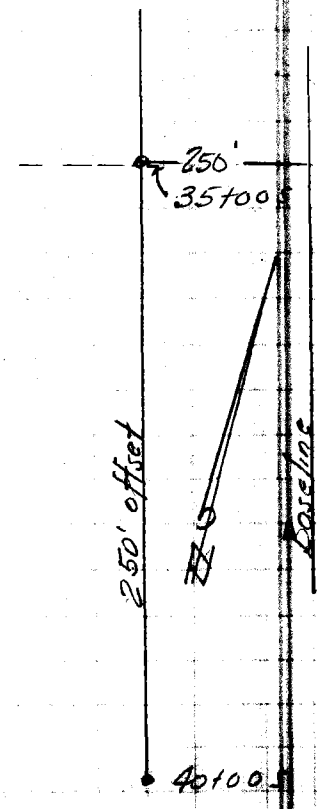
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN 32+50 S
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
35+00 S 250' W offset. / 40+00 S 250' W offset	1	B&W	8:32	70°43	
	2	R		69°16	
	3	Y		67°45	
	4	B&W	8:35	66°27	
	5	R		64°47	
	6	Y		63°17	
	7	B&W	8:37	61°43	
	8	R		59°51	
	9	Y		58°08	
	10	B&W	8:39	56°09	
	11	R		54°10	
	12	Y		52 42	
	13	B&W	8:41	50°14	
	14	R		48°00	
	15	Y		45°19	
	16	B&W	8:43	43°39	
	17	R		41°31	
	18	Y		39°42'	
	19	B&W		38°05	
	20	R		35°14	



Profile Notes Red. ____ Plotted ____ Job No. 94/12 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD Notes F.H.B. Date 11-16-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F.B. 1506 Pg. 29

76L298 307 10-51

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F.B. 1506 Pg. 30

Survey of BEACH EROSION STUDIES Job No. 8412 Division No. Notes Red. Plotted

Survey by F. H. BLANCHARD Notes Date Date No. Profile

Notes C. Johnson Notes Chkd. Checked No. X-Sec.

Indexed Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Cur In	427505
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		33° 19		
	22	B&W				
	23	R				
	24					
	25					

76L298 307 8-53

-90

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Do not extend notes this side of this line. 361+30.21 N

Profile Notes Red. Plotted Job No. 54/2 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. GEM Checked Survey by H. BLANCHARD Date 1/27/54
No. Date Date Map No. Index C. Johnson

F. B. 1506 Pg. 31

STATION	B. S.	H. I.	F. S.	ELEV.	Bust	42+34 S	
# Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	SM Remarks	L.A.	
1			30.0	36	264	2393	2303
2			29.1	35	256	2230	2140
3			27.6		241	2082	1992
4		8.34	27.2		237	1970	1880
5			25.5		220	1841	1751
6			26.0		~~220~~ 22.5	1739	1649
7		8.36	25.8		223	1643	1553
8			24.3		208	1541	1451
9			23.8	35	203	1455	1365
10		8.39	23.0	34	196	1367	1277
11			23.0		196	1288	1198
12			21.8		184	1235	1145
13		8.41	21.6		182	1151	1061
14			21.2		178	1083	993
15			19.6		16.2	1008	918
16		8.43	18.3		149	966	876
17			16.2		128	915	825
18			15.1	34	117	873	783
19		8.45	13.5	33	102	839	749
20			9.6	33	63	780	690

F. B. 1506 Pg. 32 Job No. 2412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDY Date _____ Date _____ No. _____

Survey by F. H. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date 1/27/54 Date _____ No. _____

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21			8.5 6.8	6.8		3.5	493 653

76L298 307 4-50

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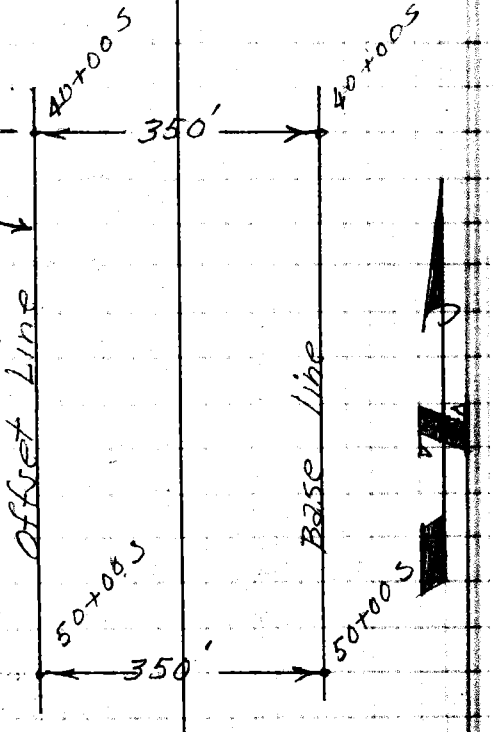
Profile Notes Red____ Plotted____ Job No. 8412 Division No.____
No.____ Date____ Date____ Survey of Beach Erosion Studies
X Sec. Notes Chkd.____ Checked____ Survey by L. H. BLANCHARD C.E. Date 11-16-53
No.____ Date____ Date____ Map No.____ Indexed G. Johnson

F. B. 1506 Pg. 33

STATION	B. S.	H. I.	F. S.	ELEV.	Range 40+00 S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1	B & W	8:58	90° 00	
	2	R		"	
	3	Y		"	
40+00 S. 350' Offset W	4	B & W	9:00	"	
	5	R		90° 07	
	6	Y		90° 00	
	7	B & W	9:02	"	
	8	R		"	
	9	Y		89° 57	
50+00 S. 350' Offset W	10	B & W	9:04	90° 00'	
	11	R		"	
	12	Y		"	
	13	B & W	9:06	89° 54'	
	14	R		90° 00	
	15	Y		"	
	16	B & W	9:09	"	
	17	R		"	
	18	Y		89° 45'	
	19	B & W	9:11	90° 00	
	20	R		"	



F. B. 1505 Pg. 34 | Job No. 8412 Division No. 1 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by F.H. BLANCHARD Notes Shoemaker Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 40+005
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
40+00 S 350' Offset W	21	Y		90° 00'	
50+00 S 350' Offset W					

76L298 307 8-53

-63

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Do not extend notes this side of this line.

363+81.61 N

BOAT 40+00 S

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	S.M. Remarks	L.A.
1	B&W	8:50	29.1 27.9	28.3	3.1 ~~3.3~~	25.2 ~~25.0~~	2203	2140
2	R		27.0 26.7	27.6	3.1 ~~3.2~~	24.5 ~~24.4~~	2081	2018
3	Y		26.6 25.8	26.7	3.1	236	1984	1921
4	B&W	9:00	27.6 25.8	26.4		233	1870	1807
5	R		27.0 25.0	25.7		226	1790	1727
6			25.0 24.0	24.3	3.1	212	1674	1611
7	B&W	9:02	26.0 24.2	24.8	3.0	218	1592	1529
8	R		25.2 23.5	24.1		211	1470	1407
9	Y		24.0 22.2	22.8		198	1350	1287
10	B&W	9:04	23.4 22.5	22.8		198	1281	1218
11	R		23.0 21.6	22.1		191	1186	1123
12	Y		23.0 20.0	21.0		180	1110	1047
13	B&W	9:07	21.6 19.0	19.9		169	1042	979
14	R		21.0 17.8	18.9		159	988	925
15	Y		18.3 16.1	16.8	3.0	138	933	870
16	B&W	9:09	17.3 15.1	15.8	2.9	129	890	827
17	R		16.0 13.5	14.3		114	855	792
18	Y		14.6 12.5	13.2		103	816	753
19	B&W	9:11	13.0 10.0	11.0		81	785	722
20	R		12.2 10.8	11.3	2.9	84	770	707

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1506 Pg. 35
No. Date Date Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. CEM Checked Survey F. H. BLANCHARD Notes ER Date 11/16/53
No. Date 1/27/54 Date Map No. Indexed C. Johnson Date

F. B. 1506 Pg. 36 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDY Date _____ Date _____ No. _____

Survey by E. H. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked _____ X-Sec.

Indexed R. C. Johnson Date _____ Date 1/27/54 Date _____ No. _____

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Bott	[illegible]	[illegible]
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21			59	7.7		48	739
							676

76L298 307 4-50

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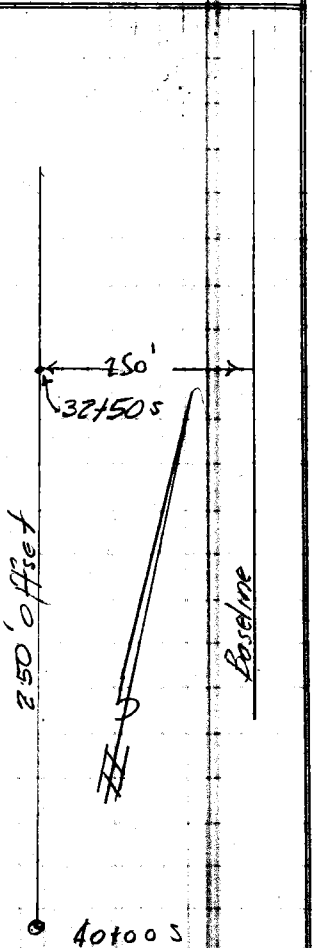
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 847 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD Note. THIS Date 11-16-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1508 Pg. 37

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN	40+00 S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	1	B&W	8:58	69 01		
	2	R		67°45		
	3	Y		66°37		
	4	B&W	9 00	65°10		
	5	R		64°02		
	6	Y		62 14		
	7	B&W	9:02	60°52		
	8	R		58°25		
	9	Y		55°44		
	10	B&W	9:05	54°00		
	11	R		51°21		
	12	Y		48°57		
	13	B&W	9:07	46 35		
	14	R		44°33		
	15	Y		42 20		
	16	B&W	9:09	40 27		
	17	R		38°53		
	18	Y		37°02		
	19	B&W	9:11	35°30		
	20	R		34 47		



32+50 S 250' W offset
40+00 S 250' W offset

F. B. 1506 Pg. 28 | Job No. 847 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by E. H. BLANCHARD Notes FHB Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN 40100 S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		33°03	
	22	B&W			
	23	R			
	24	Y			
32750 S 250'W offset					
40100 S 250'W offset					

76L298 307 10-51

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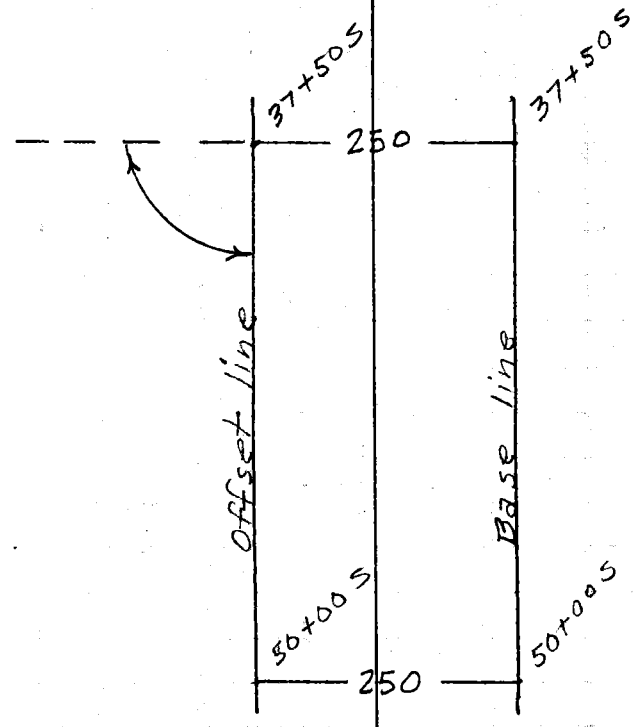
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
37+50 S 250' Offset W	50+00 S 250' Offset W	1	B & W	9:54	90° 00
		2	R		"
		3	Y		"
		4	B & W	9:56	"
		5	R		"
		6	Y		"
		7	B & W	9:59	"
		8	R		"
		9	Y		"
		10	B & W	10:02	"
		11	R		"
		12	Y		"
		13	B & W	10:04	"
		14	R		"
		15	Y		"
		16	B & W	10:06	"
		17	R		"
		18	Y		"
		19	B & W	10:09	"
		20	R		"

37+50 S

Remarks



Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 39

X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies

Survey by E. H. BLANCHARD CES Date 11-16-53

Map No. ____ Indexed C. Johnson Date ____

F.B. 1505 Pg. 40 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. BLANCHARD | Notes Shoemaker | Notes Chkd. | Checked | X-Sec.

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

76L298 307 10-51

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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.

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight On	#	Color	Time			Range
At	21	Y				
	22	B & W	10:11			
	23	R				
37+50 S						37+50 S
250' Off.						
50+00 S						
250' Off.						

76L298 307 4-50

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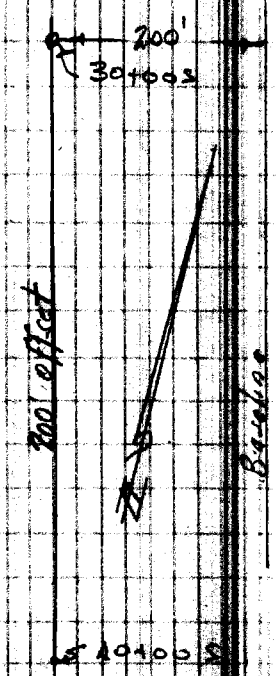
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
30+00S 200 Off	40+00S 200 Off	1	B+W	9:55	68°58
		2	R		68°01
		3	Y		66°22
		4	B+W	9:57	64°48
		5	R		63°51
		6	Y		62°33
		7	B+W	10 00	60°32
		8	R		58°51
		9	Y		57°20
		10	B+W	10 02	55°59
		11	R		54°36
		12	Y		52°38
		13	B+W	10:05	50°58
		14	R		49°49
		15	Y		48°09
		16	B+W	10 07	46°31
		17	R		44°36
		18	Y		42°04
		19	B+W	10 09	40 43
		20	R		39 [illegible]

CUT-IN 37+50S

Remarks



Profile Notes Red. ____ Plotted ____ Job No. 84N Division No. ____ F.S. 1508 Pg. 4

No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

No. ____ Date ____ Date ____ Survey of [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 1506 Pg. 42

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

Survey by F. H. BLANCHARD Notes F1-8 Notes Chkd. _____ Checked _____ X-Sec.

Indexed O. Johnson Date _____ Date _____ Date _____ No. _____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y		38° 15	
	22	B&W	10 11	37 45	
	23	R		35 47	
	24	Y			
30+00 S 200'W offset					
40+00 S 200'W offset					
					CUT IN - 37+50 S

76L298 307 10-51

-37

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Do not extend notes this side of this line. 366+33.01 N

STATION	B. S.	H. I.	F. S.	ELEV.	- BOAT -		37+50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B+W	9:54	29.0 26.9	27.6	22	254	2150	2113
2	R		29.1 26.5	27.4		252	2059	2022
3	Y		27.7 26.0	26.6		244	1912	1878
4	B+W	9:56	27.5 23.9	25.1	22	229	1792	1755
5	R		26.1 24.1	24.8	21	227	1729	1692
6	Y		25.0 23.7	24.1		220	1643	1606
7	B+W	9:59	24.6 22.9	23.5		214	1528	1491
8	R		24.0 22.1	22.7		206	1441	1404
9	Y		23.7 21.5	22.2		201	1369	1332
10	B+W	10:02	23.8 20.9	21.9		198	1311	1274
11	R		22.0 21.0	21.3		192	1255	1218
12	Y		21.7 19.9	20.5		184	1183	1146
13	B+W	10:05	21.8 19.0	19.9		178	1125	1088
14	R		22.2 21.0	21.4	20	194	1090	1053
15	Y		20.9 20.0	20.3		183	1036	999
16	B+W	10:07	20.1 18.5	19.0		170	990	953
17	R		19.1 17.2	17.8		158	940	903
18	Y		18.1 15.1	16.1		141	877	840
19	B+W	10:09	16.1 14.1	14.8		128	845	808
20	R		14.2 13.1	13.5	20	115	823	786

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 43

No. ____ Date ____ Date ____ Survey of BEACH [illegible]

X-Sec. Notes Chkd. CEM Checked ____ Survey by E. H. BLANCHARD Notes ER Date [illegible]

No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		37+50 -S-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		13.8 11.1	12.0	2.0 ✓	10.0 ✓	791	754
22	B+W	10.11	12.0 10.2	10.8		8.8 ✓	780	743
23	R		10.1 7.3	8.2	2.0 ✓	6.2 ✓	740	703
24	Y							
25	B+W							
26	R							
27	Y							
28	B+W							
29	R							
30	Y							

F.B. 1516 Pg. A4 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No. X-Sec.
Survey by F. B. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked
Indexed K. C. Johnson Date Date 1/27/54 Date No.

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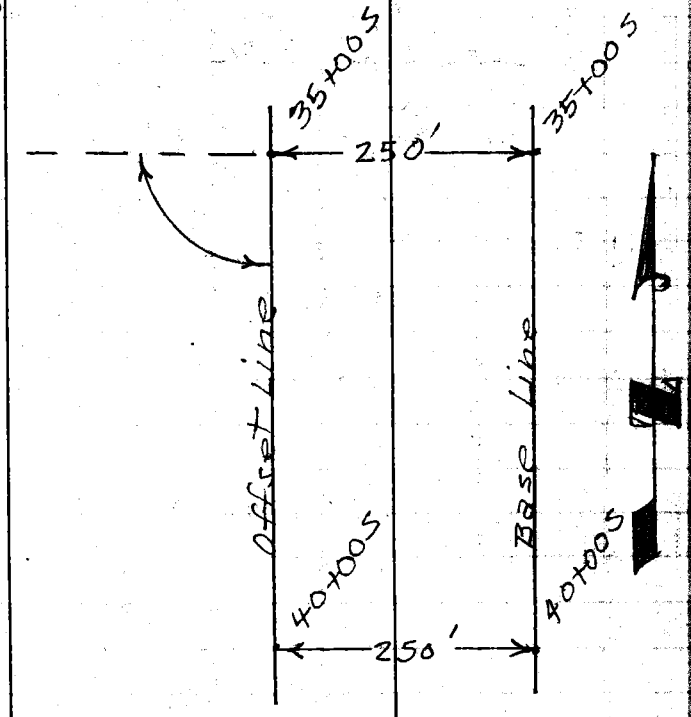
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range 35+00 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
35+00 S 250' Offset W	40+00 S 250' Offset W	1	B & W	10:24	90°00	
		2	R		"	
		3	Y		"	
		4	B & W	10:27	"	
		5	R		"	
		6	Y		"	
		7	B & W	10:30	"	
		8	R		"	
		9	Y		"	
		10	B & W	10:32	"	
		11	R		"	
		12	Y		"	
		13	B & W	10:34	"	
		14	R		"	
		15	Y		"	
		16	B & W	10:36	"	
		17	R		"	
		18	Y		"	
		19	B & W	10:39	"	
		20	R		"	



Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 45
X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies
Survey of E. H. BLANCHARD CES Date 11-16-58
Map No. ____ Indexed ____ Date ____

F.B. 1506 PG. 46 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by E. H. BLANCHARD Notes Shoemaker Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

76L288 307 10-51

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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.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. At OR	#	Color	Time	Hor. Ang.	Range	Remarks
						21	Y				
						22	R $ W	10,47			
						23	R				
						24	Y		90°00		
									89°9'		
35+00 S 250' Off											35+00 S
40+00 S 250 Off											

76L298 307 4-50

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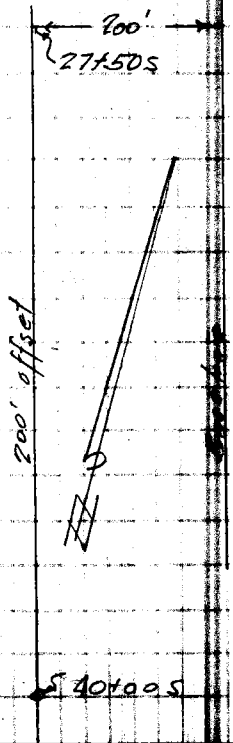
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut in 35+00 S	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
27+50 S 200' W offset	40+00 S 200' W offset	1	B&W	10 24	68° 43		
		2	R		67° 41		
		3	Y		67° 03		
		4	B&W	10 27	65° 49		
		5	R		64° 54		
		6	Y		64° 07		
		7	B&W	10 30	63° 05		
		8	R		62° 04		
		9	Y		60° 47		
		10	B&W	10 32	58° 54		
		11	R		57° 18		
		12	Y		55° 22		
		13	B&W	10 34	52° 29		
		14	R		48° 50		
		15	Y		46° 23		
		16	B&W	10 37	44° 26		
		17	R		41° 38		
		18	Y		40° 14		
		19	B&W	10 39	38° 38		
		20	R		38 04		



Profile Notes Red. ____ Plotted ____ Job No. 8410 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD FHB Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible]

F. B. 1506 Pg. 47

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	35+00 S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		36 54		
	22	B&W	10 42	35 40		
	23	R		35 02		
	24	Y		32 29		
27+50 S 200' W offset						
40+00 S 200' W offset						

F. B. 1506 Pg. 48 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by F. H. BLANCHARD Notes Blanchard Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 10-51

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- 15

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Do not extend notes this side of this line. 368+83.98 N

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		35+00 -S-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B+W	10:24	29.7	27.2	19	253	2125	2110
2	R		28.0 25.2	26.1	19	242	2028	2013
3	Y		26.8 25.7	26.1	18	243	1971	1956
4	B+W	10:27	26.5 25.1	25.6	1.8	238	1870	1855
5	R		25.1 24.2	24.5	1.8	227	1801	1786
6	Y		25.5 23.9	24.4	1.8	226	1746	1731
7	B+W	10:30	25.1 23.9	24.3	1.8	225	1678	1663
8	R		25.4 23.0	23.8	1.8	220	1612	1597
9	Y		24.1 22.5	23.0	1.8	212	1540	1525
10	B+W	10:32	24.0 22.1	22.7	1.8	209	1442	1427
11	R		22.6 21.0	21.5	1.8	197	1369	1354
12	Y		22.0 21.1	21.4	1.8	196	1286	1271
13	B+W	10:34	22.5 20.1	20.9	1.8	191	1177	1162
14	R		21.8 19.2	20.1	1.8	183	1059	1044
15	Y		20.2 18.9	19.3	1.8	175	987	972
16	B+W	10:37	19.0 17.9	18.3	1.8	165	936	921
17	R		17.2 16.0	16.4	1.8	146	868	853
18	Y		16.4 14.5	15.1	18	133	835	820
19	B+W	10:39	16.1 13.1	14.1	17	124	800	785
20	R		15.0 13.0	13.7	17	120	788	773

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 49

No. ____ Date ____ Date ____ Survey of BSHCK ENGINEERING

X-Sec. Notes Chkd. CEM Checked ____ Survey by H. BLANCHARD Notes ER Date 11/14/53

No. ____ Date 1/27/54 Date ____ Map No. ____ Inspected C. Johnson Date ____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
							35+00 - S
#	Color Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks SM	LA
21	Y	3.2	12.5	7	108 ✓	764	749
22	B+W	12.4 / 12.6 / 9.5	10.5		88 ✓	741	726
23	R	10.7 / 8.0	8.9		~~71~~ 7.2	726	711
24	Y	6.7 / 3.0	5.6	17	39 ✓	678	663
25	B+W						

F.B. 2506 Pg. 50
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by F. H. BLANCHARD Notes Robbins 11/16/53 Notes Chkd. CEM Checked
Indexed E. C. Johnson Date Date 1/27/54 Date No.

761.298 307 4-50

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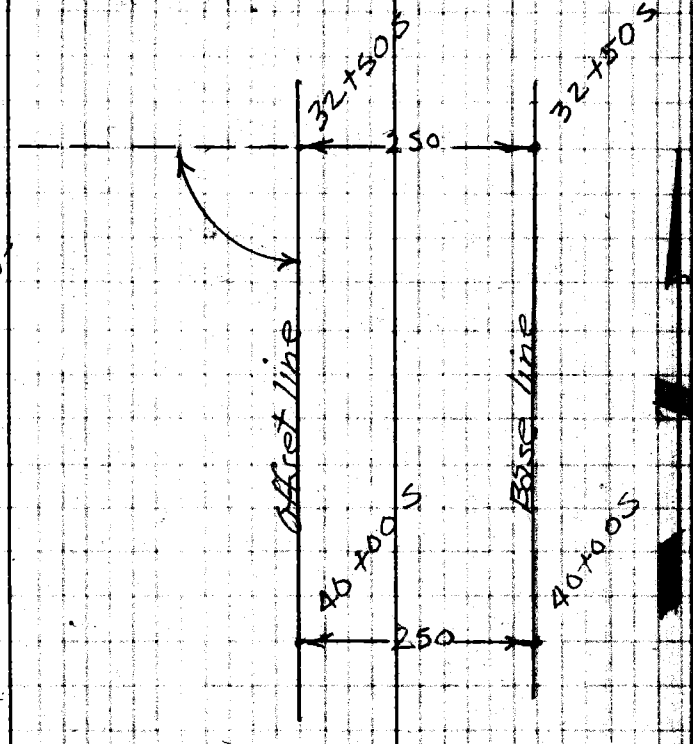
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
32+50 S	250' Offset W	1	B & W	10:58	90° 00
		2	R		"
		3	Y		"
		4	B & W	11:02	"
		5	R		"
		6	Y		90° 16
		7	B & W	11:05	90° 00
		8	R		"
		9	Y		"
		10	B & W	11:07	"
		11	R		"
		12	Y		"
		13	B & W	11:10	"
		14	R		"
		15	Y		"
		16	B & W	11:13	"
		17	R		"
40+00 S	250' Offset W				

Range 32+50 S

Remarks



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ Beach Erosion Studies
No. ____ Date ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L298 307 4-50

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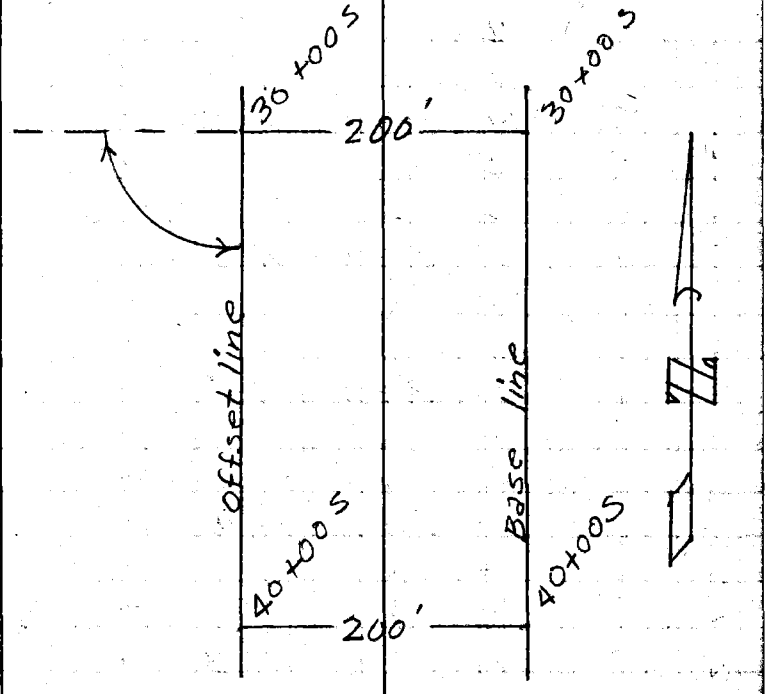
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range	30+00 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
30+00 S 200' offset W	40+00 S 200 offset W	1	B & W	11:29	90° 00		
		2	R		"		
		3	Y		"		
		4	B & W	11:32	89° 51'		
		5	R		90° 00		
		6	Y		"		
		7	B & W	11:36	"		
		8	R		"		
		9	Y		"		
		10	B & W	11:38	"		
		11	R		"		
		12	Y		"		
		13	B & W	11:41	"		
		14	R		"		
		15	Y		"		
		16	B & W	11:43	"		



Profile
Plotted
Date
Checked
Date
Notes Red
Date
Notes Chkd
Date
Job No. 8412 Division No.
Survey of Beach Erosion Studies
Survey by E. H. BLANCHARD Notes Shoemaker
Indexed Johnson Date
T.B. 1506 Pg.
X-Sec.
No.
No.

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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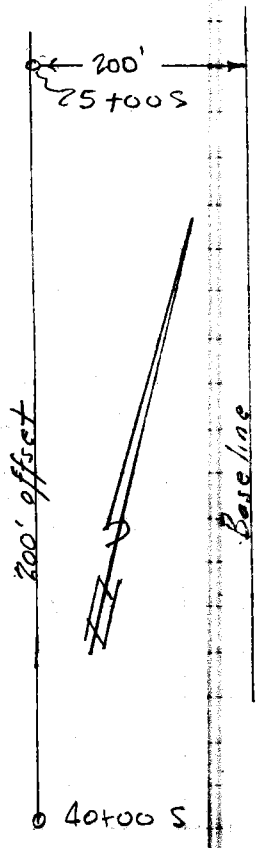
Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 4417 Division No.____
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd.____ Checked____ Survey by E. H. BLANCHARD Fld. Date 11-16-53
No.____ Date____ Date____ Map No.____ Indexed C. J. Johnson Date____

F. B. 1505 Pg. 52

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN 32+50 S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	10 57	66° 30	
	2	R		64° 37	
	3	Y		63° 29	
200' W offset	4	B&W	11:00	61° 58	
	5	R		60° 13	
	6	Y		58° 18	
200' W offset.	7	B&W	1103	55° 46	
	8	R		53° 46	
	9	Y		51° 28	
25+00 S. 10+00 S	10	B&W	11 05	49° 18	
	11	R		46° 44	
	12	Y		43° 02	
	13	B&W	11 08	40° 09	
	14	R		37° 38	
	15	Y		35° 59	
	16	B&W	11 13	33° 47	
	17	R		33 05	
	18	Y			
	19	B&W			
	20	R			



F.B. 1506 Pg. 54 | Job No. 4412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by H. H. BLANCHARD Notes Blanchard | Notes Chkd. | Checked | X-Sec.
Indexed C. Johnson Date | Date | Date | No.

76L298 307 4-50

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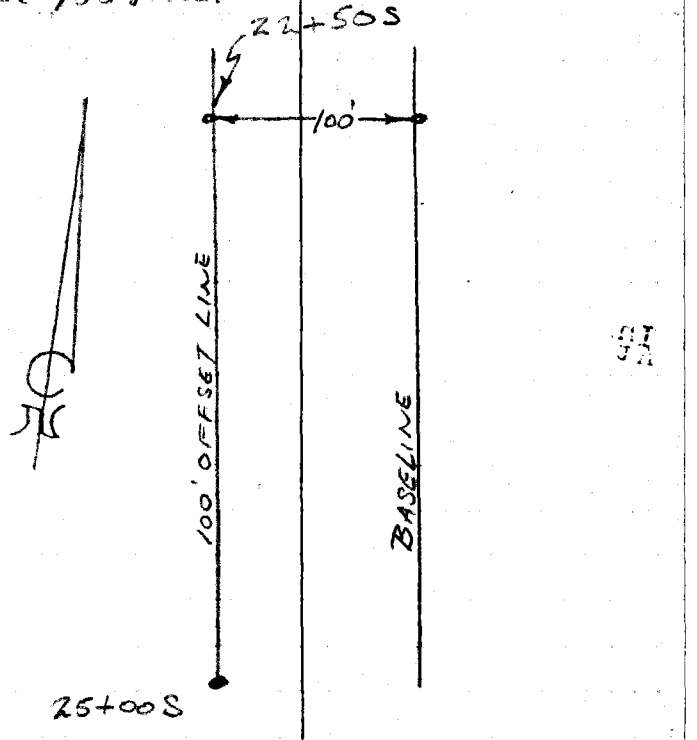
STATION	B. S.	H. I.	F. S.	ELEV.	Cut In 30+00S
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks
		1 B&W	11 30	Gr 56	use 100' offset
		2 R		67 31	
		3 Y		65 58	
22+50S	200' W offset	4 B&W	11 33	63 25	
		5 R		61 26	
		6 Y		58 42	
		7 B&W	11 36	56 26	
		8 R		53 32	
		9 Y		51 41	
25+00S	200' W offset	10 B&W	11 39	48 35	
		11 R		45 34	
		12 Y		42 41	
		13 B&W	11 41	41 23	
		14 R		37 53	
		15 Y		34 08	
		16 B&W	11 44	31 20	



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+6

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Do not extend notes this side of this line. 371 + 34.85 N

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		32 + 50 - S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B+W	10:58	26.5 25.0	25.5	16	239	1926	1932
2	R		25.7 23.9	24.6	1.6	230	1780	1786
3	Y		24.6 23.3	23.7	1.6	221	1701	1707
4	B+W	11:00	24.0 22.9	23.3	1.6	217	1609	1615
5	R		24.2 22.0	22.7	1.6	211	1510	1516
6	Y		23.1 22.0	22.4	1.6	208	1413	1419
7	B+W	11:02	22.8 20.9	21.5	1.6	199	1301	1307
8	R		22.0 20.6	21.1	1.6	195	1222	1228
9	Y		22.5 19.8	21.0	1.6	194	1141	1147
10	B+W	11:05	[illegible] 20.0	20.4	1.6	188	1071	1077
11	R		20.0 19.0	19.3	1.6	177	995	1001
12	Y		19.0 17.2	17.8	1.6	162	900	906
13	B+W	11:08	18.9 16.0	17.0	1.6	154	832	838
14	R		15.8 14.0	14.6	1.6	130	779	785
15	Y		13.4 12.0	12.5	1.6	109	745	751
16	B+W	11:11	10.0 8.9	9.3	1.6	77	702	708
17	R		9.7 7.0	7.9	16	63	689	695
18	Y							
19	B+W	11:13						
20	R							

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 55

No. ____ Date ____ Date ____ Survey of [illegible]

X-Sec. Notes Chkd CEM Checked ____ Survey By F. H. BLANCHARD Notes ER Date 11/16/53

No. ____ Date 11/27/54 Date ____ Map No. ____ Indexed C. Johnson

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+27

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373+85.72 N

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		30+00 -S-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B+W	11:29	26.0 26.0	26.7	1.5 ~~50~~	25.2 ~~242~~	2148	2075
2	R		26.1 24.9	25.3	1.5	238 ✓	2012	1939
3	Y		26.3 23.0	24.1	1.5	226 ✓	1870	1798
4	B+W	11:32	24.0 22.9	23.3	1.5	218 ✓	1727	1627
5	R		24.3 22.9	23.4	1.5	219 ✓	1579	1506
6	Y		22.8 21.4	21.9	1.5	204 ✓	1434	1361
7	B+W	11:36	23.6 20.5	21.5	1.5	200 ✓	1317	1244
8	R		21.7 19.5	20.2	1.5	187 ✓	1213	1140
9	Y		19.8 19.6	20.3	1.5	188 ✓	1135	1062
10	B+W	11:38	19.9 18.1	18.7	1.5	172 ✓	1035	962
11	R		18.0 16.7	17.1	1.5	156 ✓	952	879
12	Y		18.6 14.2	15.7	1.5	142 ✓	892	819
13	B+W	11:40	15.4 14.0	14.5	1.5	130 ✓	854	781
14	R		14.9 12.7	13.4	1.5	119 ✓	827	754
15	Y		12.0 9.1	10.1	1.5	86 ✓	785	712
16	B+W	11:43	9.1 8.0	8.4	1.5 ~~50~~	69 ✓	772	699
17	R							
18	Y							
19	B+W							
20	R							

Profile
X-Sec.
No.
Plotted
Date
Checked
Date
Notes Red.
Date
Notes Chkd. CEM
Date 1/27/54
Division No.
Job No. 8412
Survey of BERCK EROSION STUDY
Survey by F. H. BLANCHARD
Notes Robbins 11/16/53
Indexed E. C. Johnson
Date
B. 1506 PG. 56

764.298 307 4-50

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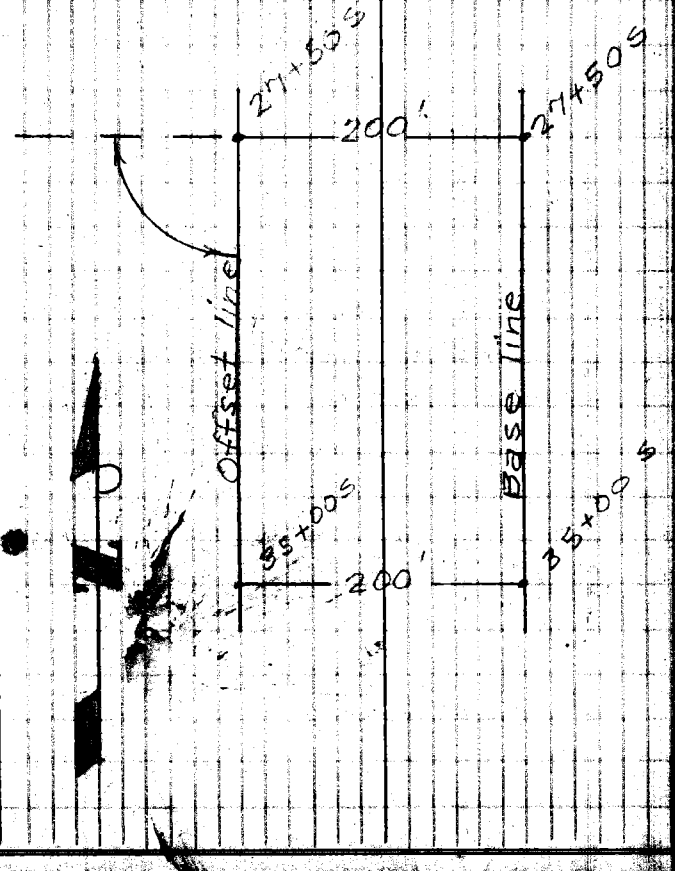
Profile Notes Red_____ Plotted_____ Job No. 8412 Division No._____
No._____ Date_____ Date_____ Survey of Roosevelt Hwy. Erosion Studies
Notes Checked_____ Surveyed by J.M. BLANCHARD & C. JONES Date 11-5-52
No._____ Date_____ Date_____ Map No._____ Indexed_____ Date_____

F. B. 1506 Pg. 57

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At OR		# Color	Time Hor. Ang.	Remarks
	1	B & W	7 09	90 00
	2	R		90 00
	3	Y		90 00
	4	B & W	7 16	90 00
	5	R		90 00
	6	Y		90 00
	7	B & W	7 21	90 00
	8	R		90 00
	9	Y		90 00
	10	B & W	7 27	90 00
	11	R		90 00
	12	Y		90 00
	13	B & W	7 31	90 00
	14	R		90 00
	15	Y		90 00
	16	B & W	7 36	90 00
	17	R		90 00
	18	Y		90 00
	19	B & W	7 47	90 00
	20	R		90 00

Range 27+50 S



27+50 S 200' W. Offset
35+00 S 200' W. Offset

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	Range	27+50 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90 00		
		22	BEW	7:52	90 00		
		23	R.		90 00		
		24	Y.		90 00		
27+50 S	200' W offset						
	35+00 S 200' W offset						

F. S. 1506 Pg. 58
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F. H. BLANCHARD Notes FHB Notes Chkd. Checked X-Sec.
Indexed O. Johnson Date Date Date No.

76L298 307 10-51

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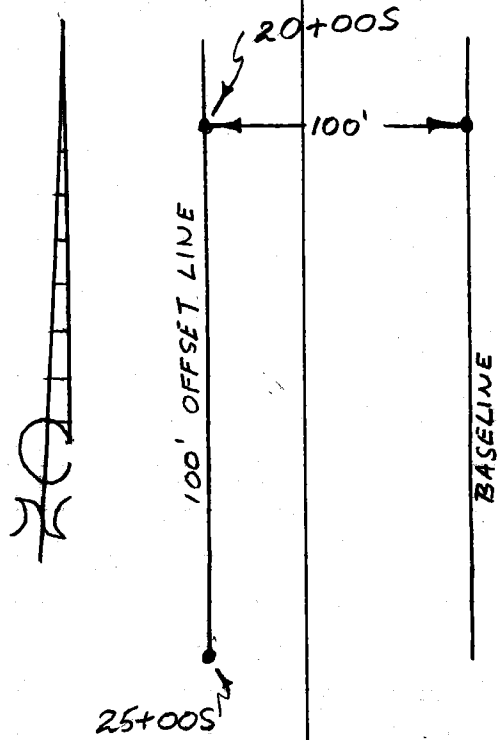
STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 27+50S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
20+00S 100' OFFSET	25+00S 100' OFFSET	1	B&W	7:09	69°41	
		2	R		68°47	
		3	Y		67°08	
		4	B&W	7:15	65°28	
		5	R		63°37	
		6	Y		60°09	
		7	B&W	7:21	57°33	
		8	R		56°17	
		9	Y		53°37	
		10	B&W	7:26	50°06	
		11	R		46°31	
		12	Y		44°40	
		13	B&W	7:31	41°54	
		14	R		41°46	
		15	Y		39°58	
		16	B&W	7:37	39°22	
		17	R		38°55	
		18	Y		38°14	
		19	B&W	7:47	37°51	
		20	R		37°02	



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd ____ Checked ____ Survey by F.H.B. Notes J.M.U. Date 11-23-53
No. ____ Date ____ Date ____ Map No. ____ Index C. Jones Date ____

F.B. 1506 Pg. 59

F.B. 1506 PG. 60

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

Survey by F.H.B. Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	CUT-IN 27+50S
20+00S 100' OFFSET	21	Y		36°13	
25+00S 100' OFFSET	22	B&W	7.52	34°19	
	23	R		32°20	
	24	Y		31°00	

76L298 307 8-53

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+48

Do not extend notes this side of this line.

376 + 36.59 N

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	27+50 S	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B&W	7:09	30.9 29.8	30.2	47 ✓	255 ✓	2122	2170
2	R		30.1 29.0	29.4	4.7	247 ✓	2030	2078
3	Y		28.0 27.9	28.2	4.7	235 ✓	1878	1926
4	B&W	7:15	2[illegible] 2[illegible]	27.4	47	227 ✓	1741	1789
5	R		25.9 26.2	26.4	48	216 ✓	1612	1660
6	Y		25.0 25.5	25.4	48	206 ✓	1408	1456
7	B&W	7:21	24.2 25.0	24.7	49	198 ✓	1280	1328
8	R		23.7 24.4	24.1	4.9	192 ✓	1223	1271
9	Y		23.4 23.7	23.7	4.9	188 ✓	1120	1168
10	B&W	7:26	22.8 22.8	23.1	49	182 ✓	996	1044
11	R		21.7 21.5	22.1	50	171 ✓	890	938
12	Y		20.6 20.3	20.9	5.0	159 ✓	842	890
13	B&W	7:31	19.1 19.2	19.5	50	145 ✓	774	822
14	R		18.3 18.0	18.6	51	135 ✓	770	818
15	Y		17.0 17.2	17.3	51	122 ✓	729	777
16	B&W	7:37	15.9 16.2	16.3	52	111 ✓	715	763
17	R		15.0 15.2	15.4	52	102 ✓	705	753
18	Y		13.9 14.5	14.3	53	90 ✓	691	739
19	B&W	7:47	13.0 13.7	13.5	5.3	82 ✓	684	732
20	R		12.0	12.6	53 ✓	73 ✓	666	714

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chkd CEM Checked ____ Survey by EHB Notes ____ Date 11/23/53
Date 1/27/54 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1506 Pg. 61

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat	2/4/50 S	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		13.2 11.3	11.9	5.4 ✓	6.5 ✓	650	698
22	B&W	7.52	11.5 10.2	10.6	5.4	5.2 ✓	611	659
23	R		10.2 9.0	9.4	5.4	4.0 ✓	575	623
24	Y		9.3 7.9	8.4	5.4 ✓	3.0 ✓	550	598
25	B&W							

F. B. 1506 PG. 62 Job No. 8413 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No.
Survey by Notes 11/23/53 Notes Chkd. CEM Checked X-Sec.
Indexed R. C. Johnson Date Date 1/27/54 Date No.

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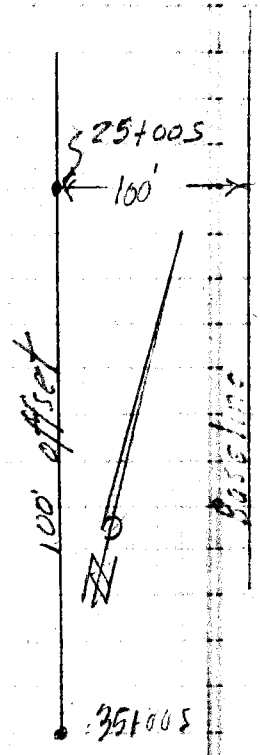
Profile Notes Red____ Plotted____ Job No 6412 Division No.____
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chkd____ Checked____ Survey by FHR Notes FHR Date 11-23-53
No.____ Date____ Date____ Map No.____ Indexed C. J. Cohen Date____
F. B. 1506 Pg. 63

STATION	B. S.	H. I.	F. S.	ELEV.	Range 25+00 S	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		1	B&W	8:04	89° 51'	
		2	R		90 00	
		3	Y		90 00	
		4	B&W	8:08	90 00	
		5	R		90 00	
		6	Y		90 00	
		7	B&W	8:13	90 00	
		8	R		90 00	
		9	Y		90 00	
		10	B&W	8:20	90 00	
		11	R		90 00	
		12	Y		90 00	
		13	B&W	8 24	90 00	
		14	R		90 00	
		15	Y		90 00	
		16	B&W	8 28	90 00	
		17	R		90 00	
		18	Y		90 00	
		19	B&W	8 31	90 00	
		20	R		90 00	

25+00 S 100' W offset

35+00 S 100' W offset



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F. B. 1508 Pg. 64 Job No. 8412 Division No. Notes Red. Plotted No.
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by EH Blanchard Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Range	2.5 Feet
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		21	Y		90	
		22	BBW	8:35	90	
		23	B		90	
		24	Y		90	
		25	BBW	8:37	90	
		26	R		90	
25+00 S	100' W of 25+00					
35+00 S	100' W of 35+00					

76L298 307 10-51

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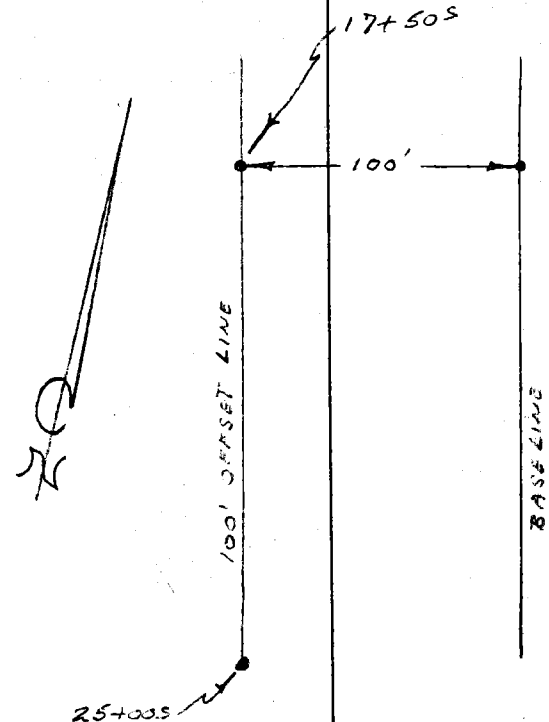
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 25+00S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
17+50S 100' OFFSET	25+00S 100' OFFSET	1	B+W	8:05	70°58	
		2	R		70°02	
		3	Y		68°44	
		4	B+W	8:08	67°15	
		5	R		65°53	
		6	Y		62°35	
		7	B+W	8:13	60°36	
		8	R		57°46	
		9	Y		53°09	
		10	B+W	8:20	47°31	
		11	R		45°08	
		12	Y		43°06	
		13	B+W	8:23	41°01	
		14	R		40°18	
		15	Y		40°16	
		16	B+W	8:28	38°41	
		17	R		37°55	
		18	Y		37°32	
		19	B+W	8:31	36°54	
		20	R		35°36	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Notes J.M.U. Date 11-28-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson Date ____

F.B. 1506 Pg. 65

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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F.B. 1506 Pg. 66 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date No. X-Sec.
Survey by F.H.B. Notes Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 25+00S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		34°52	
17+50S 100' OFFSET	22	BTW	8:34	3[illegible]5	
	23	R		3[illegible]9	
	24	Y		3[illegible]5	
25+00S 100' OFFSET	25	BTW	8:37	2[illegible]04	
	26	R		21°31	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

378 + 87.46 N

+69

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		25+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM.	LA.
1	R+W	8:05	32.9 31.8	32.2	56 ✓	266 ✓	2272	2341
2	R		32.2 30.9	31.3	5.6	257 ✓	2162	2231
3	Y		31.3 30.3	30.6	5.6	250 ✓	2029	2098
4	B+W	8:08	30.1 28.9	29.3	56	237 ✓	1889	1958
5	R		29.3 27.9	28.4	57	227 ✓	1772	1841
6	Y		28.4 27.0	27.5	5.7	218 ✓	1545	1614
7	B+W	8:13	27.6 25.8	26.4	57	207 ✓	1430	1499
8	R		26.8 25.0	25.4	58	196 ✓	1290	1359
9	Y		25.3 24.1	24.5	5.8	18.7 ✓	1100	1169
10	B+W	8:20	24.1 23.0	23.4	5.8	176 ✓	919	988
11	R		23.0 21.9	22.3	5.8	165 ✓	853	922
12	Y		22.4 21.0	21.5	58	157 ✓	801	870
13	B+W	8:23	20.9 19.9	20.2	5.9	143 ✓	753	822
14	R		19.9 19.0	19.3	5.9	134 ✓	736	805
15	Y		19.5 18.3	18.7	5.9	128 ✓	735	804
16	B+W	8:28	18.4 17.1	17.5	5.9	116 ✓	700	769
17	R		17.1 15.8	16.2	5.9	103 ✓	685	754
18	Y		16.2 14.8	15.3	5.9	94 ✓	676	733
19	B+W	8:31	14.9 14.0	14.3	6.0	83 ✓	664	706
20	R		14.1 12.9	13.3	6.0 ✓	73 ✓	637	692

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. CEM Checked ____ Survey by EHB Notes ____ Date 11/23/53
No. ____ Date 1/27/54 Date ____ Map No. ____ Index C. Johnson

F. B. 1 JUL Pg. 67

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		25+00S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
21	Y		13.7 12.0	12.6	6.0 ✓	6.6 ✓	623	692
22	B+W	8:34	12.0 11.0	11.3	6.0	5.3 ✓	582	651
23	R		11.1 10.0	10.4	6.0	4.4 ✓	565	634
24	Y		10.5 8.9	9.4	6.0	3.4 ✓	545	614
25	B+W	8:37	9.4 8.0	8.5	6.1	2.4 ✓	517	586
26	R		9.3 7.4	8.0	6.1 ✓	1.9 ✓	491	560

F. B. 1504 Pg. 68 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by FHB Notes 11/23/53 Notes Chkd. CEM Checked No.
Indexed R. C. Johnson Date Date 1/27/54 Date

76L298 307 6-53

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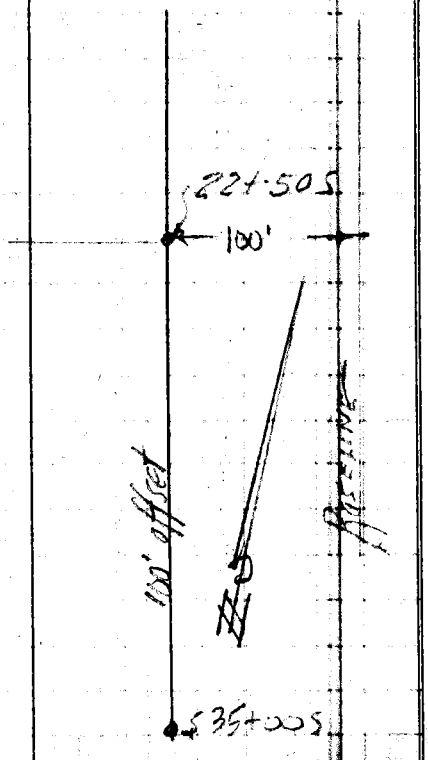
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range 22+50 S
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
22+50 S 100' W offset	35+00 S 100' W offset	1	B&W	9 00	90 00	
		2	R		90 00	
		3	Y		90 00	
		4	B&W	9 03	90 00	
		5	R		90 00	
		6	Y		90 00	
		7	B&W	9 06	90 00	
		8	R		90 00	
		9	Y		90 00	
		10	B&W	9 12	90 00	
		11	R		90 00	
		12	Y		90 00	
		13	B&W	10:00	90 00	
		14	R		90 00	
		15	Y		90 00	
		16	B&W	10:04	90 00	
		17	R		90 00	
		18	Y		90 00	
		19	B&W	10:07	90 26	
		20	R		90 00	



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes EHB Date 11-23-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John

F. B. 1505 Pg. 69

F. S. 1506 Pg. 70 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F.H. Blanchard Notes FHB Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight Ft.	#	Color	Time	Hor. Ang.	
22+50S					100' W offset
35+00S					100' W offset
	21.	Y	10:09	90 00	
	22.	B&W			
	23.	R			
	24.	B&W	10:12		
	25.				
	26.				
	27.				
	28.				
	29.				
	30.				
	31.				
	32.				
	33.				
	34.				
	35.				
	36.				
	37.				
	38.				
	39.				
	40.				

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75L298 307 8-53

76L298 307 10-51

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ENGINEERING BLDG.

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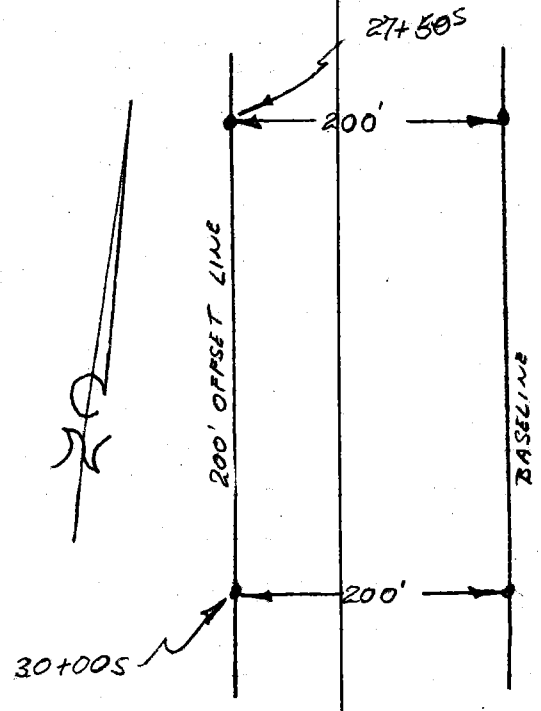
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
30+00S 200' OFFSET / 27+50S 200' OFFSET	1	B+W	9:00	69°30
	2	R		67°53
	3	Y		66°26
	4	B+W	9:04	64°16
	5	R		62°24
	6	Y		59°36
	7	B+W	9:07	57°08
	8	R		51°17
	9	Y		49°14
	10	B+W	9:11	46°33
	11	R	9:12	43°48
	12	Y	9:59	39°05
	13	B+W	10:00	36°20
	14	R		35°27
	15	Y		33°45
	16	B+W	10:04	33 28
	17	R		31 56
	18	Y		31 53
	19	B+W	10 06	30 15
	20	R		28 32

CUT-IN 22+50 S

Remarks



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 71
No. ____ Date ____ Date ____ Survey of BEACH & ROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Notes J.M.W. Date 11-23-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L298 307 10-51

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F.B. 1505 PG. 72 Job No. 2412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No. Profile
Survey by F.W.B. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Notes Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 22+50S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
30+00S 200' OFFSET	21	Y		27 46	
	22	BTW	10 09	26 24	
	23	R		24 23	
	24	Y		23 19	
27+50S 200' OFFSET	25	BTW	10 12	21 23	

76L298 307 8-53

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+93

Do not extend notes this side of this line.

381 + 38.65 N

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		22 + 50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	9:00	33.0 32.0	32.3	6.3 ✓	26.0 ✓	2202	2295
2	R		31.8 30.6	31.0	6.3	24.7 ✓	2042	2135
3	Y		32.0 29.6	30.4	6.3	24.1 ✓	1920	2013
4	B+W	9:03+	30.2 28.9	29.3	6.3	23.0 ✓	1755	1848
5	R		29.3 27.9	28.4	6.4	22.0 ✓	1634	1727
6	Y		28.0 26.9	27.3	6.4	20.9 ✓	1479	1572
7	B+W	9:07	27.4 26.0	26.5	6.4	20.1 ✓	1360	1453
8	R		26.6 24.8	25.4	6.4	19.0 ✓	1135	1228
9	Y		25.4 24.2	24.6	6.4	18.2 ✓	1070	1163
10	B+W	9:11	24.1 23.1	23.4	6.4	17.0 ✓	991	1084
11	R		24.8 22.9	23.5	6.4	17.1 ✓	920	1013
12	Y	9:59	23.7 21.8	22.4	6.5	15.9 ✓	810	903
13	B+W	10:00	22.3 21.0	21.4	6.5	14.9 ✓	751	844
14	R		21.1 19.0	20.3	6.5	13.8 ✓	735	828
15	Y		20.3 19.0	19.4	6.5	12.9 ✓	700	793
16	B+W	10:04	20.7 18.7	19.4	6.5	12.9 ✓	693	786
17	R		19.8 17.0	17.9	6.5	11.4 ✓	667	760
18	Y		17.4 16.1	16.5	6.5	10.0 ✓	666	759
19	B+W	10:07	16.9 14.9	15.2	6.5	8.7 ✓	638	731
20	R		15.5 13.5	14.2	6.5 ✓	7.7 ✓	608	701

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 73
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. CEM Checked ____ Survey by EKB Notes ____ Date 11/23/53
No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		22+50S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
21	Y		13.3 12.2	12.7	65	6.2 ✓	595	688
22	B+W	10:09	13.3 11.1	11.8	65	5.3 ✓	572	665
23	R		10.4 10.1	10.9	65	4.4 ✓	540	633
24	Y		11.1 9.0	9.7	64	3.3 ✓	524	617
25	B+W	10:12	10.7 8.1	9.0	64	2.6 ✓	494	587

F. B. 1506 Pg. 74 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of [illegible] Date Date X-Sec.
Survey by [illegible] Notes 11/23/53 Notes Chkd. CEM Checked No.
Indexed C. Johnson Date Date 1/27/54 Date

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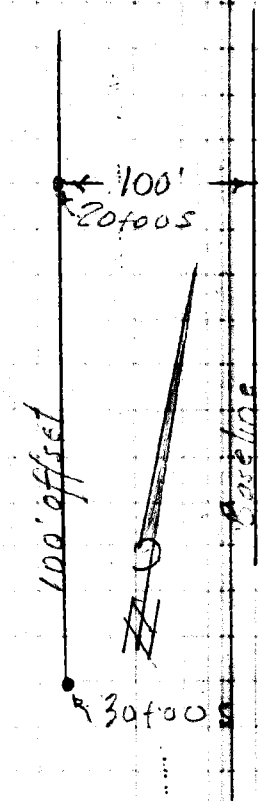
Do not extend notes this side of this line.

Range 20+00 S

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
20+00 S 100' W OFFSET	30+00 S 100' W OFFSET	1	B&W	10:27	90 00	
		2	R		90 00	
		3	Y		90 00	
		4	B&W	10:31	90° 08'	
		5	R		90 00	
		6	Y		90 00	
		7	B&W	10:34	90 00	
		8	R		90 00	
		9	Y		90 00	
		10	B&W	10:39	90 00	
		11	R		90 00	
		12	Y		90 00	
		13	B&W	10:42	90 00	
		14	R		90 00	
		15	Y		90 00	
		16	B&W	10:46	90 00	
		17	R		90 00	
		18	Y		90 00	
		19	B&W	10:48	90 00	
		20	R		90 00	



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes F.H.B. Date 11-23-3
No. Date Date Map No. Indexed C. Johnson Date

F. B. 1506 Pg. 75

F.B. 1505 Pg. 76 Job No. 3412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by F.H. Blanchard Notes FHB Notes Chkd. _____ Checked _____ X-Sec.

Indexed K. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 3Q7 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Range	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
20+00 S 100' W Offset	21	Y		90.00		
30+00 S 100' W Offset	22	B&W	10:50	90.00		
	23	R		90.00		
	24	Y		90.00		
	25	B&W	10:55	90.00		
	~~26~~	~~R~~		~~90.00~~		
	~~27~~	~~Y~~		~~90.00~~		
	~~28~~	~~B&W~~		~~90.00~~		
	~~29~~	~~R~~		~~90.00~~		

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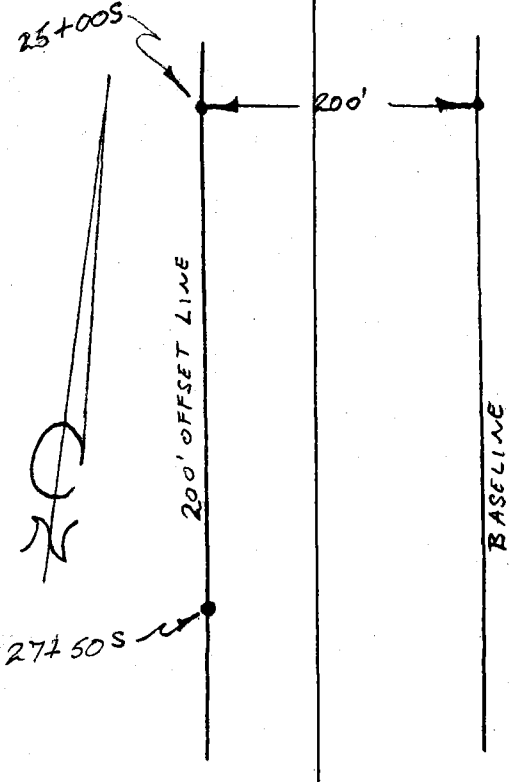
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
27+50 S 200' OFFSET	25+00 S 200' OFFSET	1	B&W	10 26	68 40
		2	R		67 17
		3	Y		65 53
		4	B&W	10 30	63 41
		5	R		61 44
		6	Y		59 16
		7	B&W	10 34	56 12
		8	R		53 53
		9	Y		47 45
		10	B&W	10 39	43 49
		11	R		40 28
		12	Y		37 05
		13	B&W	10 42	36 10
		14	R		34 01
		15	Y		32 31
		16	B&W	10 46	31 13
		17	R		30 52
		18	Y		30 05
		19	B&W	10 48	29 27
		20	R		28 09

CUT-IN 20+00S

Remarks



Profile
No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes J.M.U. Date 11-23-53
Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson Date ____

F.B. 1506 Pg. 77

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F.B. 1506 Pg. 78 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile
Survey of BEACH EROSION STUDIES Date _____ No. _____
Survey by F.H.-B. Notes _____ Notes Chkd. _____ Checked _____ X-Sec.
Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 20+00S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
27+50 S 200' OFFSET	21	Y		26 21	
	22	B&W	10 51	24 32	
	23	R		23 01	
	24	Y		20 54	
25+00S 200' OFFSET	25	B&W	10 55	18 38	

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat		20 + 00S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM. Remarks	LA
1	B+W	10:27	32.5 31.5	31.8	6.4 ✓	25.4 ✓	2119	2242
2	R		31.8 30.6	31.0	6.4	24.6 ✓	1990	2113
3	Y		31.0 29.7	30.1	6.4	23.7 ✓	1872	1995
4	B+W	10:30	30.4 28.8	29.3	6.4	22.9 ✓	1715	1838
5	R		29.4 28.0	28.5	6.3	22.2 ✓	1595	1718
6	Y		28.8 26.9	27.5	6.3	21.2 ✓	1461	1584
7	B+W	10:34	27.3 26.1	26.5	6.3	20.2 ✓	1320	1443
8	R		27.8 24.8	25.6	6.3	19.3 ✓	1229	1352
9	Y		25.7 23.9	24.5	6.3	18.2 ✓	1024	1147
10	B+W	10:39	24.2 23.0	23.4	6.3	17.1 ✓	920	1043
11	R		23.7 21.9	22.5	6.3	16.2 ✓	840	963
12	Y		22.2 21.0	21.4	6.3	15.1 ✓	768	891
13	B+W	10:42	22.0 20.1	20.7	6.3	14.4 ✓	748	871
14	R		20.9 19.2	19.8	6.3	13.5 ✓	707	830
15	Y		20.1 18.0	18.7	6.2	12.5 ✓	679	802
16	B+W	10:46	19.3 16.7	17.6	6.2	11.4 ✓	655	778
17	R		18.4 16.0	16.8	6.2	10.6 ✓	649	772
18	Y		16.9 15.0	15.6	6.2	9.4 ✓	635	758
19	B+W	10:47	16.2 14.1	14.8?	6.2	8.6? ✓	624	747
20	R		14.1 13.1	13.4	6.2 ✓	7.2 ✓	601	724

Profile No. ____ Notes Red. K.K. Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 79
Date 1-25-54 Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. CEM Checked ____ Survey by EHB Notes ____ Date 11/23/53
Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		20+00S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks S.M.	LA
21	Y		13.2 11.9	12.3	6.2 ✓	6.1 ✓	572	695
22	B+W	10:50	12.8 11.0	11.6	6.2	5.4 ✓	535	658
23	R+		11.5 10.0	10.5	6.2	4.3 ✓	519	642
24	Y		10.3 9.0	9.4	6.2	3.2 ✓	486	609
25	B+W	10:55	9.7 8.0	8.6	6.1 ✓	2.5 ✓	450	573

F. B. 1506 Pg. 80 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH GROUND STUDY Date Date X-Sec.
Survey by FNB Notes 11/23/53 Notes Chkd. CEM Checked No.
Indexed A. Johnson Date Date 1/27/54 Date

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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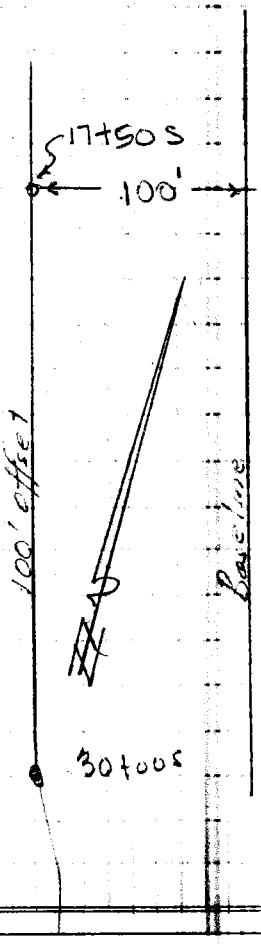
Do not extend notes this side of this line.

Range 17+50 S

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
17+50 S	30+00 S 100' W offset	1	B&W	11:09	90 00	
		2	R		90 00	
		3	Y		90 00	
		4	B&W	11:13	90 00	
		5	R		90 00	
		6	Y		90 00	
		7	B&W	11:17	90 00	
		8	R		90 00	
		9	Y		90 00	
		10	B&W	11:22	90 00	
		11	R		90 00	
		12	Y		90 00	
		13	B&W	11:29	90 00	
		14	R		90 00	
		15	Y		90 00	
		16	B&W	11:33	90 00	
		17	R		90 00	
		18	Y		90 00	
		19	B&W	11:35	90 00	
		20	R		90 00	



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 81
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by EAB Notes EHB Date 11-23-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Date

F. B. 1505 PG. 82 Job No 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F.H. Blanchard Notes Shoemaker Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	21	Y		90 00		
	22	B&W	11:40	90 00		
	23	R		90 00		
	24	Y		90 00		
	25	B&W	11:42	90 00		
	26	R				
	27	Y				
	28	B&W				
17+50 S 100' W offset						
30+00 S 100' W offset						

76L298 307 10-51

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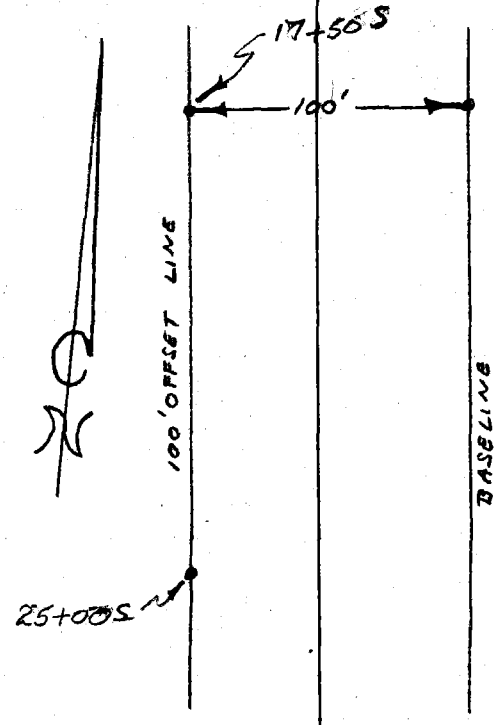
STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
25+00 S	100' OFFSET	1	B&W	11 09	69 53
		2	R		68 37
		3	Y		67 22
		4	B&W	11 13	66 05
		5	R		64 32
		6	Y		61 48
		7	B&W	11 17	59 29
		8	R		56 45
		9	Y		53 31
		10	B&W	11 22	50 31
		11	R		44 34
		12	Y		42 56
		13	B&W	11 29	41 20
		14	R		39 04
		15	Y		37 41
		16	B&W	11 33	37 07
		17	R		35 59
		18	Y		34 31
		19	B&W	11 35	33 28
		20	R		32 22

CUT-IN 17+50 S

Remarks



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 83

No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Note J.M.U. Date 11-23-53

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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Do not extend notes this side of this line.

F.B. 1506 PG. 84

Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No. Profile
Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 17450 S
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		30 29	
	22	B&W	11 40	30 00	
	23	R		28 59	
	24	Y		27 43	
	25	B&W	11 43	25 27	
25400 S / 100' OFFSET					
17450 S / 100' OFFSET					

76L298 307 8-53

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#943

Do not extend notes this side of this line.

386+41.48 N

Boat 17+50 S

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	SM	Remarks	WA
			32.8						
1	B+W	11:10	31.7	32.1	59 ✓	26.2 ✓	2145		2288
			31.7						
2	R		30.6	31.0	5.9	25.1 ✓	2017		2160
			30.7						
3	Y		29.8	30.1	5.9	24.2 ✓	1899		2042
			30.5						
4	B+W	11:13	28.9	29.4	59	23.5 ✓	1730		1933
			28.9						
5	R		28.2	28.5	58 ✓	22.7 ✓	1676		1819
			28.3						
6	Y		27.1	27.5	5.8	21.7 ✓	1499		1642
			27.7						
7	B+W	11:17	26.1	26.6	5.8	20.8 ✓	1373		1516
			25.9						
8	R		24.9	25.7	5.8	19.9 ✓	1242		1385
			25.5						
9	Y		24.2	24.6	5.8	18.8 ✓	1112		1255
			24.1						
10	B+W	11:22	23.9	24.0	58	18.2 ✓	1010		1153
			23.7						
11	R		22.8	22.4	57 ✓	16.1 ✓	840		983
			22.7						
12	Y		21.0	21.6	5.7	15.9 ✓	798		941
			21.4						
13	B+W	11:29	20.0	20.5	5.7	14.8 ✓	760		903
			20.3						
14	R		19.0	19.4	57	13.7 ✓	710		853
			19.3						
15	Y		18.1	18.5	56 ✓	12.9 ✓	680		823
			18.5						
16	B+W	11:33	17.1	17.6	5.6	12.0 ✓	668		811
			17.7						
17	R		15.9	16.5	5.6	10.9 ✓	645		788
			16.3						
18	Y		15.0	15.4	5.6	9.8 ✓	616		759
			15.6						
19	B+W	11:35	13.8	14.4	5.6	8.8 ✓	596		739
			12.0						
20	R		12.7	13.4	56 ✓	7.8 ✓	575		718

Profile Notes Red. Plotted Job No. 2413 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. GEM Date Survey by EVB Notes Date 11/30/54
No. Date Checked Date Map No. Indexed C. Johnson Date
F. B. 15706 Pg. 25

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		17+50S	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks	
								SM	LA
21	Y		12.7 11.6	12.0	5.5	~~6.6~~ 6.5		541	684
22	B+W	11:40	12.3 11.0	11.4	5.5	6.0 5.9		534	677
23	R		11.9 10.6	10.6	5.5	~~5.2~~ 5.1		515	658
24	Y		10.7 9.0	9.6	5.5	~~4.2~~ 4.1		496	639
25	B+W	11:42	10.7 8.0	8.9	5.5	~~3.5~~ 3.4		457	600

F. B. 1506 Pg. 86 Job No. 2412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by FRB Notes 11/23/53 Notes Chkd. CEM Checked No.
Indexed A. C. Johnson Date Date 1/27/54 Date

76L298 307 10-51

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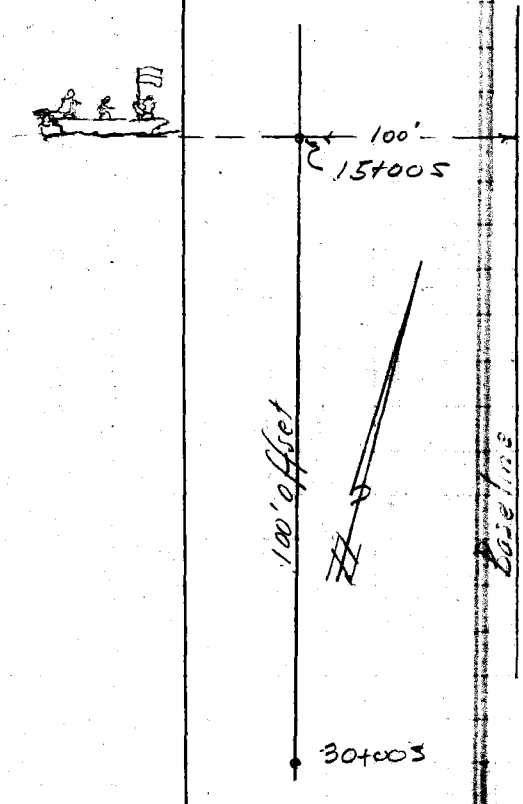
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 15+00S
Inst. Sight At / On	*	Color	Time	Hor. Ang.	Remarks
15+00S 100'W offset	1	B&W	11:52	90 00	
	2	R		90 00	
	3	Y		90 00	
	4	B&W	11 56	90 00	
	5	R		90 00	
	6	Y		90 00	
	7	B&W	12 01	90 00	
	8	R		90 00	
	9	Y		90 00	
	10	B&W	12 05	90 00	
	11	R		90 00	
	12	Y		90 00	
	13	B&W	12 11	90 00	
	14	R		90 00	
	15	Y		90 00	
	16	B&W	12 14	90 00	
	17	R		90 00	
	18	Y		90 00	
	19	B&W	12 16	90 00	
	20	R		90 00	



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 87
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by EHB Notes EHB Date 11-23
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F.B. 1505 PG. 88 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by F.H. Blanchard Notes FHB Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

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STATION	B.S.	H.I.	F.S.	ELEV.	Range	15+00 S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
15+00 S 100' W offset	21	Y		90 00		
30+00 S 100' W offset	22	B&W	1218	90 00		
	23	R		90 00		
	~~24~~	~~Y~~		~~90 00~~		
	~~25~~	~~B&W~~		~~90 00~~		
	~~26~~	~~R~~		~~90 00~~		
	~~27~~	~~Y~~		~~90 00~~		
	~~28~~	~~B&W~~		~~90 00~~		

76L298 307 10-51

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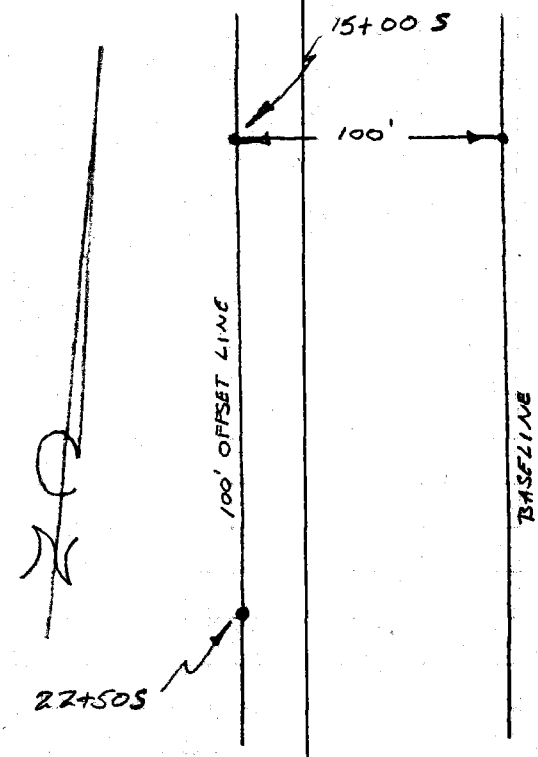
STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
22+50 S 100' OFFSET	15+00 S 100' OFFSET	1	B&W	11 52	68 53
		2	R		67 12
		3	Y		65 14
		4	B&W	11 57	63 01
		5	R		60 19
		6	Y		57 35
		7	B&W	12:02	55°56
		8	R		49°50
		9	Y		45°59
		10	B&W	12:06	42°34
		11	R		40°09
		12	Y		38°40
		13	B&W	12:10	37°29
		14	R		36°10
		15	Y		34°45
		16	B&W	12:13	33°26
		17	R		32°17
		18	Y		31°30
		19	B&W	12:16	30°30
		20	R		29°32

CUT-IN 15+00 S

Remarks



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 89

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes J.M.U. Date 11-29-53

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 1506 PG. 90 | Job No. 8412 Division No. | Notes Red. | Plotted | No. | Profile
Survey of BEACH ERosion STUDIES | Date | Date | No. | X-Sec.
Survey by M.M-B. | Notes | Notes Chkd. | Checked
Indexed E. C. Johnson | Date | Date | Date

76L298 307 10-51

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CUT-IN 15+005

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y		25°12	
	22	B+W	12:18	27°03	
	23	R		28°55	
22+50 S 100' OFFSET					
15+00 S 100' OFFSET					

76F3098 247 4-53

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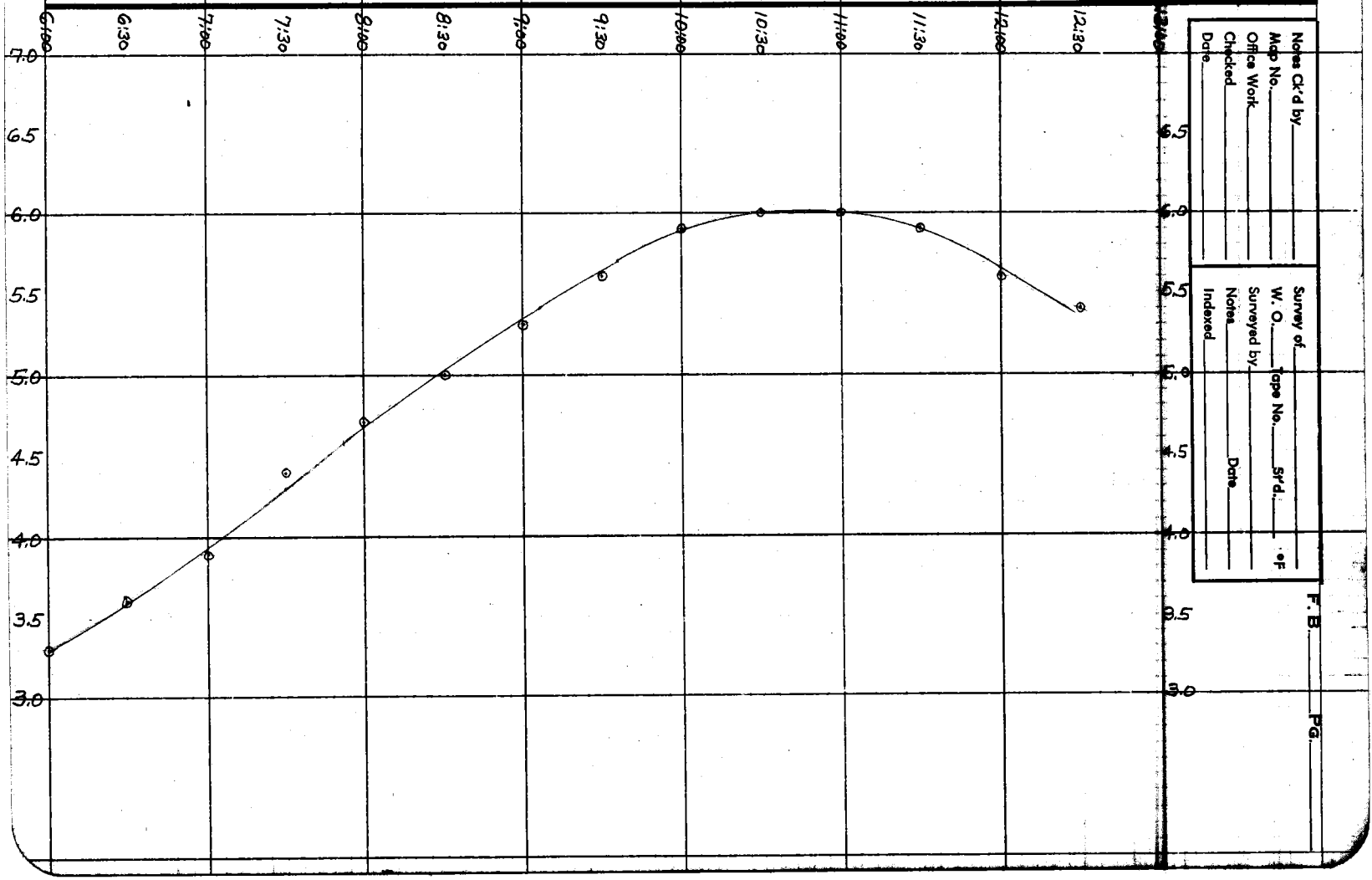
November 24, 1953



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

Survey of
W. O. Tape No. St'd.
Surveyed by
Notes Date
Indexed

F. B. PG.

December 1, 1953

F. B. 1506 PG.

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+157

Do not extend notes this side of this line.

388 + 91.82 N

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		15+00S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	11:53	32.4 29.1	30.2	53 ✓	24.9 ✓	2041	2198
2	R		29.9 28.9	29.2	53	23.9 ✓	1873	2030
3	Y		30.0 27.8	28.5	53	23.2 ✓	1728	1885
4	B+W	11:56	28.3 26.8	27.3	52 ✓	22.1 ✓	1573	1730
5	R		27.2 25.9	26.3	52	21.1 ✓	1418	1575
6	Y		26.6 25.1	25.6	52	20.4 ✓	1280	1437
7	B+W	12:01	25.2 24.0	24.4	~~5.1~~ 5.2	~~19.3~~ 19.2	1209	1366
8	R		24.2 23.0	23.4	5.1	18.3 ✓	990	1147
9	Y		22.9 21.8	22.5	5.1	17.4 ✓	875	1032
10	B+W	12:06	21.2 20.0	20.4	51	15.3 ✓	789	946
11	R		20.8 19.0	19.6	50 ✓	14.6 ✓	732	889
12	Y		19.1 17.9	18.3	5.0	13.3 ✓	700	857
13	B+W	12:10	18.2 17.1	17.5	5.0	12.5 ✓	675	832
14	R		18.0 16.1	16.7	5.0	11.7 ✓	648	805
15	Y		16.0 15.1	15.4	49 ✓	10.5 ✓	620	777
16	B+W	12:13	15.4 13.8	14.3	4.9	9.4 ✓	595	752
17	R		14.3 13.0	13.4	4.9	8.5 ✓	574	731
18	Y		13.2 11.8	12.3	4.9	7.4 ✓	560	717
19	B+W	12:15	12.7 11.0	11.6	4.9	6.7 ✓	541	698
20	R		12.2 10.1	10.8	4.9 ✓	5.9 ✓	525	682

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. CEM Checked Survey by EHR Notes Date 11/23/53
No. Date 1/27/54 Date Map No. Indexed C. Johnson Date

F. B. 1506 Pg. 91

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		15+00S	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	SM	LA
21	Y		11.5 9.2	10.0	4.9 ✓	5.1 ✓		510	667
22	[illegible]	12:17	10.3 8.5	9.1	4.3	4.3 ✓		483	640
23	R		9.3 7.0	7.8	4.3 ✓	3.0 ✓		404	561

F. B. 1506 PG. 92 Job No. 2412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH ERISION STUDY Date Date X-Sec.
Survey by EHB Notes 11/23/53 Notes Chkd. CEM Checked No.
Indexed A. C. Johnson Date Date 1/27/54 Date

F. B. 1506 PG. 93

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

TIDE GAGE

STANDARD TIME NOV 24 1953

TIME	GAGE
600	3.3
630	3.6
700	3.9
730	4.4
800	4.7
830	5.0
900	5.3
930	5.6
1000	5.9
1030	6.0
1100	6.0
1130	5.9
1200	5.6
1230	5.4

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RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

78F3098 247 4-53

F. B. 1506 PG. 94

TIDE GAGE

STANDARD TIME

DEC 1 1933

TIME	GAGE
7 00	5.4
7 30	5.2
8 00	4.7
8 30	4.1
9 00	3.8
9 30	3.0
10 00	2.3
10 30	2.1
11 00	1.7
11 30	1.6
12 00	1.4
12 30	1.5

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.
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76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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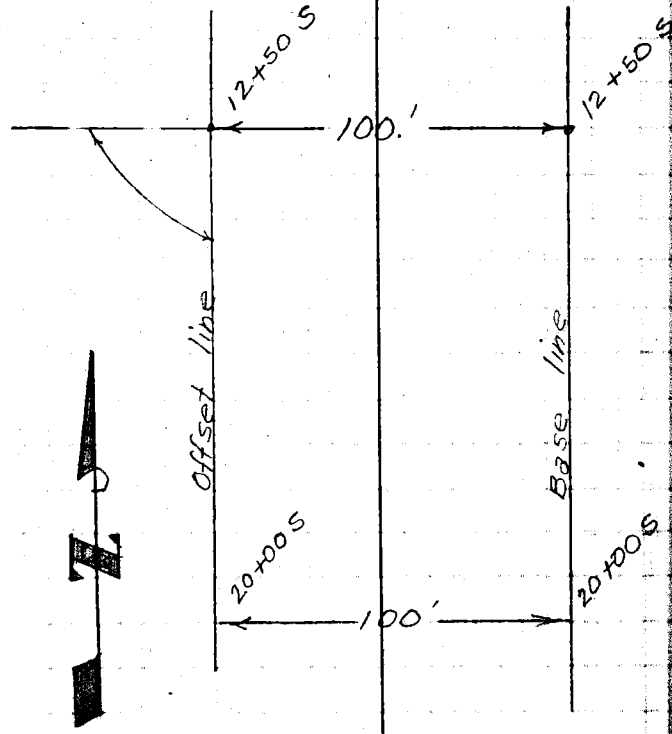
Do not extend notes this side of this line.

Range 12+50 S

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
12+50 S 100' Offset W	1	B & W	6:40	90°00'
	2	R		"
	3	Y		"
	4	B & W	6:44	"
	5	R		"
	6	Y		"
	7	B & W	6:49	"
	8	R		"
	9	Y		"
	10	B & W	6:55	"
	11	R		"
	12	Y		"
	13	B & W	7:00	"
20+00 S 100' Offset W	14	R		89° 43
	15	Y		90° 00'
	16	B & W	7:02	"
	17	R		"
	18	Y		"
	19	B & W	7:05	"
	20	R		90° 00

Remarks



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Shade
X-Sec. Notes Chkd. Checked Survey by H. BLANCHARD, O.E.S. Date 11-24-53
No. Date Date Map No. Indexed Johnson Date

F. B. 1506 Pag 5

F. B. 1566 PG. 96

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

Survey of F. H. BLANCHARD Date _____ Date _____ No. _____

Survey by A. O. Johnson Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	12+50 S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
12+50 S 100'W offset	21	Y		90° 00'		
30+00 S 100'W offset.	22	B&W	8:33	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B&W				
	26	R				
		Y				

76L298 307 8-53

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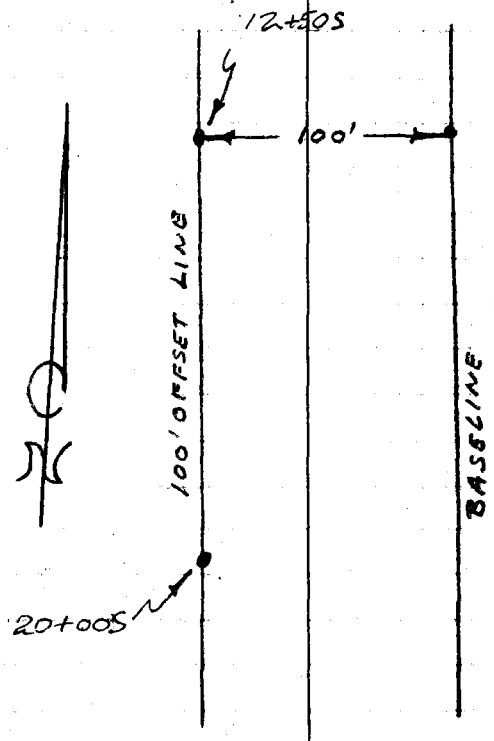
Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes HMW. Date 11-24-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 97

CUT-IN 12+50S

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
20+00S 100' OFFSET	1	B&W	6:40	69°20
	2	R		69°07
	3	Y		68°06
	4	B&W	6:44	66°23
	5	R		65°19
	6	Y		63°18
	7	B&W	6:49	61°49
	8	R		59°25
	9	Y		56°06
12+50S 100' OFFSET	10	B&W	6:55	51°21
	11	R		47°06
	12	Y		42°52
	13	B&W	6:59	39°42
	14	R		38°54
	15	Y		36°32
	16	B&W	7:02	36°09
	17	R		35°26
	18	Y		33°21
	19	B&W	7:05	32°07
	20	R	7:32	33°33

Remarks



F. B. 1506 Pg. 98 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by F.H.B. | Notes | Notes Chkd. | Checked | X-Sec.

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

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
20+00S 100' OFFSET					
12+50S 100' OFFSET					
Instsight	#	Color	Time	Hor. Ang.	
	21	Y		3°29	
	22	Blu	7:34	2°45	
	23	R		2°12	
	24	Y		2°35	
					CUT-IN
					12+50S

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		12 + 50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B&W	6:40	30.6 29.0	29.5	3.7 ~~3.8~~	~~25.7~~ 25.8	2090	2260
2	R		30.0 29.1	29.4	3.7	~~25.6~~ 25.7	2068	2238
3	Y		28.9 28.0	28.3	3.7	~~24.5~~ 24.6	1969	2139
4	B&W	6:44	28.6 28.0	28.2	3.7	~~24.2~~ 24.5	1817	1987
5	R		27.3 26.0	26.4	3.8	~~22.5~~ 22.6	1735	1905
6	Y		27.0 25.3	25.9	3.8	221 ✓	1592	1762
7	B&W	6:49	26.2 24.3	24.9	3.8	211 ✓	1501	1671
8	R		25.6 24.5	24.9	38	211 ✓	1371	1541
9	Y		24.5 23.4	23.8	39 ✓	199 ✓	1218	1388
10	B&W	6:55	23.1 21.9	22.3	3.9	18.4 ✓	1037	1207
11	R		21.5 20.7	21.0	3.9	171 ✓	907	1077
12	Y		20.0 19.3	19.5	3.9	156 ✓	796	966
13	B&W	6:59	19.5 17.7	18.3	3.9	144 ✓	723	893
14	R		17.9 17.0	17.3	3.9	134 ✓	705	875
15	Y		17.2 16.7	16.9	39	13.0 ✓	655	825
16	B&W	7:01	14.9 14.0	14.3	40 ✓	10.3 ✓	648	818
17	Y		16.0 14.8	15.2	4.0	11.2 ✓	615	785
18	Y		15.2 13.0	13.7	4.0	9.7 ✓	593	763
19	B&W	7:05	13.6 12.6	12.9	4.0	8.9 ✓	570	740
20	R	7:32	14.5 13.9	14.1	4.3 ~~4.0~~	~~10.1~~ 9.8	597	767

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 99

No. ____ Date ____ Date ____ Survey of Board Erosion Studies

X-Sec. Notes Chkd. CEM Checked ____ Survey by EH.B Notes ____ Date 11/24/53

No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. 1506 PG. 100
Survey of Beach Erosion Studies
Survey by EHB Notes 11/24/53
Indexed C. Johnson Date
Job No. 8412 Division No.
Notes Red. Date
Notes Chkd. CEM Date 1/27/54
Profile No. Plotted Date Checked Date
X-Sec. No.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	12-30-53	
#	Color	Time	Meas Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		14.0 12.9	13.3	4.3	9.+ 9.0	578	748
22	B&W	7:33	13.0 11.0	11.7	4.3	7.4 ✓	546	716
23	R		11.3 10.0	10.4	4.3	6.1 ✓	488	658
24	Y		10.1 9.0	9.4	4.4	5.+ 5.0	492	662

76L298 307 4-50

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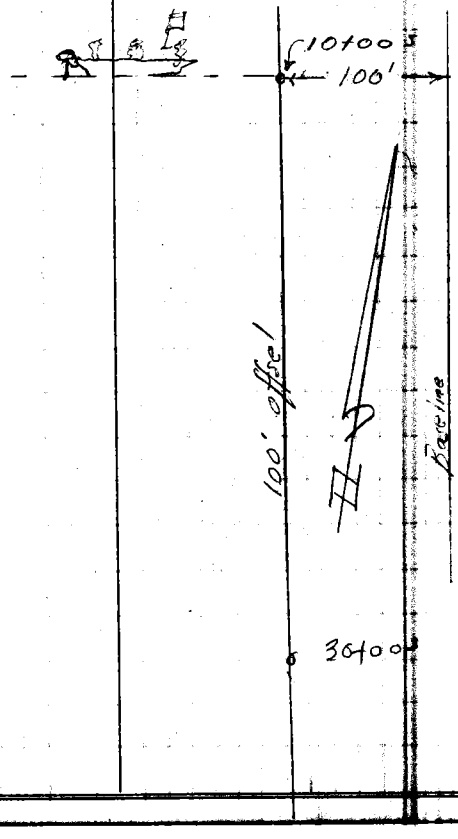
Range 10+00 S

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
10+00 S 100' W offset	1	B&W	7:52	89°52'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	7:55	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	7:58	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	8:00	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	8:03	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	8:06	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	8:08	89°35'	
	20	R		90°00'	



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB. Notes EHB Date 11-24-58
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible]

F. B. 1505 Pg. 101

F. B. 1505 Pg. 102 Job No. 842 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by EH Blanchard Notes EHB Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range	107005
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90 00		
		22	B&W				
		23	R				
		24	Y				
107005. 100' W offset		25	B&W				
		26	R				
		27	Y				
	307005 100' W offset	28	B&W				

76L298 307 8-53

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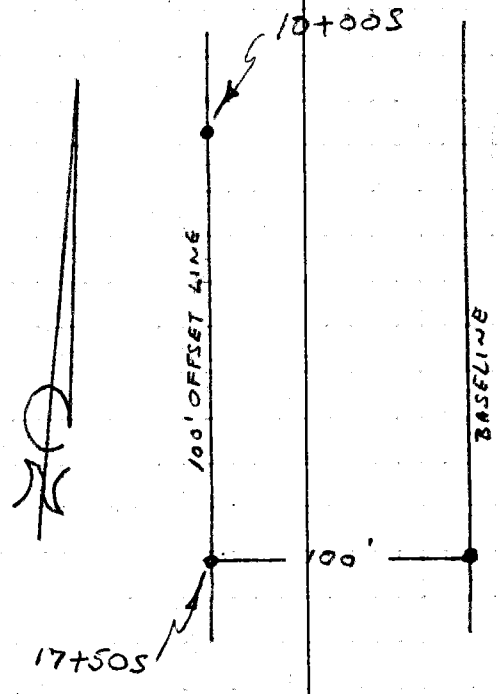
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 10+00 S
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
17+50 S 100' OFFSET / 10+00 S 100' OFFSET	1	B&W	7:52	71°29	
	2	R		70°15	
	3	Y		69°00	
	4	B&W	7:56	67°47	
	5	R		65°44	
	6	Y		63°31	
	7	B&W	7:58	60°50	
	8	R		57°59	
	9	Y		54°53	
	10	B&W	8:01	51°47	
	11	R		49°11	
	12	Y		46°17	
	13	B&W	8:04	43°20	
	14	R		40°18	
	15	Y		36°47	
	16	B&W	8:07	34°27	
	17	R		33°28	
	18	Y		29°58	
	19	B&W	8:09	29°41	
	20	R		28°34	



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes JMU Date 11-24-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 103

F.B. 1506 PG. 104 Job No. 8212 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

761.298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
					17+50 S 100' OFFSET
Inst. sight	# 21	Color Y	Time	Hor. Ang.	CUT-IN 10+00 S
					10+00 S 100' OFFSET

76L298 307 10-51

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Profile Notes Red Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd CEM Checked Survey by FHB Notes ER Date 1/24/53
No. Date 1/27/54 Date Map No. Indexed C. Johnson

F.B. 1506 Pg. 105

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	10+00 S		
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks	LA
1 Blk	7:52	32.3 31.5 33.0	31.8	4 6	27.2 ✓	2340		2523
2 R		31.1 31.9	31.7	4.6	27.1 ✓	2192		2375
3 W		30.8 30.5	30.6	4.6	26.0 ✓	2055		2238
4 Blk	7:55	29.3 29.2	29.7	4.6	25.1 ✓	1938		2121
5 R		28.0 27.6	28.4	4.6	23.8 ✓	1767		1950
6 W		26.0 26.4	26.5	46	~~11.9~~ 21.9	1608		1791
7 Blk	7:58	25.1 26.7	25.5	4 7	20.8 ✓	1446		1629
8 R		24.2 25.0	25.0	4.7	20.3 ✓	1300		1483
9 W		24.0 24.0	24.3	4.7	19.6 ✓	1169		1352
10 Blk	8:00	22.9 24.0	23.3	4.7	18.6 ✓	1051		1234
11 R		22.5 22.1	23.0	4.7	18.3 ✓	966		1149
12 W		21.0 21.8	21.4	4.7	16.7 ✓	884		1067
13 Blk	8:04	20.6 19.5	21.0	4.7	16.3 ✓	806		989
14 R		18.9 18.0	19.1	4.7	14.4 ✓	735		918
15 W		17.2	17.5	4.7	12.8 ✓	660		843
16 Blk	8:06	16.0 15.0	15.3	4.7	10.6 ✓	615		798
17 R		13.0 13.6	14.0	4 7	9.3 ✓	596		779
18 W		10.8 12.0	11.7	4 8	6.9 ✓	532		715
19 Blk	8:09	10.2 10.0	10.8	4.8	6.0 ✓	527		710
20 R		10.0	10.7	48	5.9 ✓	509		692

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		10+00 S-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
21	Y		10.0 8.0	8.7	4.8 ✓	3.9 ✓	462	645

F.B. 1506 PG. 106 Job No. 8412 Division No. Notes Red. Plotted No. Profile

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by F.H.B. Notes 11/24/53 Notes Chkd. CEM Checked No.

Indexed [illegible] Date Date 1/27/54 Date

76L298 307 4-50

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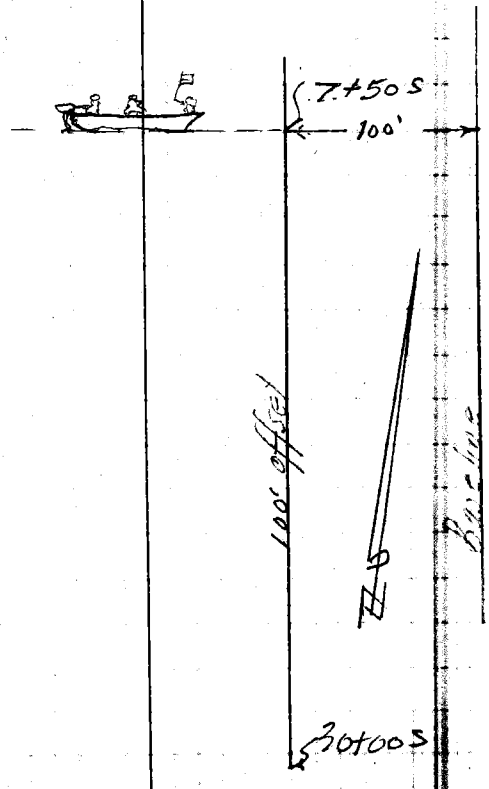
Profile Notes Red. Plotted. Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Ckkd. Checked Survey by E.H.B. Notes Ckkd. Date 11-24-53
No. Date Date Map No. Indexed C. Johnson

F. B. 15065 Pg. 107

STATION	B. S.	H. I.	F. S.	ELEV.	Range 7+50S Remarks
Inst. Sight At : On		# Color	Time	Hor. Ang.	
	1	B&W	8:22	90°00'	
	2	R		90°00	
	3	Y		90°06	
	4	B&W	8:27	90°08	
	5	R		90°16	
	6	Y		90°00	
	7	B&W	8:30	90°00	
	8	R		90°00	
	9	Y		90°00	
	10	B&W	8:32	90°00	
	11	R		90°00	
	12	Y		90°00	
	13	B&W	8:34	90°00	
	14	R		90°00	
	15	Y		90°00	
	16	B&W	8:36	90°00	
	17	R		90°00	
	18	Y		89°29	
	19	B&W	8:38	90°00	
	20	R		90°00	

7+50S 100' W offset

30+00S 100' W offset



F.B. 1505 Pg. 108 | Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by EH Blanchard Notes EH Blanchard Date Checked X-Sec.
Indexed C. Tobiason Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.	Range 7+505	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		9000		
		22	B&W				
		23	R				
		24	Y				
		25	B&W				
		26	R				
		27	Y				
7+505 100'W offset							
30+005 100'W offset							

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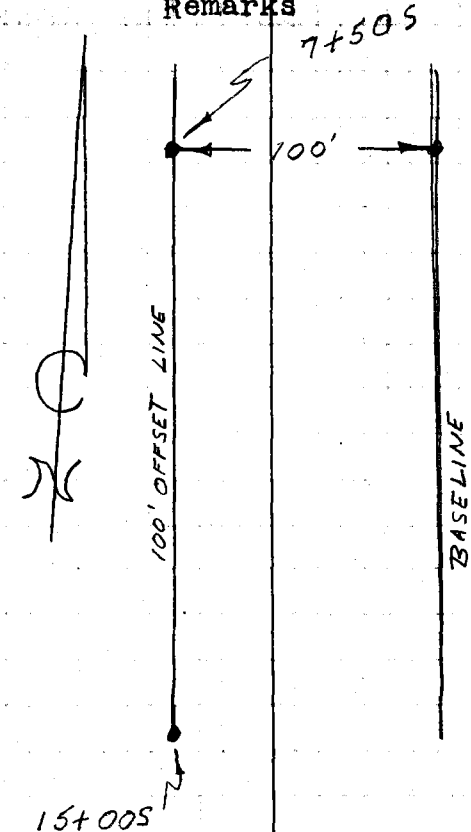
STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
15+00S 100' OFFSET	7+50S 100' OFFSET	1	B+W	8:23	73°31
		2	R		72°12
		3	Y		70°11
		4	B+W	8:27	68°10
		5	R		65°19
		6	Y		59°44
		7	B+W	8:30	56°25
		8	R		53°19
		9	Y		50°40
		10	B+W	8:33	47°52
		11	R		45°25
		12	Y		41°48
		13	B+W	8:34	39°44
		14	R		37°50
		15	Y		36°01
		16	B+W	8:36	34°43
		17	R		32°37
		18	Y		32°12
		19	B+W	8:38	30°32
		20	R		28°17

CUT-IN 7+50S

Remarks



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes U.M.U. Date 11-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Date

F. B. 1506 Pg. 109

F.B. 1506 Pg. 110 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.

Indexed R. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
15+00S 100' OFFSET	Inst. Sight At On	# 21	Color Y	Time	Hor. Ang. 28 28
7+50S 100' OFFSET					CUT-IN 7+50S

76L298 307 10-51

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Do not extend notes this side of this line. 396 + 42.86 (3) +196

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		7+50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B&W	8:23	35.0 34.0 34.0	34.3	50 ✓	29.3 ✓	2605	2801
2	R		32.5 33.9	33.0	5.0	28.0 ✓	2437	2633
3	Y		32.0 30.9	32.6	5.0	27.6 ✓	2180 OFF END	2376 Break Water
4	B&W	8:27	30.0 30.0	30.3	5.0	25.3 ✓	1970	2166
5	R		28.0 27.5	28.7	5.0	23.7 ✓	1731	1927
6	Y		26.5 26.7	26.8	5.0	21.8 ✓	1383	1579
7	B&W	8:30	24.0 25.0	24.9	5.0	19.9 ✓	1230	1426
8	R		23.4 25.0	23.9	5.0	18.9 ✓	1107	1303
9	Y		22.0 23.5	23.0	5.0	18.0 ✓	1015	1211
10	B&W	8:32	21.2 22.0	22.0	5.0	17.0 ✓	930	1126
11	R		21.0 21.0	21.3	5.0	16.3 ✓	861	1057
12	Y		19.7 18.2	20.1	50	15.1 ✓	771	967
13	B&W	8:33	17.5 17.6	17.7	51 ✓	12.6 ✓	724	920
14	R		16.5 16.7	16.9	5.1	11.8 ✓	684	880
15	Y		15.0 14.7	15.6	5.1	10.5 ✓	645	841
16	B&W	8:36	13.8 13.1	14.1	5.1	9.0 ✓	620	816
17	R		11.9 12.5	12.3	5.1	7.2 ✓	580	776
18	Y		10.0 11.0	10.8	5.1	5.7 ✓	573	769
19	B&W	8:39	9.7 9.2	10.1	5.1	5.0 ✓	542	738
20	R		8.7	8.9	51 ✓	3.8 ✓	504	700

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd CEM Checked ____ Survey of Beach Erosion Studies
No. ____ Date 1/27/54 Date ____ Survey by EHB Notes ____ Date 11/24/53
Map No. ____ Indexed O. Johnson

F.B. 1506 Pg. 111

F.B. 1506 PG 112 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F.H.B. Notes 11/24/53 Notes Chkd. CEM Checked X-Sec.

Indexed A. C. Johnson Date Date 1/27/54 Date No.

76L298 307 10-51

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726 LOS ANGELES COUNTY

ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide.	Adj. Depth	Remarks
21	Y		8.1 7.8	7.9	51 ✓	2.8 ✓	SM 474 LA 670

76L298 307 4-50

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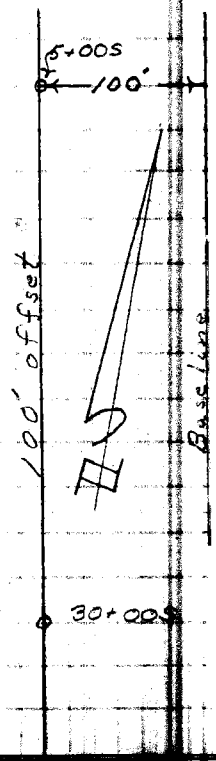
Do not extend notes this side of this line.

Range 5+00S

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
		1	B+W	9:26	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B+W	9:31	89°38'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B+W	9:34	90°00'	
		8	R		89°22'	
		9	Y		90°00'	
		10	B+W	9:37	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B+W	9:39	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B+W	9:41	90°00'	
		17	R		90°00'	
		18	Y			
		19	B+W			
		20	R			



Profile Notes Red. ____ Plotted ____ Job No. 84/12 Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Date 11-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1576 PG. 113

76L298 307 4-50

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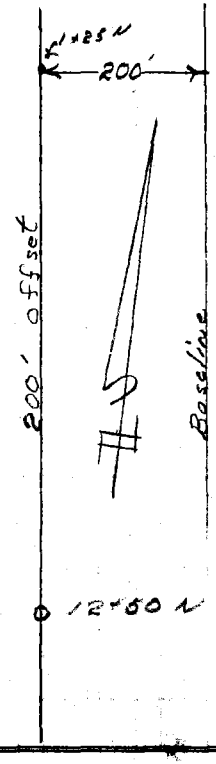
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range	1+25 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W	10:12	90°06'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B+W	10:15	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B+W	10:19	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B+W	10:22	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B+W	10:25	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B+W	10:27	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B+W	10:29	90°00'		
		20	R		90°00'		

1+25 N 200' W offset

12+50 200' W offset



F. B. 1506 Pg. 114

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

Survey of ____ Date ____ Date ____ No. ____

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

Indexed K. C. Johnson Date 11-24-53 Date ____ Date ____ No. ____

76L298 307 8-53

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Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 5412 Division No.____
No.____ Date____ Date____ Survey of BEARD & KOSTNER STREETS
X-Sec. Notes Chkd.____ Checked____ Survey by F.H.B. Notes J.M.U. Date 11-24-53
No.____ Date____ Date____ Map No.____ Drawn Johnson Date____

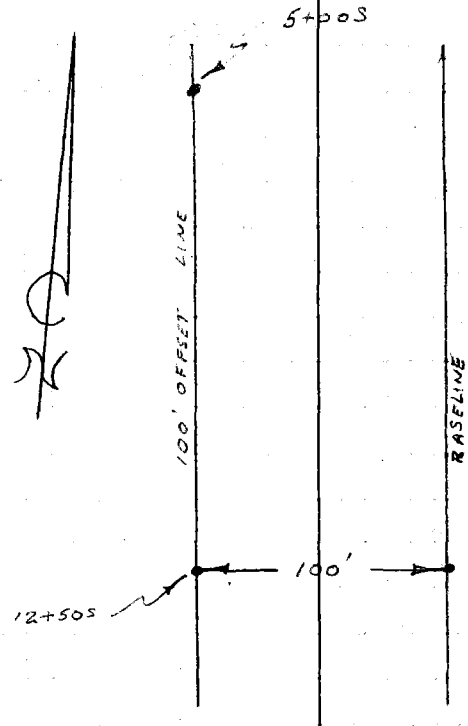
F.B. 1506 Pg. 115

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On	#	Color	Time	Hor. Ang.
	~~1~~	~~B&W~~	~~9:21~~	~~70° 58~~
	~~2~~	~~R~~		~~66° 21~~
	~~3~~	~~Y~~		~~67° 28~~
	1	B&W	9:27	68° 36
	2	R		65° 08
	3	Y		61° 00
	4	B&W	9:32	57° 23
	5	R		54° 21
	6	Y		52° 20
	7	B&W	9:35	50° 27
	8	R		49° 04
	9	Y		47° 28
	10	B&W	9:37	45° 01
	11	R		43° 32
	12	Y		41° 21
	13	B&W	9:39	39° 04
	14	R		36° 25
	15	Y		34° 57
	16	B&W	9:41	33° 11
	17	R		31° 41

12+505 100' OFFSET
5+005 100' OFFSET

CUT-IN 5+005

Remarks



F. B. 1506 PG. 116

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

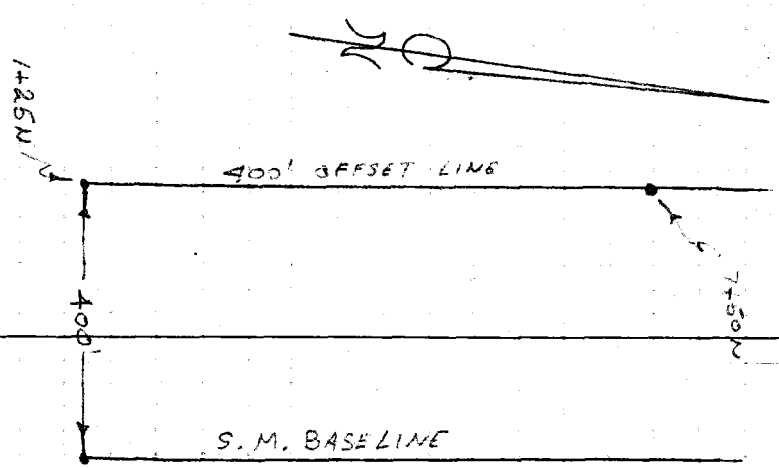
Survey by F.H.B. Notes J.M.U. Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. Johnson Date _____ Date _____ Date _____ No. _____

7+50N 400' OFFSET

1+25N 400' OFFSET

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight On	#	Color	Time	Hor. Ang.	Remarks
						1	B&W	10:13	73°15	
						2	R		72°29	
						3	Y		71°36	
						4	B&W	10:15	70°50	
						5	R		70°10	
						6	Y		69°12	
						7	B&W	10:20	67°48	
						8	R		67°05	
						9	Y		66°17	
						10	B&W	10:23	65°05	
						11	R		63°52	
						12	Y		62°24	
						13	B&W	10:25	61°13	
						14	R		60°02	
						15	Y		58°26	
						16	B&W	10:27	57°25	
						17	R		55°21	
						18	Y		53°6	
						19	B&W	10:30	51°17	
						20	R		49°18	



CUT-IN 1+25N

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761.298 307 8-53

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		5400-S-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	9:26	33.0 31.2 30.5	31.8	56 ✓	~~242~~ 26.2	2911 Off end Beach water	2220
2	R		29.7	30.0	5.6	244 ✓	1720	1929
3	Y		28.1 27.3	27.6	5.6	220 ✓	1453	1662
4	B+W	9:29	26.0 24.7	25.1	5.6	19.5 ✓	1271	1480
5	R		24.0 22.7	23.1	56	17.5 ✓	1146	1355
6	Y		22.2 21.3	21.6	57 ✓	15.9 ✓	1070	1279
7	B+W	9:34	21.2 20.1	20.5	5.7	14.8 ✓	1008	1217
8	R		20.3 19.4	19.8	5.7	141 ✓	965	1174
9	Y		19.2 18.2	18.5	5.7	128 ✓	914	1123
10	B+W	9:36	17.9 16.8	17.2	5.7	115 ✓	850	1059
11	R		18.7 16.5	16.9	5.7	112 ✓	817	1026
12	Y		16.2 15.3	15.6	5.7	9.9 ✓	760	969
13	B+W	9:39	15.8 14.0	14.6	5.7	8.9 ✓	710	919
14	R		13.2 12.2	12.5	5.7	6.8 ✓	654	863
15	Y		11.0 9.5	10.0	5.7	4.3 ✓	624	833
16	B+W	9:41	10.2 8.5	9.1	5.7	3.4 ✓	590	799
17	R		9.7 7.4	8.2	57 ✓	2.5 ✓	564	773
18	Y							
19	B+W							
20	R							

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 117

No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

X-Sec. Notes Chkd. CEM Checked ____ Survey by EHB Notes ____ Date 11/24/58

No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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+232 (405 H9)

Do not extend notes this side of this line. ~~402+68.73N~~

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		1+25 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:13	35.1 / 34.2	34.5	6.0 ✓	28.5 ✓	2480	2712
2	R		35.1 / 34.0	34.4	6.0	28.4 ✓	2380	2612
3	Y		34.6 / 33.5	33.9	6.0	279 ✓	2280	2512
4	B&W	10:15	34.6 / 33.0	33.5	6.0	275 ✓	2200	2432
5	R		34.0 / 33.0	33.3	6.0	273 ✓	2132	2364
6	Y		31.8 / 28.0	29.3	6.0	233 ✓	2045	2277
7	B&W	10:18	28.0 / 26.7	27.1	6.0	211 ✓	1931	2163
8	R		32.0 / 31.0	31.3	6.0	253 ✓	1880	2112
9	Y		31.5 / 30.9	31.1	6.0	251 ✓	1822	2054
10	B&W	10:23	30.0 / 29.5	29.7	6.0	237 ✓	1746	1978
11	R		30.0 / 28.0	28.7	6.0	227 ✓	1673	1905
12	Y		26.7 / 26.0	26.2	6.0	202 ✓	1598	1830
13	B&W	10:25	27.0 / 26.0	26.3	6.0	203 ✓	1540	1772
14	R		26.0 / 25.0	25.3	6.0	193 ✓	1486	1718
15	Y		25.0 / 24.0	24.4	6.0	184 ✓	1419	1651
16	B&W	10:27	25.7 / 23.5	24.2	6.0	182 ✓	1378	1610
17	R		23.1 / 22.0	22.4	6.0	164 ✓	1304	1536
18	Y		21.7 / 20.7	20.9	6.0	149 ✓	1270	1502
19	B&W	10:29	20.0 / 19.5	19.7	6.0	137 ✓	1180	1412
20	R		19.1 / 19.9	18.3	6.0 ✓	123 ✓	1126	1358

F.B. 1506 PG. 118 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F.H.B. Notes 11/24/53 Notes Chkd. CEM Checked No.
Indexed C. Johnson Date Date 1/27/54 Date

76L298 307 4-50

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Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Surveyed by Notes Date
No. Date Date Map No. Date

F. B. 7506 Pg. 119

STATION	B. S.	H. I.	F. S.	ELEV.	Range 1+25N	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	B+W	10:31	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
200 W offset	25	B+W	10:32	90°00'		
	26	R		89°41'		
	27	Y		90°00'		
200 W offset	28	B+W	10:34	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
	31	B+W	10:37	90°00'		
1+25N	32	R		90°00'		
12+50						

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	Range	2+50 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W	10:46	90°00'		
		2	R				
		3	Y				
400' W offset	400' W offset	4	B+W	10:48			
		5	R				
		6	Y				
		7	B+W	10:53			
		8	R				
		9	Y				
		10	B+W	10:55			
		11	R				
		12	Y				
		13	B+W	10:57			
		14	R				
		15	Y				
2+50 N	2+50	16	B+W	10:59			
		17	R				
		18	Y				
		19	B+W	11:02			
		20	R				

F. B. 1506 PG. 120

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

Survey of ____ Date ____ Date ____ No. ____

Survey by F. H. [illegible] Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed R. A. Johnson Date 11-24-53 Date ____ Date ____ No. ____

76L298 307 10-51

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Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1506 Pg. 121
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chkd____ Checked____ Survey by F. H. BLANCHARD U.S.C. Date 11-24-53
No.____ Date____ Date____ Map No.____ Checked____ Date____

CUT-IN 1+25 N

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
		21	Y		47°00	
		22	B-S-W	10:31	44°18	
		23	R		42°01	
		24	Y		39°48	
		25	B-S-W	10:33	38°36	
		26	R		35°54	
		27	Y		34°30	
		28	B-S-W	10:35	32°25	
		29	R		30°32	
		30	Y		28°26	
		31	B-S-W	10:37	27°08	
		32	R		25°37	

7+50 N 100' OFFSET

1+25 N 100' OFFSET

B. 1506 Pg. 122 | Job No. 8412 Division No. | Profile
Survey of BEACH EROSION STUDIES | Notes Red | Plotted | No. | X-Sec.
Survey by F.H. BLANCHARD Date | Date | Date
Indexed C. Johnson Date | Notes Chkd | Checked
Date | Date | No.

76L298 307 10-51

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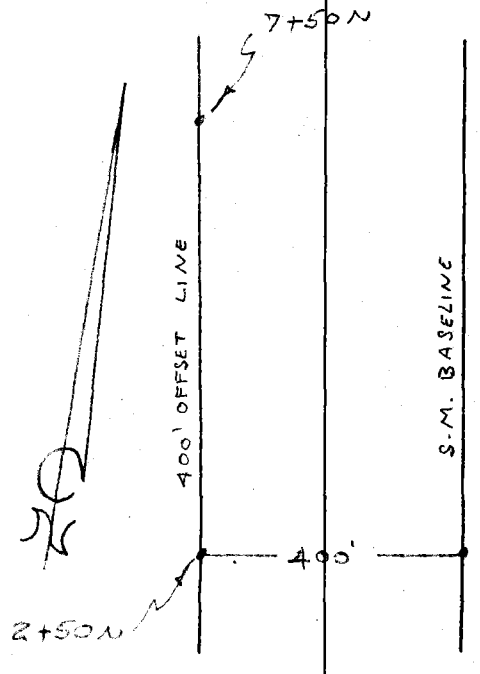
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On	#	Color	Time	Hor. Ang.
7+50 N 400' OFFSET / 2+50 N 400' OFFSET	1	B&W	10:46	15° 30'
	2	R		74° 58'
	3	Y		
	4	B&W	10 49	71 12
	5	R		73 22
	6	Y		73 28
	7	B&W	10 54	72 25
	8	R		71 44
	9	Y		70 56
	10	B&W	10 55	70 35
	11	R		70 30
	12	Y		69 43
	13	B&W	10 57	68 59
	14	R		68 18
	15	Y		67 38
	16	B&W	11 00	66 50
	17	R		65 24
	18	Y		63 47
	19	B&W	11 02	61 26
	20	R		60 45

CUT-IN 2+50 N

Remarks



76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	BOAT		1+2 [illegible]
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
[illegible]	Y		18.2 / 16.8	17.3	60 ✓	113 ✓	1070	1302
[illegible]	[illegible]	10:31	[illegible] / 16.8	17.0	6.0	110 ✓	1010	1242
[illegible]	R		16.0 / 15.5	15.5?	6.0	95? ✓	964	1196
[illegible]	Y		16.0 / 13.9	14.6	6.0	86 ✓	920	1152
[illegible]	[illegible]	10:32	15.0 / 13.0	13.7	6.0	77 ✓	900	1132
[illegible]	R		15.0 / 13.2	13.8	6.0	78 ✓	864	1096
[illegible]	Y		14.5 / 11.5	12.6	6.0	66 ✓	835	1067
[illegible]	[illegible]	10:34	10.0 / 11.0	10.3?	6.0	4.3? ✓	798	1030
[illegible]	R		10.2 / 8.5	9.1	6.0	3.1 ✓	768	1000
[illegible]	Y		10.0 / 7.0	8.0	6.0	2.0 ✓	738	970
[illegible]	[illegible]	10:37	8.9 / 7.0	7.6	6.0	~~1.7~~ 1.6	721	953
[illegible]	R		9.2 / 7.0	7.7	60 ✓	1.7 ✓	700	932

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 123

No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

X-Sec. Notes Chkd. CEM Checked ____ Survey by F.H.B Notes ____ Date 11/24/53

No. ____ Date 1/27/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

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+243

Do not extend notes this side of this line. 406 + 44.04 N

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		2+50 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM.	LA
1	B+W	10:46	35.0 33.0	33.7	6.0 ✓	27.7 ✓	2334	2577
2	R		36.0 33.3	34.2	6.0	28.2 ✓	2261	2504
3	Y		34.3 33.1	33.5	6.0	27.5 ✓	Void	
4	B+W	10:48	35.0 33.6	34.1	6.0	28.1 ✓	2150	2393
5	R		33.2 30.9	31.7	6.0	25.7 ✓	2073	2316
6	Y		24.7 23.0	23.6	6.0	17.6 ✓	2950 W	2293 Edge Breakwater
7	B+W	10:53	24.8 23.1	23.7	6.0	17.7 ✓	1948 E	2191
8	R		29.0 27.7	28.1	6.0	221 ✓	1918	2161
9	Y		33.9 31.8	32.5	6.0	265 ✓	1849	2092
10	B+W	10:55	31.6 31.0	31.2	6.0	252 ✓	1832	2075
11	R		31.0 30.3	30.5	6.0	245 ✓	1812	2055
12	Y		31.8 31.0	31.3	6.0	253 ✓	1755	1998
13	B+W	10:58	30.5 28.9	29.4	6.0	~~231~~ 23.4	1701	1944
14	R		29.0 28.7	28.8?	6.0	~~222~~ 22.8?	1658	1901
15	Y		27.3 27.0	27.1	6.0	211 ✓	1588	1831
16	B+W	10:59	26.8 25.9	26.2	6.0	202 ✓	1541	1784
17	R		26.0 25.0	25.3	6.0	193 ✓	1492	1735
18	Y		25.1 24.3	24.6	6.0	186 ✓	1421	1664
19	B+W	11:02	23.8 23.0	23.3	6.0	173 ✓	1329	1572
20	R		22.8 21.7	21.9	6.0 ✓	159 ✓	1294	1537

F.B. 1506 PG. 124

Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by E.H.B. Notes 11/24/53 Notes Chkd. CEM Checked X-Sec.

Indexed C. Johnson Date Date 1/27/54 Date No.

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	2+50 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	B+W	11:05	" "		
	23	R		" "		
	24	Y		" "		
	25	B+W	11:06	" "		
	26	R		89°45'		
	27	Y		90°00'		
	28	B+W	11:08	" "		
	29	R		" "		
	30	Y		" "		
	31	B+W	11:10	" "		
	32	R		" "		
	33	Y		" "		
	34	B+W	11:11	" "		
	35	R				

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

X-Sec. No. ____ Date ____ Date ____ Survey of ____

Notes Chkd ____ Checked ____ Survey by E. H. BLANCHARD ____ Date ____

Date 11-24-53 Date ____ Map No. ____ Date ____

F.B. 1506 PG. 125

F.B. 1506 PG. 126

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

Survey of _____ Date _____ Date _____ No. _____

Survey by E. H. [illegible] Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst.Sight At	On	#	Color	Time	Hor.Ang.	Remarks

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN	2+50
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
7+50-N 400' OFFSET	2+50 N 400' OFFSET	21	Y		58 49		
		22	B&W	11 05	56 15		
		23	R		54 31		
		24	Y		51 51		
		25	B&W	11 07	49 61		
		26	R		45 20		
		27	Y		44 42		
		28	B&W	11 09	42 29		
		29	R		41 48		
		30	Y		40 57		
		31	B&W	11 10	40 19		
		32	R		39 22		
		33	Y		38 04		
		34	B&W	11 12	34 03		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 122

No. ____ Date ____ Date ____ Survey of BEACH & ROSCOE STUDIES

X-Sec. Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD Notes J.M.U. Date 11-24-53

No. ____ Date ____ Date ____ Map No. ____ Inspected C. Johnson Date ____

76L298 307 10-51

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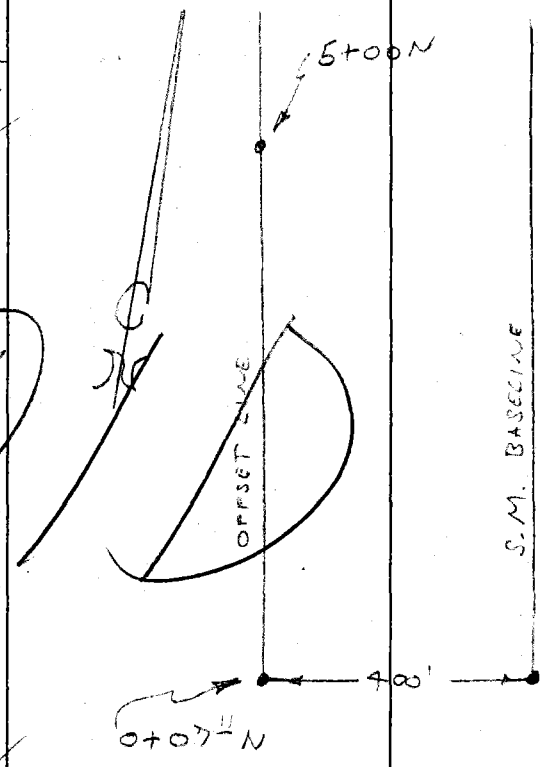
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 5+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
0+07.11 N 400' OFFSET	5+00N 400' OFFSET	1	B&W	11 27	74° 36	
		2	R		74 22	
		3	Y		73 53	
		4	B&W	11 30	73 18	
		5	R		73 19	
		6	Y		72 [illegible]	
		7	B&W	11 36	72 01	
		8	R		71 [illegible]	
		9	Y		70 57	
		10	B&W	11 38	70 12	
		11	R		69 19	
		12	Y		68 32	
		13	B&W	11 40	67 07	
		14	R		66 [illegible]	
		15	Y		64 47	
		16	B&W	11 42	63 18	
		17	R		62 01	
		18	Y		60 8	
		19	B&W	11 43	59 31	
		20	R		57 43	



F.B. 1506 PG. 128 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by F.H. [illegible] Notes U.M.U. Checked
Indexed C. Johnson Date Date No.

76L298 307 10-51

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Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1576 Pg. 129
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. CEM Checked____ Survey by EHB Notes C. Johnson Date 11/24/53
No.____ Date 11/27/54 Date____ Map No.____ Indexed____ Date____

BOAT 2450 N

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	SM	Remarks	LA
21	Y			21.2 20.0	20.4	60 ✓	14.4 ✓	1227		1470
22	B+W	11.05		19.1 18.1	18.8	6.0	12.8 ✓	1150		1393
23	R			18.5 19.0	18.2	6.0	12.2 ✓	1101		1344
24	Y			17.9	18.3	6.0	12.3 ✓	1038		1281
25	B+W	11.06		18.7 17.8	18.1	6.0	12.1 ✓	976		1219
26	R			15.2 14.0	14.4	6.0	8.4 ✓	905		1148
27				15.2 13.0	13.7	6.0	7.7 ✓	895		1138
28	B+W	11.08		14.0 12.7 12.8	13.1	6.0	7.1 ✓	858		1101
29				11.9 12.5	12.2	6.0	6.2 ✓	847		1090
30	Y			11.2 12.9	11.7	6.0	5.7 ✓	834		1077
31	B+W	11.10		11.0 10.8	11.6	6.0	5.6 ✓	825		1068
32	R			10.9 9.9	10.3	6.0	4.3 ✓	810		1053
33	Y			8.8 8.2	9.2	6.0	3.2 ✓	792		1035
34	B+W	11.12		6.5	7.1	60 ✓	1.1 ✓	738		981

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STATION		B. S.	H. I.	F. S.	ELEV.			5+00 N
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth		Remarks
1	B&W	11:27	36.7					
			35.0					
			34.0					
2	R		32.5					
			34.5					
3	Y		32.5					
4	B&W	11:29	30.0					
			28.5					
5	R		26.0					
			25.1					
6	Y		19.5					
			18.8					
7	B&W	11:36	24.5					
			23.0					
8	R		31.7					
			30.5					
9	Y		32.3					
			31.1					
10	B&W	11:38	31.3					
			30.9					
11	R		30.2					
			29.6					
12	Y		29.0					
			28.2					
13	B&W	11:39	28.1					
			26.9					
14	R		26.6					
			25.7					
15	Y		25.0					
			23.9					
16	B&W	11:41	25.0					
			24.0					
17	R		25.2					
			23.7					
18	Y		24.8					
			24.0					
19	B&W	11:43	24.4					
			23.8					
20	R		24.0					
			23.4					

OID

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd Date

Job No. 8412 Division No. Notes Date

Survey of Beach Erosion Studies

Survey by F.H.B. Notes

Indexed K. C. Johnson Date

F.B. 1506 PG. 130

76L298 307 10-51

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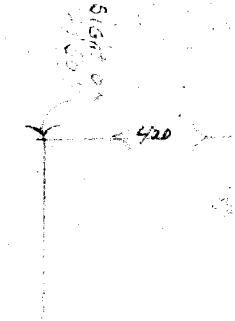
STATION		B. S.	H. I.	F. S.	ELEV.	Range	5+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B&W	7:15	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
			B&W	7:17	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	7:20	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	7:25	90° 00'		
			R		90° 00'		
		12	Y		90° 00'		
		13	B&W	7:28	90° 00'		
		14	Y		90° 00'		
		15	Y		90° 00'		
		16	B&W	7:33	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B&W	7:35	90° 00'		
		20	R		90° 00'		

5+00 N

400' W. OFF

400' W. OFF



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 131

X-Sec. No. ____ Date ____ Date ____ Survey of Bed ____ Study

Notes Chkd ____ Checked ____ Survey by E. H. BLANCHARD & Co. Date 12-11-53

Date ____ Date ____ Map No. ____ Mexico Tobacco Date ____

F.B. 1506 PG. 132 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach [illegible] Study Date 12-1-53 Date _____ No. _____

Survey by _____ Notes A. S. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L29B 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Remarks	
5+00 N	21	Y		90° 0'		
400' W. OF	22	B&W	7:28	90° 0'		
12-1-50 N	23	R		90° 0'		
400' W. OF	24	Y		90° 0'		
	25	B&W	7:41	90° 0'		
	26	R		90° 0'		
	27	Y		90° 0'		
	28	B&W	7:43	90° 0'		
	29	R		90° 0'		
	30	Y		90° 0'		
	31	B&W	7:45	90° 0'		
	32	R		90° 0'		
	33	Y		90° 0'		
	34	B&W	7:48	90° 0'		
	35	R		90° 0'		
	36	Y		90° 0'		
	37	B&W	7:50	90° 0'		
	38	R		90° 0'		
	39	Y		90° 0'		
	40	B&W	7:52	90° 0'		

76L298 307 8-53

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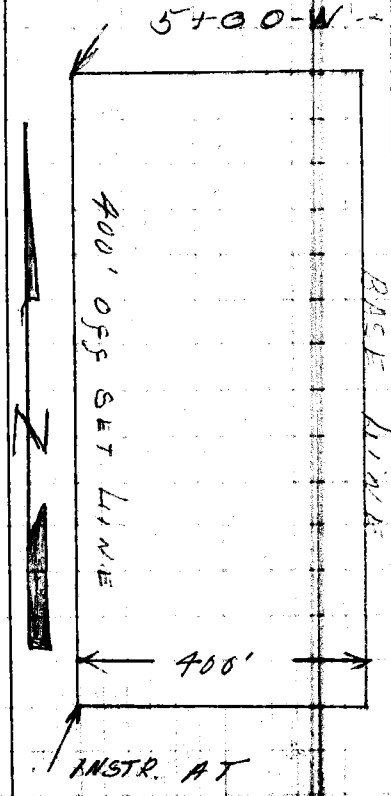
STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN	5+00 -N-
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
0+07.11 NORTH 5+00 400' WEST	1	B-W	7:13	78°10'		
	2	R		77°39'		
	3			76°55'		
	4	B-W	7:16	76°20'		
	5	R		75°23'		
	6	Y		74°55'		
	7	B-W	7:19	74°32'		
	8	R		74°[illegible]		
	9			74°33'		
	10	B-W	7:23	74°04'		
	11	R		73°47'		
	12	Y		73°36'		
	13	B-W	7:26	73°28'		
	14	R		73°23'		
	15	Y	[illegible]	72°02'		
	16	B-W	7:33	70°53'		
	17	R		70°37'		
	18	Y		70°02'		
	19	B-W	7:35	69°22'		
	20	R		68°36'		



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD Date 12-1-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1506 Pg. 133

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut - IN	5+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	V		6[illegible]34		
	22	B+W	7:31	[illegible]		
	23	N		[illegible]		
	24	V		[illegible]		
	25	B+W	7:40	6[illegible]30		
	26	N		6[illegible]36		
	27	V		6[illegible]32		
	28	B+W	7:43	5[illegible]34		
	29	N		5[illegible]45		
	30	V		5[illegible]25		
	31	B+W	7:45	4[illegible]46		
	32	N		4[illegible]51		
	33	V		4[illegible]54		
	34	B+W	7:47	4[illegible]33		
	35	N		43[illegible]37		
	36	V		4[illegible]		
	37	B+W	7:50	4[illegible]24		
	38	N		[illegible]		
	39	V		4[illegible]3		
	40	B+W	7:52	39[illegible]08		

F. B. [illegible] Pg. 134 Job No. [illegible] Division No. [illegible] Notes Red. [illegible] Plotted [illegible] Profile

Survey of [illegible] Date [illegible] Date [illegible] No. [illegible]

Survey by F. H. BLANCHARD Notes [illegible] Notes Chkd. [illegible] Checked [illegible] X-Sec.

Indexed E. C. Johnson Date [illegible] Date [illegible] Date [illegible] No. [illegible]

76L298 307 4-50

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Profile Notes Red. Plotted. Job No. 8442 Division No.
No. Date Date Date Date
Notes Checked Checked Survey of Beach Erosion Study
Date 1/27/54 Date Map No. Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.	Boat 5+00 N			
# Color	Time	Depth	Bottom Tide	Adj. Depth		SM	MA	Remarks
1 B+W	7:11	37.8 3.5.2	35.8	53 ✓	30.5 ✓	2749	3134	
2 R		35.0 33.0	33.7	5.3	28.4 ✓	2647	3032	
3 Y		33.0 34.0	34.3	5.3	29.0 ✓	2520	2905	
4 B+W	7:17	34.0 33.0	33.7	5.3	28.4 ✓	2424	2809	
5 R		33.0 33.1	33.7	5.3	28.4 ✓	2288	2673	
6 Y		34.0 34.4	34.9	5.3	29.6 ✓	2220	2605	
7 B+W	7:20	33.0 33.0	33.7	5.3	28.4 ✓	2180	2565	
8 R		33.7 32.5	32.9	5.2 ✓	27.7 ✓	2175	2560	
9 Y		35.7 33.0	33.9	5.2	28.7 ✓	2182	2567	
10 B+W	7:25	33.1 32.3	32.9	5.2	27.7 ✓	2123	2508	
11 R		32.1 31.2	31.5	5.2	26.3 ✓	2091	2476	
12 Y		30.0 28.8	29.2	5.2	24.0 ✓	2072	2457	
13 B+W	7:27	30.1 28.3	28.9	5.2	23.7 ✓	2059	2444	
14 R		25.9 24.0	24.6	5.2	19.4 ✓	2050	2435	Sea edge
15 Y		25.1 24.0	24.4	5.1 ✓	19.3 ✓	1920	2305	shore edge
16 B+W	7:33	21.2 20.5	30.7	5.1	~~15.6~~ 25.6	1820	2205	
17 R		31.1 30.1	30.4	5.1	~~15.3~~ 25.3	1800	2185	
18 Y		30.1 29.6	29.8	5.1	24.7 ✓	1757	2142	
19 B+W	7:35	29.8 29.7	29.1	5.1	24.0 ✓	1708	2093	
20 R		28.0 27.4	27.6	5.1 ✓	22.5 ✓	1657	2042	

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		5+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		27.4 26.5	26.8	51 ✓	21.7 ✓	1591	1976
22	B+W	7:38	26.3 25.6	25.8	51	20.7 ✓	1539	1924
23	R		25.2 24.9	25.0	50 ✓	20.0 ✓	1494	1879
24	Y		24.9 23.5	24.0	5.0	19.0 ✓	1454	1839
25	B+W	7:40	24.5 23.5	23.8	5.0	18.8 ✓	1410	1795
26	R		24.0 23.0	23.3	5.0	18.3 ✓	1350	1735
27	Y		23.8 23.0	23.3	5.0	18.3 ✓	1271	1656
28	B+W	7:43	23.1 22.2	22.5	5.0	175 ✓	1145	1530
29	R		23.1 22.0	22.4	5.0	174 ✓	1047	1432
30	Y		22.8 22.0	22.3	50	173 ✓	1010	1395
31	B+W	7:45	22.0 21.1	21.4	49 ✓	165 ✓	981	1366
32	R		21.3 20.2	20.6	49	157 ✓	945	1330
33	Y		19.5 18.2	18.6	49	137 ✓	910	1295
34	B+W	7:48	17.8 16.7	17.1	4.9	122 ✓	885	1270
35	R		15.1 14.1	14.4	4.9	95 ✓	870	1255
36	Y		14.0 12.6	13.1	4.9	82 ✓	851	1236
37	B+W	7:50	12.8 11.1	11.7	49	~~78~~ 6.8	845	1230
38	R		11.0 9.6	10.1	48 ✓	53 ✓	830	1215
39	Y		10.9 8.0	9.0	48	42 ✓	819	1204
40	B+W	7:52	9.1 6.9	7.3	48 ✓	25 ✓	801	1186

F. B. 1506 Pg. 136
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by F.H.B. Notes Chkd. CEM Checked
Indexed C. Johnson Date Date 1/27/54 Date No.

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	7+50 (7+70) N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
7+50 (7+70 N) 400' W. OFF	1	B+W	8:21	90° 05'	MOORED BOAT ON LINE, AT 7+50 N.	
	2	R		90° 00'	MOVED AHEAD 20' TO (7+70) N	
	3	Y		90° 00'		
400' W. OFF	4	B+W	8:25	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	8:28	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	8:30	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
12+50 N	13	B+W	8:37	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	8:39	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B+W	8:41	90° 00'		
	20	R		90° 00'		

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 137

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDY

Survey by E. H. BLANCHARD, A.S. Date 12-1-53

Map No. ____ Indexed C. Johnson

76L298 307 10-51

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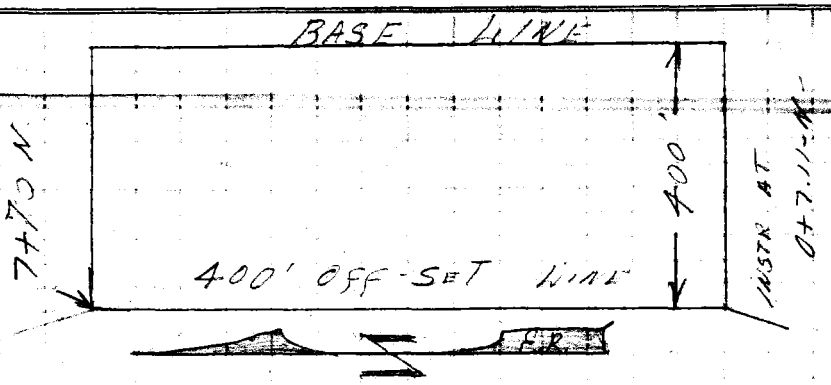
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	7+50 (7+70N)
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90° 00'		
	22	B+W	8:49	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B+W	8:52	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	B+W	8:55	90° 00'		
	29	R		90° 00'		
	30	Y		90° 00'		
7+50 (7+70N) 400' W. OFF						
12+50 N						

F.B. 1506 Pg. 138 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 12-1-53 Date No. X-Sec.
Survey by F. H. BLANCHARD Notes A.S. Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1506	Pg. 139
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by E. H. BLANCHARD	Notes ER	Date 12-1-53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in	Remarks
Inst. Sight At / On	#	Color	Time	Hor. Ang.		
7+70 - 400' WEST	1	Bkw	8:20	72°41'		
	2	R		71°25'		
	3	Y		69°44'		
	4	Bkw	8:24	68°18'		
	5	R		66°54'		
	6	Y		66°31'		
	7	Bkw	8:26	66°13'		
	8	R		65°41'		
	9	Y		65°30'		
	10	Bkw	8:29	65°11'		
	11	R		63°29'		
	12	Y		62°51'		
	13	Bkw	8:36	62°03'		
	14	R		61°17'		
	15	Y		60°41'		
	16	Bkw	8:38	60°10'		
	17	R		58°39'		
	18	Y		57°57'		
	19	Bkw	8:41	56°38'		
	20	R		54°54'		

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STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN -	7+70 - N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		53° 36'		
		22	B&W	8:49	51° 11'		
		23	R		48° 15'		
		24	Y		43° 45'		
		25	B&W	8:52	38° 45'		
		26	R		35° 24'		
		27	Y		32° 20'		
		28	B&W	8:54	30° 45'		
		29	R		29° 53'		
		30	Y		28° 44'		
0+7.11 NORTH	7+50 400' NORTH						

F. B. 1506 PG. 140

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

Survey of ____ Date ____ Date ____ No. ____

Survey by F. H. BLANCHARD Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed K. C. Johnson Date ____ Date ____ Date ____ No. ____

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+393

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Profile Notes Red. Plotted Job No. 2412 Division No.
No. Date Surveyed by Beach Expressway Studies
No. Date Checked Surveyed by KMB Party Chief
No. Date Map No. Indexed

F. B. 1526 Pg. 7 & 8

STATION		B. S.	H. I. Rod Depth	F. S. Bottom	ELEV. Tide		Adj. Depth	Boat 7+70N Remarks SM	LA
#	Color	Time							
1	B+W	8:21	36.0 / 37.0 / 38.6	34.7	4.3 ✓		30.4 ✓	2882	3275
2	R		33.5 / 34.8	34.6	4.3		30.3 ✓	2666	3059
3	Y		32.0 / 34.0	32.9	4.3		28.6 ✓	2465	2858
4	B+W	8:25	32.0 / 34.5	32.7	4.3		28.4 ✓	2317	2710
5	R		31.8 / 32.5	32.7	4.3		28.4 ✓	2189	2582
6	Y		30.8 / 32.9	31.0	4.3		26.7 ✓	2157	2550
7	B+W	8:27	30.3 / 30.9	31.0	4.2 ✓		26.8 ✓	2130	2523
8	R		28.4 / 29.3	29.2	4.2		25.0 ✓	2088	2481
9	Y		27.8 / 28.6	28.3	4.2		24.1 ✓	2072	2465
10	B+W	8:29	24.9 / 22.8	25.3?	4.2		21.1? ✓	2048	2441 Sea edge
11	R		21.9 / 30.2	22.2	4.1 ✓		18.1 ✓	1928	2321 Shore edge
12	Y		29.5 / 30.3	29.7	4.1		25.6 ✓	1888	2281
13	B+W	8:36	29.7 / 30.0	29.9	4.1		25.8 ✓	1837	2230
14	R		28.9 / 29.1	29.3	4.1		25.2 ✓	1790	2183
15	Y		28.0 / 29.0	28.4	4.0 ✓		24.4 ✓	1758	2151
16	B+W	8:39	28.0 / 27.4	28.3	4.0		24.3 ✓	1730	2123
17	R		26.0 / 27.0	26.5	4.0		22.5 ✓	1652	2045
18	Y		26.1 / 25.7	26.4	4.0		22.4 ✓	1618	2011
19	B+W	8:41	24.9 / 24.4	25.2	4.0 ✓		21.2 ✓	1559	1952
20	R		24.4 / 24.0	24.1	3.9 ✓		20.2 ✓	1485	1878

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		7+70 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		24.0 23.2	23.5	3.9 ✓	19.6 ✓	1434	1827
22	B+W	8:49	22.7 21.5	21.9	3.8 ✓	18.1 ✓	1345	1738
23	R		22.2 21.0	21.4	3.8	17.6 ✓	1255	1648
24	Y		22.0 21.2	21.5	3.8	17.7 ✓	1130	1523
25	B+W	8:52	21.2 20.5	20.7	3.8	16.9 ✓	1011	1404
26	R		21.8 21.0	21.3	3.8	17.5 ✓	935	1328
27	Y		19.0 18.6	18.7	3.7 ✓	15.0 ✓	882	1275
28	B+W	8:55	16.2 14.5	15.1	3.7	11.4 ✓	855	1248
29	R		11.0 10.0	10.3	3.7	6.6 ✓	838	1231
30	Y		7.0 6.1	6.4	3.7 ✓	2.7 ✓	821	1214

F. B. 1306 Pg. 142
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes Dec. 1, 1953 Notes Chkd. CEM Checked X-Sec.
Indexed Date Date 1/28/54 Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	10+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
10+00 N	400' W. OFF	1	B×W	9:25	89° 42'		
		2	R		90° 00'		
		3	Y		89° 52'		
		4	B×W	9:29	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B×W	9:32	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B×W	9:34	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B×W	9:39	90° 00'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B×W	9:41	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B×W	9.44	90° 00'		
		20	R		90° 00'		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 143

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY

Notes Chkd. ____ Checked ____ Survey by E.H. BLANCHARD R.S. Date 12-1-53

Date ____ Date ____ Map No. ____ Indexed C. Johnson

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F.B. 506 Pg 44 | Job No. 8412 Division No. | Profile No. | X-Sec. No.
Survey of BEACH EROSION Study | Plotted | Date
Survey by L. C. Johnson | Notes Red | Date 12-1-53
Indexed | Notes Chkd | Checked
Notes B.S. | Date | Date
Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	10+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90° 00'		
	22	B+W	9:46	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B+W	9:48	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	B+W	9:50	90° 00'		
	29	R		90° 00'		
	30	Y		90° 00'		
	31	B+W	9:52	90° 00'		
	32	R		90° 00'		
	33	Y		90° 00'		
	34	B+W	9:56	90° 00'		

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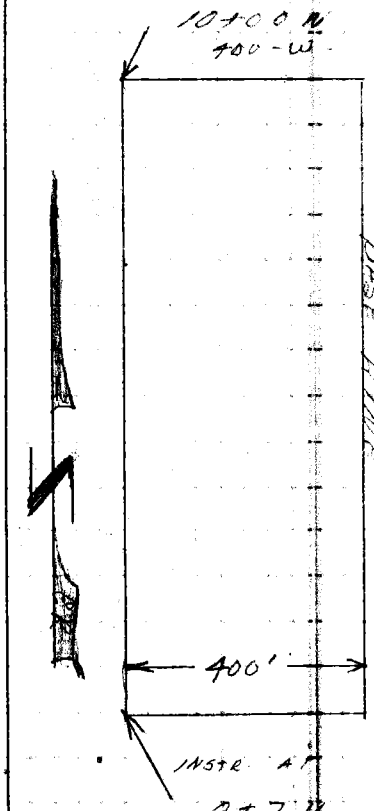
STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	10+00 N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
0+7.11 NORTH / 10+00 400' WEST	1	B+W	9:25	66°16'		
	2	R		64°36'		
	3	V		63°41'		
	4	B+W	9:28	62°17'		
	5	R		61°31'		
	6	V		60°48'		
	7	B+W	9:31	60°10'		
	8	R		59°41'		
	9	V		59°21'		
	10	B+W	9:33	59°02'		
	11	R		56°52'		
	12	V		56°37'		
	13	B+W	9:38	55°43'		
	14	R		54°40'		
	15	V		53°57'		
	16	B+W	9:40	53°13'		
	17	R		52°24'		
	18	V		50°39'		
	19	B+W	9:43	48°50'		
	20	R		47°22'		



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by ____ Notes ER Date 12-1-53
Date ____ Date ____ Map No. ____ Indexed C. John Date ____

F. B. 1506 Pg. 145

F. B. 1506 Pg. 146 Job No. 8412 Division No. ______ Notes Red. ______ Plotted ______ Profile

Survey of Beach Erossion Studies Date ______ Date ______ No. ______

Survey by F. H. BLANCHARD Notes Robbins Notes Chkd. ______ Checked ______ X-Sec.

Indexed A. C. Johnson Date 12-1-53 Date ______ Date ______ No. ______

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STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN -	10+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
07 7th NORTH	10+00 400' WEST	21	V		45°34'		
		22	B&W	9:45	43°47'		
		23	R		41°16'		
		24	Y		39°03'		
		25	B&W	9:48	36°12'		
		26	R		34°56'		
		27	Y		33°45'		
		28	B&W	9:50	32°13'		
		29	R		31°31'		
		30	Y		27° [illegible]		
		31	B&W	9:52	27°33'		
		32	R		26°24'		
		33	Y		2[illegible]°5[illegible]'		
		34	B&W	9:54	24°38'		
		35	R		23°46'		
		36	Y		22° [illegible]		
		37	B&W	9:56	21°15'		

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Profile Notes Red. Plotted Job No. 8W2 Division No.
No. Date Surv. Party Beach Leadsman Steel
No. Date Checked Boat Notes Chkd. CEM Date 1/28/54 Map No. Tel. Johnson Date

STATION	B. S.	H. I. Heavy	F. S.	ELEV.	Boat 10+00 W		
# Color	Time	Depth	Bottom Tide	Adj. Depth		SM	LA Remarks
1 B+W	9:25	33.4 32.5	32.8	30	298 ✓	2658	3058
2 R		34.7 32.0	32.9?	3.0	299? ✓	2487	2887
3 Y		32.7 31.0	31.6	3.0	286 ✓	2402	2802
4 B+W	9:29	32.1 30.8	31.2	3.0	282 ✓	2290	2690
5 R		31.9 30.8	31.2	30	282 ✓	2230	2630
6 Y		32.7 30.5	31.2	29	283 ✓	2175	2575
7 B+W	9:31	31.1 30.0	30.4	2.9	275 ✓	2130	2530
8 R		30.7 29.0	29.6	2.9	267 ✓	2098	2498
9 Y		28.5 27.0	27.5	2.9	246 ✓	2072	2472
10 B+W	9:33	25.0 21.0	22.3	29	194 ✓	2055	Sea 2455 edge
11 R		20.5 19.1	19.6	28	168 ✓	1920	Shore 2320 edge
12 Y		26.1 25.3	25.6	2.8	~~22.7~~ 22.8	1907	2307
13 B+W	9:38	28.9 28.2	28.4	2.8	256 ✓	1854	2254
14 R		29.2 27.8	27.9	2.8	251 ✓	1800	2200
15 Y		27.7 27.0	27.2	28	244 ✓	1762	2162
16 B+W	9:40	27.9 26.1	26.7	27	240 ✓	1729	2129
17 R		26.7 26.0	26.2	2.7	235 ✓	1689	2089
18 Y		26.0 25.4	25.6	2.7	229 ✓	1611	2011
19 B+W	9:43	24.2 23.0	23.4	2.7	207 ✓	1537	1937
20 R		23.3 22.0	22.4	27	197 ✓	1478	1878

F. B. 1506 Pg. 147

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		10+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		22.8 22.0	22.3	27	19.6 ✓	1411	1811
22	B+W	9:45	21.5 20.9	21.1	26	18.5 ✓	1350	1750
23	R		20.7 19.9	20.2	2.6	17.6 ✓	1271	1671
24	Y		20.6 19.9	20.1	2.6	17.5 ✓	1211	1611
25	B+W	9:48	18.8 18.0	18.3	2.6	15.7 ✓	1126	1526
26	R		18.0 16.9	17.3	2.6	14.7 ✓	1093	1493
27	Y		17.8 16.9	17.2	2.6	146 ✓	1065	1465
28	B+W	9:50	17.7 16.0	16.6	2.6	140 ✓	1026	1426
29	R		17.1 16.0	16.4	25 ✓	139 ✓	998	1398
30	Y		16.5 15.3	15.7	2.5	132 ✓	954	1354
31	B+W	9:52	15.7 15.0	15.2	2.5	127 ✓	918	1318
32	R		14.8 13.7	14.1	2.5	116 ✓	893	1293
33	Y		11.5 10.1	10.6	2.5	81 ✓	860	1260
34	B+W	9:54	11.7 10.0	10.6	2.5	81 ✓	855	1255
35	R		10.0 8.5	9.0	2.5	65 ✓	837	1237
36	Y		8.2 7.0	7.4	2.5	49 ✓	807	1207
37	B+W	9:56	7.2 5.0	5.7	25 ✓	32 ✓	786	1186
38	R							
39	Y							
40	B+W							

F. B. 1506 Pg. 148
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes 12/1/53 Notes Chkd. CEM Checked X-Sec.
Indexed C. Johnson Date Date 1/28/54 Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	12+50 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W	10:09	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B+W	10:11	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B+W	10:19	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B+W	10:21	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B+W	10:24	90° 00'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B+W		90° 11'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B+W	10:29	90° 00'		
		20	R		89° 45'		

12+50 N. 400' W. OFF

5+00 N 400' W. OFF

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 149

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION Study

Notes Chkd ____ Checked ____ Survey by E.H. BLANCHARD A.S.C. Date 12-1-53

No. ____ Date ____ Date ____ Map No. ____ Issued C. Johnson Date ____

F.B. 1506 PG 150 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION Study Date 12-1-53 Date No.

Survey by [illegible] Notes P.S. Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

76L298 307 10-51

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	RANGE 12+50 N
12+50 N 400' W. OFF	21	Y		90° 00'	
5+00 N 400 W. OFF	22	B+W	10:30	90° 00'	
	23	R		90° 00'	
	24	Y		90° 00'	
	25	B+W	10:33	90° 00'	
	26	R		90° 00'	
	27	Y		90° 00'	
	28	B+W	10:35	90° 00'	
	29	R		90° 00'	

76L298 307 8-53

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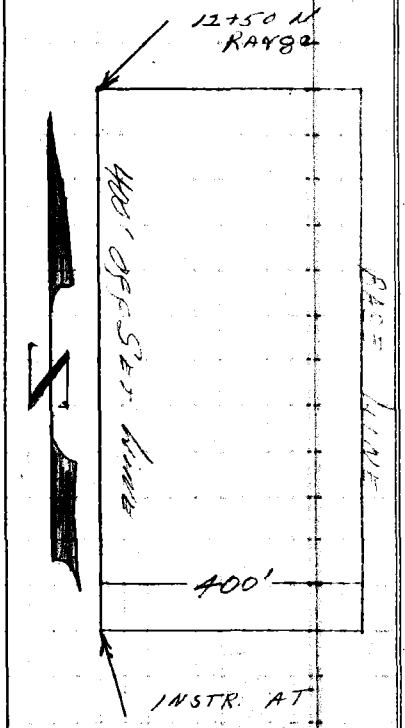
STATION		B. S.	H. I.	F. S.	ELEV.	Cut - IN	12+50 - N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
5+00 NORTH	12+50 400' WEST	1	B+W	10:08	68°14'		
		2	R		67°23'		
		3	Y		66°48'		
		4	B+W	10:10	66°[illegible]		
		5	R		65°49'		
		6	Y		65°32'		
		7	B+W	10:18	63°54'		
		8	R		63°22'		
		9	Y		62°38'		
		10	B+W	10:20	61°28'		
		11	R		59°58'		
		12	Y		58°59'		
		13	B+W	10:23	57°34'		
		14	R		55°45'		
		15	Y		53°44'		
		16	B+W	10:25	51°33'		
		17	R		49°43'		
		18	Y		47°45'		
		19	B+W	10:27	45°57'		
		20	R		43°15'		



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0412 Division No. ____ F. B. 1506 Pg. 151
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by ____ Notes E.R. Date 12-1-53
Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

76L298 307 8-53

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Do not extend notes this side of this line.

F. B. 1506 Pg. 152 Job No. 8412 Division No. Notes Red. Plotted No.
Survey of Bend Recession Study Date Date X-Sec.
Survey by F. H. BLANCHARD Notes Rebbins Notes Chkd. Checked No.
Indexed A. C. Johnson Date 12-1-53 Date Date

Profile

Cut - IN - 12+50 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
5+00 NORTH	21	Y		41° 43'	
	22	B+W	10:29	39° 21'	
	23	R		36° 42'	
12+50 400' West	24	Y		34° 18'	
	25	B+W	10:32	31° 48'	
	26	R		30° 15'	
	27	Y		28° 19'	
	28	B+W	10:33	26° 45'	
	29	R		24° 12'	

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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+407

Do not extend notes this side of this line. 416 + 48.46 N

Boat 12 + 50 N

STATION #	Color	B. B. Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks SM	Remarks LA
			31.5					
1	R+W	10:09	30.9	31.1	2.3 ✓	28.8 ✓	2280	2687
			32.0					
2	R		30.8	31.2	2.3	28.9 ✓	2200	2607
			30.7					
3	Y		28.9	29.5	2.2 ✓	27.3 ✓	2150	2557
			30.0					
4	B+W	10:11	27.8	28.5	2.2	26.3 ✓	2099	2506
			27.8					
5	R		26.3	26.8	2.2	24.6 ✓	2071	2478
			20.0					2457
6	Y		16.0	17.3	2.1 ✓	15.2 ✓	2050	Sea edge
			19.8					2338
7	B+W	10:19	19.6	19.3	2.1	17.2 ✓	1931	Shore edge
			27.8					
8	R		27.0	27.3	2.1	25.2 ✓	1896	2303
			28.0					
9	Y		27.0	27.3	2.1	25.2 ✓	1850	2257
			27.5					
10	B+W	10:21	26.9	27.1	2.1	25.0 ✓	1780	2187
			26.5					
11	R		25.6	25.9	2.1	23.8 ✓	1698	2105
			25.0					
12	Y		24.5	24.7	2.1	22.6 ✓	1648	2055
			23.9					
13	B+W	10:23	23.0	23.3	2.1	21.2 ✓	1580	1987
			23.3					
14	R		22.2	22.6	2.1	20.5 ✓	1501	1908
			22.6					
15	Y		21.5	21.9	2.0 ✓	19.9 ✓	1422	1829
			21.8					
16	B+W	10:26	20.9	21.2	2.0	19.2 ✓	1345	1752
			20.1					
17	R		17.7	18.5	2.0	16.5 ✓	1285	1692
			19.0					
18	Y		18.5	18.7	2.0	16.7 ✓	1225	1632
			17.2					
19	B+W	10:28	16.6	16.8	2.0	14.8 ✓	1175	1582
			16.1					
20	R		15.0	15.4	2.0 ✓	13.4 ✓	1106	1513

Profile Notes Rod. Plotted Job No. 8412 Division No. F. B. 1586 Pg. 153

No. Date Survey of Beach Erosion Study

Notes Checked Surveyed by F.M.G. Notes Date

No. Date Map No. Ind. C. Tabanda Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		12+50 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		15.8 14.1	14.7	20 ✓	12.7 ✓	1069	1476
22	B+W	10:30	14.1 13.0	13.4	2.0	11.4 ✓	1015	1422
23	R		14.8 13.1	13.7	2.0	11.7 ✓	960	1367
24	Y		13.8 12.5	12.9	2.0	10.9 ✓	911	1318
25	B+W	10:32	12.5 11.8	12.0	2.0	10.0 ✓	865	1272
26	R		11.0 10.0	10.3	2.0	8.3 ✓	838	1245
27	Y		10.2 9.0	9.4	2.0	7.4 ✓	805	1212
28	B+W	10:33	8.1 7.5	7.7	2.0	5.7 ✓	778	1185
29	R		7.8 6.7	7.1	20 ✓	5.1 ✓	753	1160
30	Y							
31	B+W							
32	R							
33	Y							

F. B. 1506 Pg. 154
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by F.H.B. Notes 12/1/53 Notes Chkd. CEM Checked
Indexed [illegible] Date Date 1/28/54 Date No.

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BANGE	15+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
15+00N 300' W. OFF	12+50N 300' W. OFF	1	B+W	10:51	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B+W.	10:53	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B+W.	10:55	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B+W.	10:58	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B+W.	11:01	90° 00'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B+W.	11:04	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B+W.	11:07	90° 00'		
		20	R		90° 00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 155

No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY

X-Sec. Notes Chkd ____ Checked ____ Survey by E.H. BLANCHARD A.S. Date 12-1-53

No. ____ Date ____ Date ____ Map No. ____ Index No. C John Pole

F.B. 1506 PG. 156 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Study Date _____ Date _____ No. _____

Survey by _____ Notes A.S. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date 12-1-53 Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	15+00 N

Inst. Sight At On

#	Color	Time	Hor. Ang.	Remarks
21	Y		90° 00'	
22	B.W.	11:09	90° 00'	
23	R		89° 36'	
24	Y		90° 00'	
25	B.W.	11:11	90° 00'	
26	R		90° 00'	
27	Y		90° 00'	

15+00 N 300' W. OFF

12+50 N " " "

76L298 307 10-51

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76L298 307 8-53

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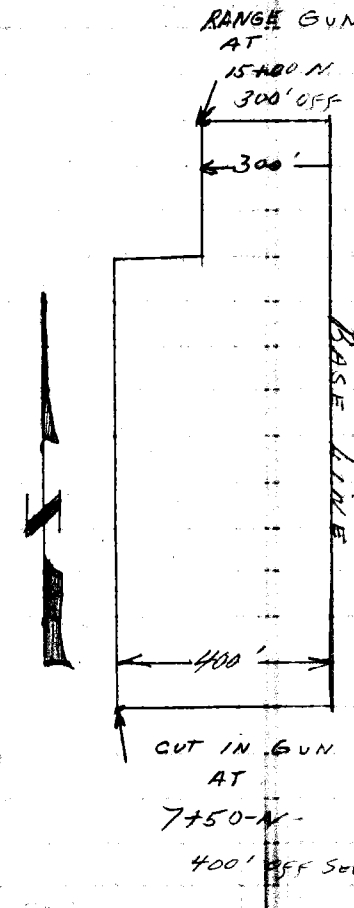
STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN - 15+00 - N	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
7+50 NORTH	12+50 400' WEST	1	B+W	10:50	69°05'		
		2	R		68°25'		
		3	Y		67°38'		
		4	B+W	10:53	66°39'		
		5	R		66°10'		
		6	Y		65°49'		
		7	B+W	10:56	64°07'		
		8	R		63°38'		
		9	Y		63°10'		
		10	B+W	10:58	61°38'		
		11	R		60°09'		
		12	Y		58°27'		
		13	B+W	11:00	56°48'		
		14	R		54°45'		
		15	Y		52°24'		
		16	B+W	11:03	50°24'		
		17	R		47°21'		
		18	Y		44°55'		
		19	B+W	11:05	41°59'		
		20	R		39°27'		



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD Name ER Date 11-1-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 157

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT - IN -	15+00 - N -
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		35°52'		
	22	B+W	11:07	33°27'		
	23	R		30°28'		
	24	Y		27°55'		
	25	B+W	11:10	25°54'		
	26	R		24°09'		
	27	Y		22°19		
7+50 NORTH						
12+50 WEST						

F. B. 1506 PG. 158 Job No. 8412 Division No. Notes Red. Plotted Date No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F. H. BLANCHARD Notes Robbins Notes Chkd. Checked
Indexed K. C. Johnson Date 12-1-53 Date Date No.

76L296 307 4-50

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726 Los Angeles County Engineering Bldg.

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+445

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Boat 15+00N

STATION #	Color	B. S. Time	H. I. Upper	Bottom	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks SM	LA
1	B+W	10:50	31.8 / 30.3		30.8	1.8	29.0 ✓	2360	2775
2	R		30.1 / 29.0		29.4	1.8	27.6 ✓	2298	2713
3	Y		31.1 / 29.8		30.2	1.8	28.4 ✓	2222	2637
4	B+W	10:52	30.1 / 28.9		29.0	1.8	27.2 ✓	2137	2552
5	R		28.0 / 26.1		26.7	1.8	24.9 ✓	2098	2513
6	Y		26.0 / 24.9		25.3	1.8	23.5 ✓	2071	Sea edge 2486
7	B+W	10:56	21.0 / 20.2		20.5	1.8	18.7 ✓	1947	shore edge 2362
8	R		25.8 / 24.2		24.7	1.8	22.9 ✓	1912	2327
9	Y		28.3 / 26.9		27.4	1.7	25.7 ✓	1881	2296
10	B+W	10:58	28.0 / 26.9		27.3	1.7	25.6 ✓	1789	2204
11	R		27.1 / 26.2		26.5	1.7	~~24.7~~ 24.8	1708	2123
12	Y		26.0 / 25.0		25.3	1.7	~~23.5~~ 23.6	1622	2037
13	B+W	11:00	25.6 / 24.8		25.1	1.7	23.4 ✓	1547	1962
14	R		24.1 / 23.0		23.4	1.7	21.7 ✓	1460	1875
15	Y		23.0 / 21.9		22.3	1.7	20.6 ✓	1374	1789
16	B+W	11:03	23.0 / 21.5		22.0	1.7	20.3 ✓	1307	1722
17	R		20.5 / 19.5		19.8	1.7	18.1 ✓	1214	1629
18	Y		19.0 / 18.0		18.3	1.7	16.6 ✓	1148	1563
19	B+W	11:06	17.0 / 15.9		16.3	1.7	14.6 ✓	1075	1490
20	R		16.2 / 15.0		15.4	1.7	13.7 ✓	1018	1433

Profile Notes Rod. Plotted Job No. 84-2 Division No. F. B. 1506 P. 172
No. Date Survey of Boat Channel
No. Date Checked Survey by J. H. BLANCHARD Party
No. Date Map No. Ind. Ass't. C. J.

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		15+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		14.6 13.4	13.8	1.7 ✓	12.1 ✓	943	1358
22	B+W	11:08	14.2 13.0	13.4	1.7 ✓	11.7 ✓	896	1311
23	R		13.0 12.0	12.3	1.6 ✓	10.7 ✓	841	1256
24	Y		12.0 10.5	11.0	1.6	9.4 ✓	798	1213
25	B+W	11:10	11.1 9.0	9.7	1.6	8.1 ✓	764	1179
26	R		10.0 8.1	8.7	1.6	7.1 ✓	736	1151
27	Y		7.9 6.8	7.2	1.6 ✓	5.6 ✓	708	1123

F. B. 1506 Pg. 160
Job No. 8412
Division No.
Notes Red.
Plotted
Profile
Survey of Beach Erosion Study
Date
Date
No.
Survey by E. H. BLANCHARD
Notes 12/1/53
Notes Chkd. CEM
Checked
X-Sec.
Indexed B. Johnson
Date
Date 1/28/54
Date
No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	17+50 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W.	11:28	90° 16'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B+W.	11:30	90° 09'		
		5	R		90° 00'		
17+50 N 200' W. OFF	"	6	Y		90° 00'		
	"	7	B+W.	11:33	90° 06'		
	"	8	R		90° 00'		
	"	9	Y		90° 00'		
	"	10	B+W.	11:37	90° 00'		
		11	R		90° 00'		
		12	Y		90° 20'		
	15+00 N	13	B+W.	11:39	90° 00'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B+W.	11:41	90° 00'		
		17	R		90° 22'		
		18	Y		90° 00'		
		19	B+W.	11:43	90° 00'		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 161

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY

Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD R.S. Date 12-1-53

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 1506 PG. 162 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Study Date _____ Date _____ No. _____

Survey by [illegible] Notes R.S. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date 12-1-53 Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE
Inst. At	Sight On				20+00N

#	Color	Time	Hor. Ang.	Remarks
	20+00 N. 100' W. OFF			
	25+00 N. " " "			
	B+W.	11:57	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	11:59	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	12:01	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	12:03	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	12:05	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	12:07	90°00'	
	R		90°00'	
	Y		90°00'	
	B+W.	12:08	90°00'	
	R		90°00'	

76L298 307 10-51

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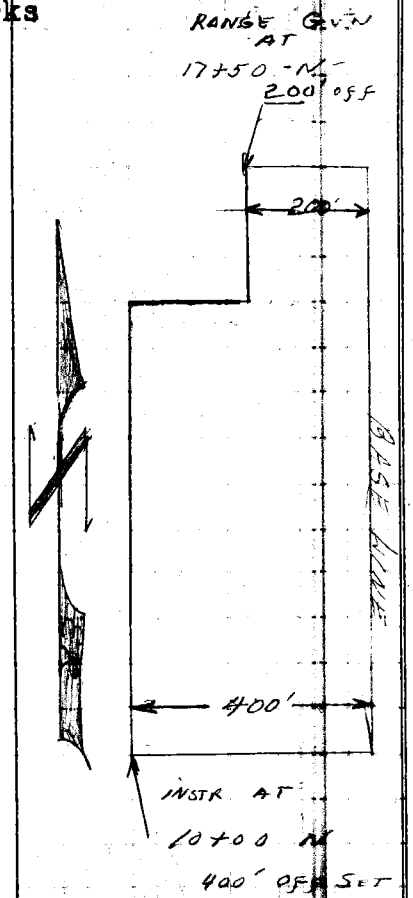
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT - IN	17+50 N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
10+00 NORTH / 12+50 WEST	1	B+W	11:26	68°27'		
	2	R		68°01'		
	3	Y		67°02'		
	4	B+W	11:30	66°04		
	5	R		65°39'		
	6	Y		63°32'		
	7	B+W	11:33	62°32'		
	8	R		60°51'		
	9	Y		58°47'		
	10	B+W	11:36	55°33'		
	11	R		52°03'		
	12	Y		48°34'		
	13	B+W	11:38	45°43'		
	14	R		40°32'		
	15	Y		36°15'		
	16	B+W	11:40	32°28'		
	17	R		27°36'		
	18	Y		24°41'		
	19	B+W	11:43	22°30'		
	20	R		18°48'		



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Note ER Date 12-1-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 1506 Pg. 163

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

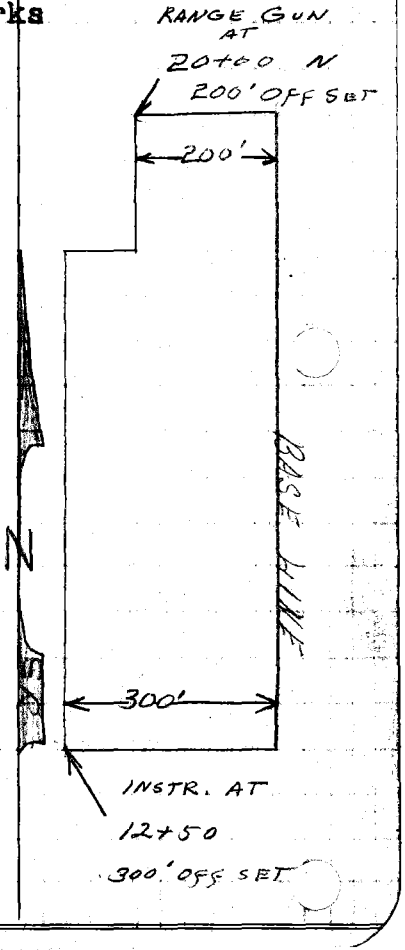
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT - IN	20+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B&W	11:57	66°14'		
	2	R		64°48'		
	3	Y		63°14'		
	4	B&W	11:59	61°01'		
	5	R		58°39'		
	6	Y		56°48'		
	7	B&W	12:01	54°26'		
	8	R		51°44'		
	9	Y		48°32'		
	10	B&W	12:03	45°57'		
	11	R		43°08'		
	12	Y		39°52'		
	13	B&W	12:04	36°49'		
	14	R		33°[illegible]'		
	15	Y		30°43'		
	16	B&W	12:06	27°01'		
	17	R		26°05'		
	18	Y		23°19'		
	19	B&W	12°08	21°07'		
	20	R		19°13		

12+50 NORTH

15+00-300' WEST



F. B. 1506 Pg. 164 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date Date X-Sec.
Survey F. H. BLANCHARD Notes Robbins Notes Chkd. Checked No.
Indexed C. Johnson Date 12-1-53 Date Date

76L298 307 4-50

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Do not extend notes this side of this line. 421 + 48.68 N +422

STATION		B. S.	H. I.	F. S.	ELEV.		Boat	17+50 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B+W	11:27	31.3 30.5	30.8	1.5	29.3	2299	2721
2	R		31.0 28.9	29.6	1.5	28.1	2259	2681
3	Y		30.3 28.3	29.0	1.5	27.5	2170	2592
4	B+W	11:30	28.9 26.0	27.0	1.5	25.5	2090	2512
5	R		26.8 25.1	25.7	1.5	24.2	2058	2480 Sea edge
6	Y		23.3 22.1	22.5	1.5	21.0	1907	2329 Shore edge
7	B+W	11:33	28.0 26.8	27.2	1.5	25.7	1883	2305
8	R		27.0 26.1	26.4	1.5	24.9	1745	2167
9	Y		26.7 25.8	26.1	1.5	24.6	1637	2059
10	B+W	11:36	25.9 24.9	25.2	1.5	23.7	1491	1913
11	R		24.4 22.9	23.4	1.5	21.9	1363	1785
12	Y		22.5 21.5	21.8	1.5	20.3	1250	1672
13	B+W	11:38	22.0 19.2	20.1	1.5	18.6	1169	1591
14	R		20.4 18.9	19.4	1.5	17.9	1041	1463
15	Y		19.6 16.6	17.6	1.5	16.1	950	1372
16	B+W	11:41	16.5 14.8	15.4	1.5	13.9	878	1300
17	R		15.0 12.8	13.5	1.5	12.0	792	1214
18	Y		12.5 11.0	11.5	1.5	10.0	745	1167
19	B+W	11:43	13.0 10.8	11.5	1.5	10.0	711	1133
20	R		9.6 7.8	8.2	1.5	6.7	656	1078

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 185
No. ____ Date ____ Date ____ Survey of Beach Emergency Stockpile
X-Sec. Notes Chkd. CEM Checked ____ Survey by F. H. BLANCHARD Date [illegible]
No. ____ Date 1/28/54 Date ____ Map No. ____ Indexed C. Job [illegible]

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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+430

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F. B. 1506 Pg. 166 Profile
Survey of B. Beach Entrance No. X-Sec.
Survey by U.S. Johnson Plotted Notes Red. Division No.
Indexed Date 12/1/53 Date Date Job No. 8112
Notes Chkd. CEM Checked
Date 1/28/54 Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Boat	20+00N
# Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
1 B+W	11:57	28.8 / 27.7	28.1	15 ✓	26.6 ✓	SM 2003 First 1852	LA 2433 1/2 NE North of breakwater
2 R		29.1 / 26.5	27.4	1.5	25.9 ✓		2322
3 Y		27.5 / 25.5	26.1	1.5	24.6 ✓	1789	2219
4 B+W	11:59	27.5 / 24.5	25.5	15 ✓	24.0 ✓	1654	2084
5 R		25.8 / 22.8	23.5	1.4	22.1 ✓	1531	1961
6 Y		24.9 / 22.4	22.8	1.4	21.4 ✓	1447	1877
7 B+W	12:01	24.8 / 20.8	22.1	1.4	20.7 ✓	1350	1780
8 R		23.1 / 21.0	21.7	1.4	20.3 ✓	1250	1680
9 Y		22.3 / 20.5	20.8	1.4	19.4 ✓	1148	1578
10 B+W	12:03	21.6 / 19.8	20.4	1.4	19.0 ✓	1075	1505
11 R		20.9 / 18.5	19.3	1.4	17.9 ✓	1004	1434
12 Y		20.3 / 17.1	18.2	1.4	16.8 ✓	927	1357
13 B+W	12:05	19.8 / 17.9	18.3	1.4	16.9 ✓	862	1292
14 R		18.1 / 15.7	16.5	1.4	15.1 ✓	800	1230
15 Y		17.1 / 14.8	15.6	1.4	14.2 ✓	746	1176
16 B+W	12:06	15.9 / 13.5	13.5	1.4	12.1 ✓	683	1113
17 R		14.2 / 11.8	12.6	1.4	11.2 ✓	667	1097
18 Y		11.7 / 9.5	10.0	1.4	8.6 ✓	624	1054
19 B+W	12:08	9.2 / 8.0	8.4	1.4	7.0 ✓	590	1020
20 R		8.8 / 6.9	7.3	1.4 ✓	5.9 ✓	562	992

F. B. 1506 Pg. 167

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

Survey of
W. O. Tape No. Sr'd. °F
Surveyed by
Notes Date
Indexed R. C. Johnson

TIDE GAGE

STANDARD TIME

12-2-53

TIME	GAGE
8:00	5.2
8:30	4.6
9:00	4.2
9:30	3.7
10:00	3.2
10:30	2.7
11:00	2.0
11:30	1.7
12:00	1.5
12:30	1.0
1:00	0.9

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RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76FSOSS 247 4-53

F.B. 1506 PG. 168

TIDE GAGE

STANDARD TIME

12-3-53

TIME	GAGE
7 00	6.2
7 30	5.9
8 00	5.6
8 30	5.1
9 00	4.8
9 30	4.1
10 00	3.7
10 30	3.0
11 00	2.3
11 30	1.9
12 00	1.1
12 30	0.8
1 00	0.4

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LOS ANGELES COUNTY SURVEYOR
728 LOS ANGELES COUNTY
ENGINEERING BLDG.

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76F3098 247 4-53

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726 LOS ANGELES COUNTY
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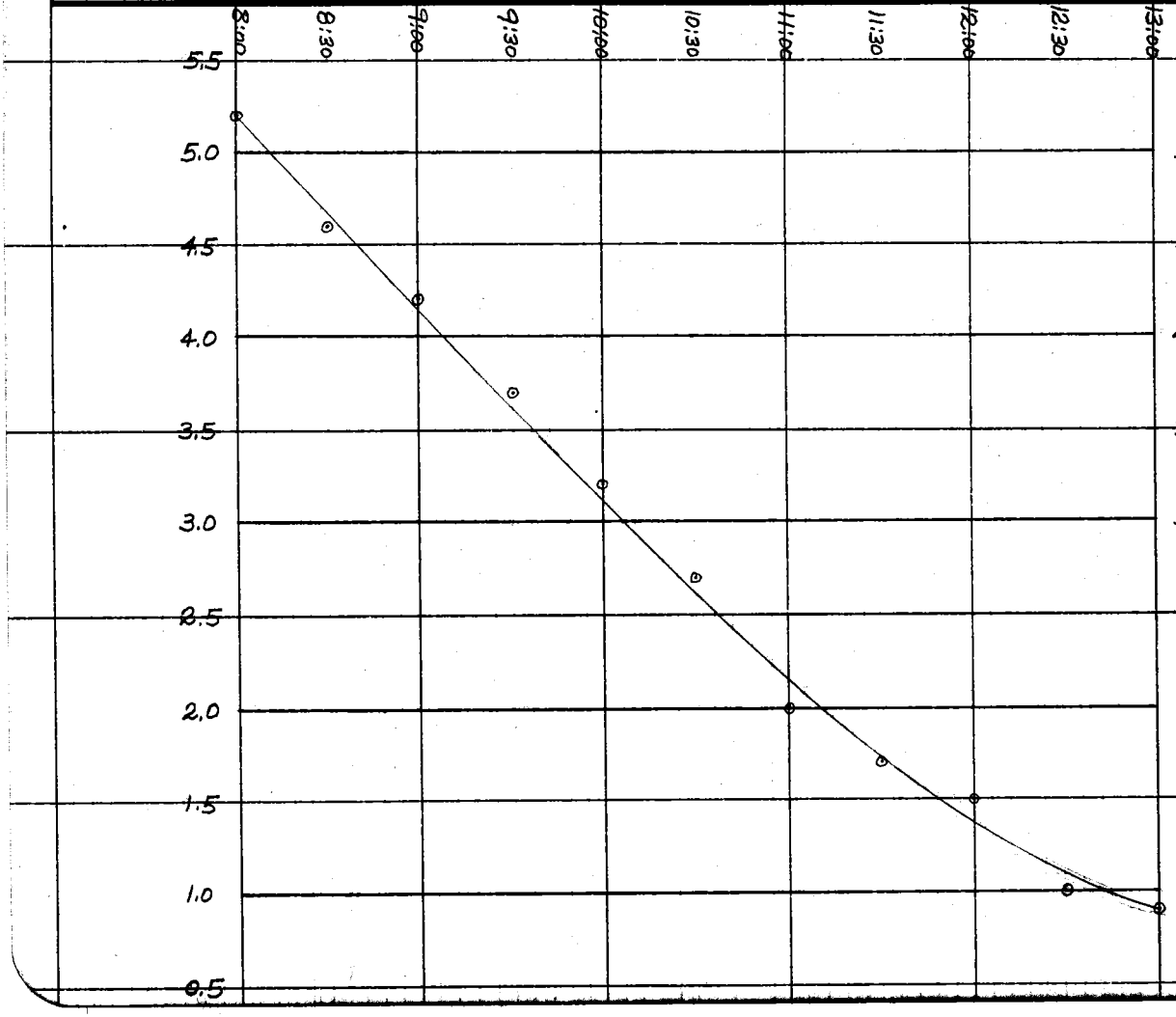
December 2, 1953



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

Survey of
W. O. Tape No. Sk'd. eF
Surveyed by
Notes Date
Indexed

F. B. 1506 Pg. 1684

F. B. 1506 PG. 168B

December 3, 1953

6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

13:00
12:30
12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00

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725 LOS ANGELES COUNTY
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6.0

76L298 307 10-51

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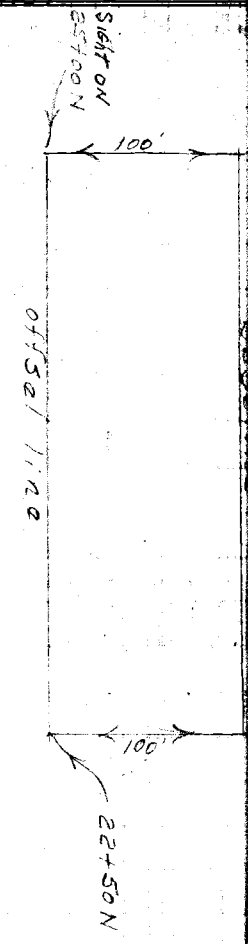
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	22+50 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	1	B+W	8:47	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	8:51	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	8:54	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	8:55	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
	13	B+W	8:59	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	9:02	89° 48'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B+W	9:04	90° 00'		
	20	R		90° 00'		

22+50 N 100' W. OFF

25+00 N 100' W. OFF



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 169

No. ____ Date ____ Date ____ Survey of BLACK DIVISION STUDY

X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H. BLANCHARD, P.S. Date 12-2-58

No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 10-51

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ENGINEERING BLDG.

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F.B. 3506 Pg. 170 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date 12-2-53 Date No. X-Sec.
Survey by [illegible] Notes A.S. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Barge	22+50 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21	V		89° 57'		
	22	B+W	9:06	90° 00'		
	23	R		90° 00'		
	24	V		90° 00'		
22+50 N 100' W. OFF	25	B+W	9:09	90° 00'		
	26	R		90° 00'		
	27	V		90° 00'		
25+00 N 100' W. OFF	28	B+W	9:13	90° 00'		

76L298 307 10-51

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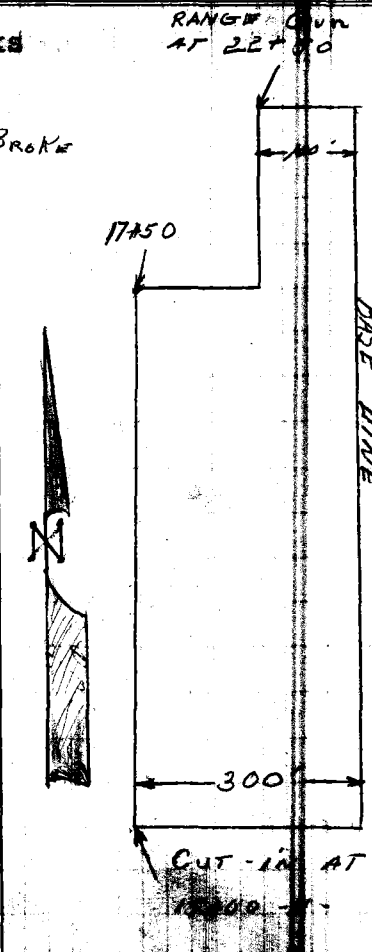
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN 22+50 - N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
15+00 NORTH	17+50 300' OFF SET	1	B+W	8:45	70°20'	
		2	R		69°13'	STARTING Pin BROKE
		3	Y		68°00'	
		4	B+W	8:48	66°28'	
		5	R		64°53'	
		6	Y		63°26'	
		7	B+W	8:51	61°57'	
		8	R		60°07'	
		9	Y		57°40'	
		10	B+W	8:54	55°31'	
		11	R		53°06'	
		12	Y		50°27'	
		13	B+W	8:57	47°43'	
		14	R		44°10'	
		15	Y		41°21'	
		16	B+W	9:00	37°36'	
		17	R		33°03'	
		18	Y		29°32'	
		19	B+W	9:02	27°13'	
		20	R		24°30'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 171
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD CP Date 12-2-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT - IN	22+50 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		24° 05'		
	22	B+W	9:04	22° 52'		
	23	R		21° 36'		
	24	Y		18° 48'		
	25	B+W	9:06	17° 45'		
	26	R		17° 01'		
	27	Y		15° 37'		
	28	B+W	9:10	12° 14'		
15+00 NORTH						
17+50 300' WEST						

Profile No. X-Sec. No.

Plotted Date Checked Date No.

Notes Red. Date Notes Chkd. Date

Division No.

Job No.

Survey of

Survey by F. H. DEARNHARD Notes

Indexed K. C. Johnson Date

F.B. 1506 PG 172

76L298 307 8-53

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+437

Do not extend notes this side of this line. 426 + 49.02 N

Boat 22+50 N

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	8:45	33.6 32.9	33.1	44 ✓	287 ✓	2342	2779
2	R		33.8 32.0	32.6	44	282 ✓	2279	2716
3	Y		33.0 31.2	31.8	44	274 ✓	2153	2590
4	B+W	8:48	31.5 29.9	30.4	43 ✓	261 ✓	2020	2457
5	R		30.6 29.9	30.1	4.3	258 ✓	1899	2336
6	Y		31.7 28.2	29.1	4.3	248 ✓	1800	2237
7	B+W	8:51	28.6 27.5	27.9	4.3	236 ✓	1708	2145
8	R		28.9 26.8	27.2	4.3	229 ✓	1607	2044
9	Y		27.3 25.7	26.1	43	21.8 ✓	1532	1969
10	B+W	8:54	26.5 25.8	26.0	42 ✓	218 ✓	1391	1828
11	R		26.1 24.5	25.0	4.2	208 ✓	1301	1738
12	Y		26.0 24.2	24.8	4.2	20.6 ✓	1209	1646
13	B+W	8:57	25.0 22.8	23.5	4.2	19.3 ✓	1124	1561
14	R		24.0 22.7	23.1	4.2	18.9 ✓	1029	1466
15	Y		24.1 22.5	23.0	4.2	18.8 ✓	960	1397
16	B+W	8:59	22.9 21.6	22.0	42	17.8 ✓	878	1315
17	R		23.3 20.1	21.2	41 ✓	17.1 ✓	789	1226
18	Y		22.0 18.1	19.4	4.1	15.3 ✓	725	1162
19	B+W	9:02	20.8 18.1	19.0	4.1	14.9 ✓	686	1123
20	R		18.1 15.9	16.6	41 ✓	12.5 ✓	642	1079

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 173
No. ____ Date ____ Date ____ Survey of BEACH CROSSING STUDY
X-Sec. Notes Chkd. CEM Checked ____ Survey by BLANCHARD Notes ____ Date 12/2/53
No. ____ Date 1/28/54 Date ____ Map No. ____ Indexed C. Johnson

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		22+50 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
21	Y		18.9 15.9	16.9	4.1 ✓	128 ✓	635	1072
22	B+W	9:04	18.6 15.9	16.8	4.1	127 ✓	616	1053
23	R		16.0 15.0	15.3	4.0 ✓	113 ✓	597	1034
24	Y		13.9 12.2	12.8	4.0	88 ✓	556	993
25	B+W	9:06	12.4 11.0	11.5	4.0	75 ✓	540	977
26	R		12.6 11.0	11.5	4.0	75 ✓	530	967
27	Y		12.8 10.1	11.0	4.0 ~~3.3~~	~~71~~ 7.0	503	940
28	B+W	9:10	9.5 8.5	8.8	4.0 ~~3.3~~	~~49~~ 4.8	463	900
29	R							

F. B. 1506 PG. 174 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDY Date Date X-Sec.
Survey by BLANCHARD Notes 12/2/53 Notes Chkd. CEM Checked No.
Indexed E. C. Johnson Date Date 1/28/54 Date

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	25+00 N
Inst. Sight	#	Color	Time	Hor. Ang.	Remarks	
25+00 N 100' W. OFF	1	B+W	9:23	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	9:26	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	9:30	90° 12'		
22+50 N " " "	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	9:34	90° 00'		
	11	R		90° 00'		
	12	Y		90° 13'		
	13	B+W	9:37	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	9:39	90° 00'		
	17	R		90 00'		
	18	Y		90° 00'		
	19	B+W	9:42	90° 00'		
	20	R		90° 00'		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 175

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY

Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD, A.S. Date 12-2-53

Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson

F.B. 1506 PG. 176 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH Date _____ Date _____ No. _____

Survey by _____ Notes A.S. Notes Chkd. _____ Checked _____ X-Sec.

Indexed K. C. Johnson Date 12-2-53 Date _____ Date _____ No. _____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	25+00N
Inst. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
25+00N 100' W. OFF	21	Y		90° 00'		
22+50N " " "	22	B+W	9:45	90° 00'		
	23	B		90° 00'		
	24	Y		89° 39'		
	25	B+W	9:40	90° 00'		
	26	B		90° 00'		

76L298 307 10-51

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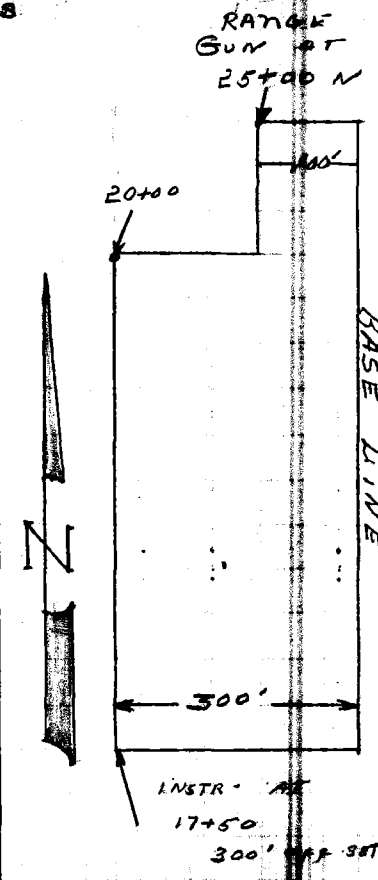
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT — IN	25+00 -N-
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
17+50 NORTH	20+00 300' OFF-SET	1	B&W	9:21	71°07'		
		2	R		70°10'		
		3	Y		68°55'		
		4	B&W	9:25	67°12'		
		5	R		65°28'		
		6	Y		63°36'		
		7	B&W	9:27	61°17'		
		8	R		59°43'		
		9	Y		56°20'		
		10	B&W	9:30	53°21'		
		11	R		51°43'		
		12	Y		49°26'		
		13	B&W	9:33	47°56'		
		14	R		45°54'		
		15	Y		43°14'		
		16	B&W	9:34	39°30'		
		17	R		36°54'		
		18	Y		32°58'		
		19	B&W	9:36	31°33'		
		20	R		29°32'		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 4812 Division No. ____ F.B. 1506 Pg. 177

X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

Notes Chkd ____ Checked ____ Survey by: [illegible] Date 12-2-53

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 1506 PG. 178 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erossion Studies Date _____ Date _____ No. _____

Survey by _____ Notes Robbins Notes Chkd. _____ Checked _____ X-Sec.

Indexed [illegible] Date 12-2-53 Date _____ Date _____ No. _____

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
17+50 NORTH						
20+00 300'						
	21	Y		28°16'		
	22	B+W	9:41	26°44'		
	23	R		24°33'		
	24	Y		21°52'		
	25	B+W	9:43	20°08'		
	26	R		17°55'		
					CUT - IN	25+00 - N

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Boat 25+00 N

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	SM	Remarks LA
1	B+W	9:21	34.1 / 31.9	32.6	3.7 ✓	28.9 ✓	2927	2827
2	R		32.4 / 30.1	30.9	3.7	27.2 ✓	2815	2715
3	Y		30.4 / 29.5	29.8	3.7	26.1 ✓	2680	2580
4	B+W	9:25	30.5 / 29.0	29.5	3.7	25.8 ✓	2517	2417
5	R		28.8 / 27.7	28.1	3.7	24.4 ✓	2375	2275
6	Y		28.8 / 26.5	27.3	3.7	23.6 ✓	2245	2145
7	B+W	9:27	28.0 / 25.2	26.1	3.6 ✓	22.5 ✓	2103	2003
8	R		27.0 / 25.5	26.0	3.6	22.4 ✓	2017	1917
9	Y		25.7 / 23.8	24.4	3.6	20.8 ✓	1860	1760
10	B+W	9:30	26.0 / 23.8	24.5	3.6	20.9 ✓	1743	1643
11	R		25.0 / 23.5	24.0	3.6	20.4 ✓	1685	1585
12	Y		24.8 / 22.0	22.9	3.6	19.3 ✓	1611	1511
13	B+W	9:33	24.0 / 22.8	23.2	3.5 ✓	19.7 ✓	1565	1465
14	R		23.1 / 22.2	22.5	3.5	19.0 ✓	1509	1409
15	Y		23.8 / 21.5	22.3	3.5	18.8 ✓	1441	1341
16	B+W	9:36	23.1 / 21.5	22.0	3.5	18.5 ✓	1354	1254
17	R		22.2 / 20.0	20.7	3.5	17.2 ✓	1299	1199
18	Y		20.4 / 18.5	19.1	3.5	15.6 ✓	1220	1120
19	B+W	9:38	20.1 / 17.9	18.6	3.5	15.1 ✓	1195	1095
20	R		18.9 / 17.7	18.1	3.5 ✓	14.6 ✓	1160	1060

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 179
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH ERUSION STUDY
Notes Chkd. CEM Checked ____ Survey by BLANCHARD Notes ____ Date 12/2/53
Date 1/28/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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F. B. 1576 Pg. 180 Job No. 8412 Division No. Profile No. X-Sec. No.
Survey of BEACH EROSION STUDY Notes Red. Plotted Date Checked Date
Survey by BLANCHARD Notes Chkd CEM Date 1/28/54 Date
Indexed C. Johnson Date 12/2/53

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		25+00 N
# Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	SM	Remarks	LA
21 Y		17.8 16.3	17.2	3.4	13.8 ✓	1139	1039
22 B+W	9:41	17.3 15.9 15.8	15.9	3.4	12.5 ✓	1113	1003
23 R		17.0 15.3	14.4	3.4	11.0 ✓	1078	978
24 Y		11.2 11.9	12.0	3.4	8.6 ✓	1036	936
25 B+W	9:43	10.2 11.8	10.8	3.4	7.4 ✓	1010	910
26 R		8.5	9.6	3.4	6.2 ✓	978	878

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	30 to 00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B+W	10:04	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	10:08	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	10:10	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	10:13	90° 00'		
	11	R		90° 12'		
	12	Y		90° 00'		
30+00 N 45+00 N	13	B+W	10:16	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	10:18	90° 00'		
	17	R		89° 43'		
	18	Y		90° 00'		
	19	B+W	10:20	90° 00'		
	20	R		90° 00'		

Profile Notes Red ____ Plotted ____ Job No. 8442 Division No. ____ F.B. 1506 Pg. 121
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Ckkd ____ Checked ____ Survey by E. H. BLANCHARD, P.S. Date 12-2-52
No. ____ Date ____ Date ____ Map No. ____ Index ____ C. JOHNSON

F.B. 1506 PG. 182 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

Survey by C. Johnson Notes A.S. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	RANGE
30+00N	21	Y		00'	30+00N
45+00N	22	B+W			
	23	B			
	24	Y			
	25	B+W			

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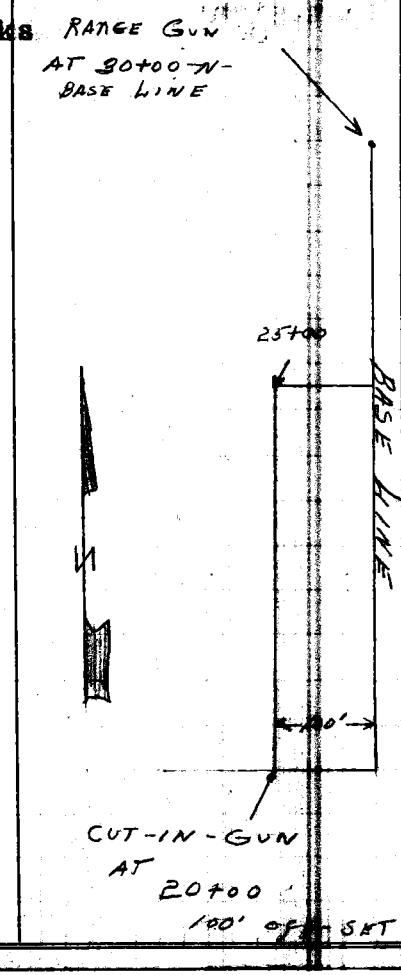
STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN	30+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
20+00 NORTH	25+00 100' OFF-SET	1.	B+W	10:01	64° 25'		
		2.	R		62° 35'		
		3.	Y		58° 50'		
		4	B+W	10:05	55° 51'		
		5	R		54° 00'		
		6	Y		51° 40'		
		7	B+W	10:08	48° 41'		
		8	R		46° 48'		
		9	Y		44° 37'		
		10	B+W	10:10	41° 10'		
		11	R		38° 53'		
		12	Y		36° 42'		
		13	B+W	10:13	32° 41'		
		14	R		29° 40'		
		15	Y		28° 15'		
		16	B+W	10:15	26° 02'		
		17	R		24° 30'		
		18	Y		22° 39'		
		19	B+W	10:17	20° 42'		
		20	R		18° 43'		



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 183
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD Date 12-8-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Date

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STATION		B. S.	H. I.	F. S.	ELEV.	Cut - IN	30+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	~~X~~		17°34	Check for Red 20th Shot	
		22	B+W	10:20	16°16'		

F.B. 1586 PG 184

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

Survey of ____ Date ____ Date ____ No. ____

Survey by F. H. BERNHARD Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Johnson Date ____ Date ____ Date ____ No. ____

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+427

Do not extend notes this side of this line. 433+99.33 N

STATION		B. S.	H. I.	F. S.	ELEV.		Boat	30+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	10:01	30.0 27.9	28.6	31 ✓	25.5 ✓	2189	2616
2	R		[illegible]	28.4	31	25.3 ✓	2028	2455
3	Y		29.8 27.0	27.9	30 ✓	24.9 ✓	1753	2180
4	B+W	10:05	27.4 24.3	25.3	3.0	22.3 ✓	1574	2001
5	R		25.2 23.8	24.3	3.0	21.3 ✓	1476	1903
6	Y		25.0 23.8	24.2	3.0	21.2 ✓	1365	1792
7	B+W	10:08	24.2 22.7	23.2	3.0	20.2 ✓	1238	1665
8	R		24.0 22.1	22.7	3.0	19.7 ✓	1165	1592
9	Y		[illegible]	22.7	30	19.7 ✓	1087	1514
10	B+W	10:10	22.6 21.7	22.0	29 ✓	19.1 ✓	974	1401
11	R		22.9 20.1	21.0	2.9	18.1 ✓	906	1333
12	Y		[illegible]	21.2	2.9	18.3 ✓	845	1272
13	B+W	10:13	20.4 19.0	19.5	2.9	16.6 ✓	742	1169
14	R		20.0 17.8	18.5	2.9	15.6 ✓	670	1097
15	Y		18.0 17.2	17.5	29	14.6 ✓	637	1064
16	B+W	10:15	17.2 16.3	16.4	28 ✓	13.6 ✓	588	1015
17	R		16.3 14.4	15.0	2.8	12.2 ✓	556	983
18	Y		14.7 13.1	13.6	2.8	~~13.8~~ 10.8	517	944
19	B+W	10:17	13.2 12.0	12.4	2.8	9.6 ✓	478	905
20	R		11.2 9.5	10.1	28 ✓	7.3 ✓	439	866

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 185

X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]

Notes Chkd. CEM Checked ____ Survey by EKB Notes ____ Date 12/2/53

Date 1/28/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		30+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
21	Y	.	10.1 8.5	9.0	28 ✓	6.2 ✓	417	844
22	B+W	10:20	9.0 7.0	7.7	28 ✓	4.9 ✓	392	819
23	R							
24	Y							
25	B+W							
26	R							

F. B. 1506 Pg. 186 Job No. 8413 Division No. Notes Red. Plotted No. Profile
Survey of BEACH SPOSION STUDY Date Date X-Sec.
Survey by FKB Notes 12/2/53 Notes Chkd. CEM Checked No.
Indexed R. C. Johnson Date Date 1/28/54 Date

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RANGE 35 TOON

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	# / Color	Time	Hor. Ang.		
	1 B+W	10:49	90° 00'		
	2 R		90° 00'		
	3 Y		90° 00'		
	4 B+W	10:52	90° 00'		
	5 R		90° 00'		
	6 Y		90° 00'		
	7 B+W	10:55	90° 00'		
	8 R		90° 00'		
	9 Y		90° 00'		
	10 B+W	10:58	90° 00'		
	11 R		90° 00'		
	12 Y		90° 00'		
35 TOON / 45 TOON	13 B+W	10:59	90° 00'		
	14 R		90° 00'		
	15 Y		90° 00'		
	16 B+W	11:01	90° 00'		
	17 R		90° 00'		
	18 Y		90° 00'		
	19 B+W	11:03	90° 00'		
	20 R		90° 00'		

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of F. H. BLANCHARD RS Date 12-2-53
X-Sec. Notes Chkd. Checked Survey by C. Johnson
No. Date Date Map No. Indexed

F. B. 15046 Pg. 187

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	40+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B+W	11:16	90° 17'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	11:18	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	11:20	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	11:22	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
40+00N 45+00N	13	B+W	11:24	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	11:26	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B+W	11:28	90° 00'		
	20	R		90° 00'		

F.B. 1506 Pg. 188 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION Study Date Date X-Sec.
Survey by F. H. F. H. BLANCHARD Notes Chkd. Checked No.
Indexed A. C. Johnson Date 12-2-53 Date

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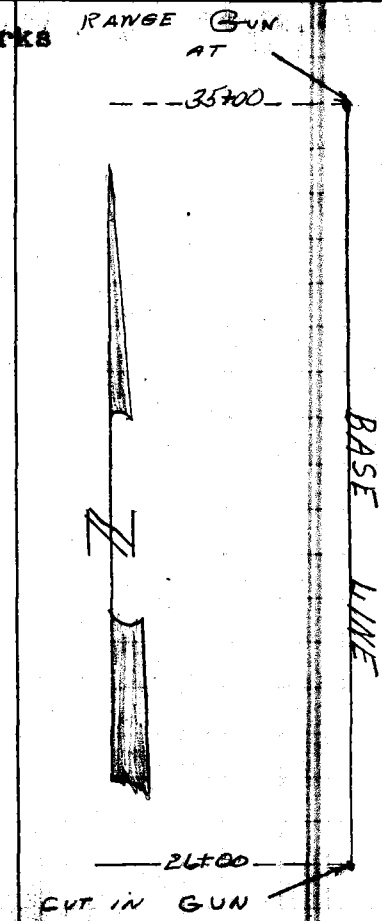
STATION		B. S.	H. I.	F. S.	ELEV.	CUT -IN	35+00 - N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W	10:52	68°26'		
		2	R		66°49'		
		3	Y		64°55'		
		4	B+W	10:55	62°58'		
		5	R		61°09'		
		6	Y		59°12'		
		7	B+W	10:57	56°37'		
		8	R		54°01'		
		9	Y		50°43'		
26+00 -N-	35+00 -N-	10	B+W	11:00	46°16'		
		11	R		43°54'		
		12	Y		41°26'		
		13	B+W	11:02	38°48'		
		14	R		36°18'		
		15	Y		34°13'		
		16	B+W	11:03	31°49'		
		17	R		29°10'		
		18	Y		28°08'		
		19	B+W	11:05	26°54'		
		20	R		25°40		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 189
X-Sec. No. ____ Date ____ Date ____ Survey of Bench Exposed Study
Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD ER Date 12-2-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Sale

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STATION		B. S.	H. I.	F. S.	ELEV.	Cut-in	40+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
30+00 - N	40+00 - N	1	B&W	11:18	67°15'		RANGE GUN AT 40+00
		2	R		65°50'		
		3	Y		64°[illegible]8'		
		4	B&W	11:21	62°50'		
		5	R		61°31'		
		6	Y		60°[illegible]		
		7	B&W	11:23	57°56'		
		8	R		55°41'		
		9	Y		53°[illegible]		
		10	B&W	11:25	51°45'		
		11	R		49°04'		
		12	Y		46°[illegible]		
		13	B&W	11:27	43°[illegible]		
		14	R		41°[illegible]		
		15	Y		39°45'		
		16	B&W	11:28	37°14'		
		17	R		35°02'		
		18	Y		33°17'		
		19	B&W	11:30	31°41'		CUT-IN GUN AT 30+00
		20	R		29°17'		

BASE LINE

F.B. 1506 PG. 190 Job No. 8412 Division No. Notes Red. Plotted
Survey of Bepch Survey Studies Date Date No.
Survey by F. H. BLANCHARD Notes Robbins Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date 12-2-53 Date Date No.
Profile

76L298 307 8-53

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

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

Do not extend notes this side of this line. 438+99.79 N +405

STATION		B. S.	H. I.	F. S.	ELEV.		Boat	35+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	10:52	29.8 27.9	28.5	22 ✓	26.3 ✓	2280	2685
2	R		29.1 27.0	27.7	2.2	25.5 ✓	2102	2507
3	Y		28.1 26.0	26.7	2.2	245 ✓	1922	2327
4	B+W	10:55	25.0	25.7	2.2	235 ✓	1762	2167
5	R		24.6 24.0	24.5	2.2	223 ✓	1632	2037
6	Y		24.4 24.0	24.1	2.2	219 ✓	1510	1915
7	B+W	10:57	22.0	22.7	2.2	205 ✓	1369	1774
8	R		23.8 21.0	21.9	2.2	197 ✓	1241	1646
9	Y		22.8 21.0	21.6	22	194 ✓	1100	1505
10	B+W	11:00	[illegible]	21.4	21 ✓	193 ✓	922	1327
11	R		20.2	20.8	2.1	187 ✓	865	1270
12	Y		[illegible]	19.6	2.1	~~185~~ 17.5	795	1200
13	B+W	11:02	[illegible]	19.0	2.1	169 ✓	724	1129
14	R		20.0	18.1	2.1	160 ✓	661	1066
15	Y		[illegible]	17.0	2.1	149 ✓	613	1018
16	B+W	11:03	[illegible]	15.0	2.1	129 ✓	559	964
17	R		13.0	13.4	2.1	113 ✓	502	907
18	Y		13.0	11.7?	2.1	96? ✓	481	886
19	B+W	11:05	11.8 10.2	10.7	2.1	86 ✓	456	861
20	R		8.8	9.7	21 ✓	76 ✓	432	837

Profile Notes Red ____ Plotted ____ Job No. 2412 Division No. ____ F. B. 1506 Pg. 191
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. CEM Checked ____ Survey by FKB Notes ____ Date 12/2/53
No. ____ Date 1/28/54 Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line. 444+00.26 N +384

Profile

F. B. 1506 Pg. 92 Job No. 5413 Division No. Notes Red. Plotted

Survey of Beach & Sewer Notes Date X-Sec.

Survey by R. C. Johnson Notes Chkd. CEM Checked

Indexed Date 12/2/53 Date 1/28/54 Date No.

Bart 40+00 W

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	Tide	ELEV. Adj. Depth		Remarks SM	Remarks LA
1	B+W	11:18		29.4	28.8	1.7 ✓	26.9	✓	2385	2769
2	R			29.3	27.5	1.7	25.6	✓	2229	2613
3	Y			28.5	26.7	1.8 ✓	24.9	✓	2062	2446
4	B+W	11:21		27.5	25.3	1.8	23.5	✓	1949	2333
5	R			26.5	24.7	1.8	22.9	✓	1843	2227
6	Y			26.8	25.0	1.8	23.2	✓	1737	2121
7	B+W	11:23		25.2	23.4	1.8	21.6	✓	1596	1980
8	R			24.5	22.7	1.8	20.9	✓	1455	1849
9	Y			24.4	22.6	1.8	20.8	✓	1366	1750
10	B+W	11:25		23.9	22.1	1.8	20.3	✓	1268	1652
11	R			22.5	20.7	1.8	~~20.9~~ 18.9		1153	1537
12	Y			23.0	21.2	1.8	~~19.4~~	✓	1059	1443
13	B+W	11:27		21.5	19.7	1.7 ✓	18.0	✓	962	1346
14	R			21.4	19.7	1.7	18.0	✓	892	1276
15	Y			20.8	19.1	1.7	17.4	✓	832	1216
16	B+W	11:28		20.2	18.5	1.7	16.8	✓	760	1144
17	R			19.6	17.9	1.7	16.2	✓	701	1085
18	Y			18.9	17.2	1.7	15.5	✓	656	1040
19	B+W	11:30		18.2	16.7	1.7	15.0	✓	617	1001
20	R			15.9	14.6	1.7	12.7	✓	561	945

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	40+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		90° 00'		
	22	B.W		90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
45+00 N						
45+00 N						

Profile Notes Red. Plotted Job No. 2412 Division No.
No. Date Date Survey of [illegible]
X-Sec. Notes Chkd. Checked Survey by [illegible] Date 12-2-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 132

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	45+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B×W	11:45	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B×W	11:47	90° 00'		
	5	R		89° 46'		
	6	Y		90° 46'		
	7	B×W	11:49	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B×W	11:52	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
45+00N 55+00N	13	B×W	11:55	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B×W	11:57	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B×W	12:00	90° 00'		
	20	R		90° 00'		

F. B. 1506 Pg. 194 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No. X-Sec.
Survey by Notes A.S. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 195
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B	Notes E.R.	Date 12-2-53	
No.	Date	Date	Map No.	Indexed A. C. Johnson		

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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in-	40+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		27°42'		
	22	Bow	11:22	26°18'		
	23	R		25°15'		
	24	Y		24°23'		

40+00 North

30+00 North

76L298 307 8-53

76L298 307 8-53

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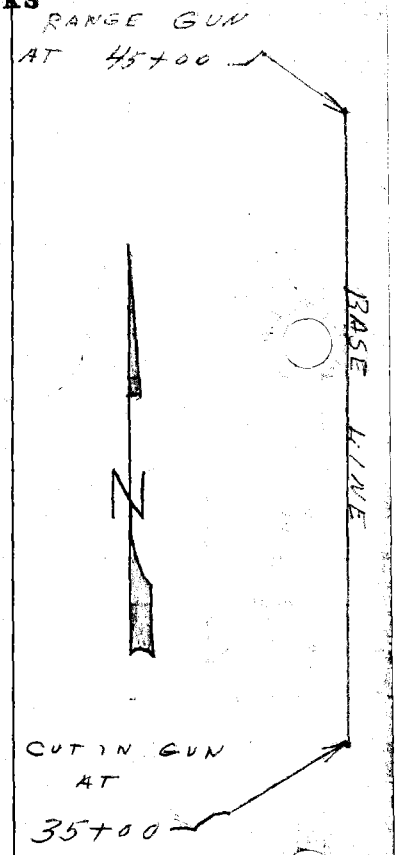
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut - in	45+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
35+00 - N	45+00 - N	1	B+W	11:47	67° 20'		
		2	R		66° 00'		
		3	Y		64° 29'		
		4	B+W	11:50	63° 1'		
		5	R		[illegible] 09'		
		6	Y		59° 46'		
		7	B+W	11:52	[illegible]		
		8	R		56° 12'		
		9	Y		50° 37'		
		10	B+W	11:54	47° 54'		
		11	R		44° 47'		
		12	Y		41° 42'		
		13	B+W	11:57	38° 27'		
		14	R		34° 46'		
		15	Y		32° 45'		
		16	B+W	11:59	31° 08'		
		17	R		28° 49'		
		18	Y		26° 41'		
		19	B+W	12:00	25° 44'		
		20	R		24° 54'		



F. B. 1504 Pg. 196 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No.
Survey by Notes Robbins Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date 12-2-53 Date Date No.

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Boat	40+00 N.
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		14.1 13.0	13.4	17 ✓	11.7 ✓	525	909
22	B+W	11:30	11.7 9.9	10.5	1.7	8.8 ✓	494	873
23	R		10.0 9.1	9.4	1.7	7.7 ✓	472	856
24	Y		9.0 8.2	8.5	17 ✓	6.8 ✓	453	837

Profile Notes Red. CEM Plotted Job No. 8412 Division No.
No. Date 1/26/54 Date Survey of [illegible]
X-Sec. Notes Chkd. Checked Survey by EDB Date 12/2/53
No. Date Date Map No. Indexed Date

F. B. 1506 PG. 197

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		Boat	45+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
1	B+W	11:47	[illegible]	27.8	1.5	26.3	2394	2756
2	R		[illegible]	27.1	1.5	25.6	2246	2608
3	Y		[illegible]	25.7	1.5	24.2	2095	2457
4	B+W	11:50	[illegible]	25.0	1.5	23.5	1964	2326
5	R		[illegible]	23.8	1.5	22.3	1815	2177
6	Y		[illegible]	23.2	1.5	21.7	1709	2071
7	B+W	11:52	[illegible]	22.8	1.5	21.3	1611	1973
8	R		[illegible]	22.5	1.4	21.1	1494	1856
9	Y		[illegible]	21.3	1.4	19.9	1218	1580
10	B+W	11:54	[illegible]	19.8	1.4	18.4	1107	1469
11	R		[illegible]	19.9	1.4	18.5	992	1354
12	Y		[illegible]	19.1	1.4	17.7	891	1253
13	B+W	11:57	[illegible]	18.2	1.4	16.8	794	1156
14	R		[illegible]	17.2	1.4	15.8	694	1056
15	Y		[illegible]	16.7	1.4	15.3	643	1005
16	B+W	11:59	[illegible]	15.7	1.4	14.3	604	966
17	R		[illegible]	13.3	1.4	11.9	550	912
18	Y		[illegible]	10.9	1.4	9.5	503	865
19	B+W	12:00	[illegible]	9.6	1.4	8.2	482	844
20	R		[illegible]	8.7	1.4	7.3	464	826

F. B. 1506 Pg. 198
Job No. 8413 Division No. Notes Red. CEM Plotted No.
Survey of [illegible] Date 1/26/54 Date X-Sec.
Survey by E.H.B. Notes 12/2/53 Notes Chkd. Checked No.
Indexed R. C. Johnson Date Date Date

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1506 Pg. 199
No.	Date	Date	Survey of BEACH EROSION STUDY		
X-Sec.	Notes Chkd.	Checked	Survey by F. H. BLANCHARD A.S.	Date 12-2-53	
No.	Date	Date	Map No.	Indexed K. C. Johnson	

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	45+00N
Inst. Sight At OR	# 21	Color Y	Time	Hor. Ang. 90°00'	Remarks	
45+00N						
55+00N						

76L298 307 8-53

76L298 307 8-53

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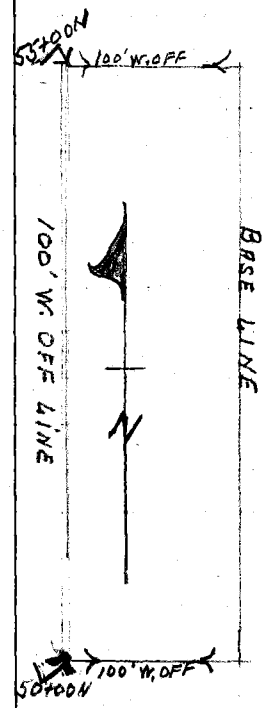
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	50+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	1	BxW	12:30	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	BxW	12:32	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	BxW	12:35	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	BxW	12:37	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
50+00N / 55+00N	13	BxW	12:39	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	BxW	12:40	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	BxW	12:41	90°00'		
	20	R		90°00'		



F.B. 1506 Pg. 200 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION Study Date Date No.
Survey by E. H. [illegible] Notes A.S. Notes Chkd. Checked X-Sec.
Indexed C. [illegible] Date Date Date No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1506 Pg. 201

X-Sec. No. _____ Date _____ Date _____ Survey of BEACH Erosion Study

Notes Chkd. _____ Checked _____ Survey by F. H. BLANCHARD Notes ER Date 12-2-53

Date _____ Date _____ Map No. _____ Indexed E. C. Johnson

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At OR	#	Color	Time	Hor. Ang.	Remarks	
	21			23°31		

761298 307 10-51

76L298 307 10-51

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ENGINEERING BLDG.

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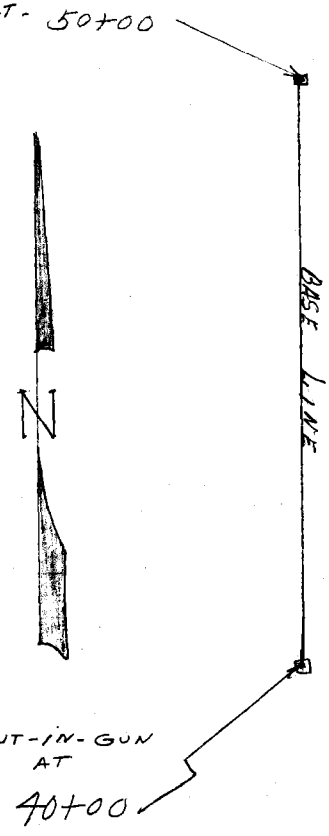
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT - IN	50+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	Sight - ON - AT - 50+00
		1	B+W	12:32	65°05'		
		2	R		62°20'		
		3	Y		60°23'		
		4	B+W	12:35	58°13'		
		5	R		56°09'		
		6	Y		53°49'		
NORTH	NORTH	7	B+W	12:37	48°51'		
		8	R		46°10'		
		9	Y		43°12'		
		10	B+W	12:39	40°02'		
		11	R		37°14'		
		12	Y		34°05'		
40+00	50+00	13	B+W	12:41	32°19'		
		14	R		31°36'		
		15	Y		31°22'		
		16	B+W	12:42	30°45'		
		17	R		29°33'		
		18	Y		28°3[illegible]'		
		19	B+W	12:43	28°3[illegible]'		
		20	R		27°33'		



B. 1506 PG. 202 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F. H. BLANCHARD Notes Robbins Notes Chkd. Checked No.
Indexed C. Johnson Date 12-2-53 Date Date

Profile	Notes Red CEM	Plotted	Job No. 8412	Division No.	F. B. 1506 Pg. 203
No.	Date 1/26/54	Date	Survey of BEACH EROSION STUDY		
X-Sec.	Notes Chkd.	Checked	Survey by EHB	Notes	Date 12/2/53
No.	Date	Date	Map No.	Indexed X C. Johnson	Date

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	45+00 N
# Color Time		Meas. Depth	Botton Tide	Adj. Depth	OM Remarks	LA
21 Y		9.0 6.2	7.1	1.4 ✓ 5.7 ✓	435	797

76L298 307 8-53

76L298 307 8-53

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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.

+341

Do not extend notes this side of this line. 454 + 01.19

STATION	B. S.	H. I.	F. S.	ELEV.		Boat	50+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM 2153 LA 2494
1	B+W	12:32	27.7 / 24.5	25.6	1.1 ✓	24.5	Rock bottom
2	R		24.6	25.1	1.1	24.0	1907 2248
3	Y		24.7 / 23.0	23.6	1.1	22.5	1759 2100
4	B+W	12:35	22.8 / 24.9	23.1	1.1	22.0	1614 1955
5	R		21.8 / 23.0	22.8	1.1	21.7	1491 1832
6	Y		21.0 / 20.9	21.7	1.0 ✓	20.7	1367 1708
7	B+W	12:37	19.2 / 21.0	19.8	1.0	18.8	1144 1485
8	R		19.0	19.7	1.0	18.7	1042 1383
9	Y		[illegible]	19.4	1.0	18.4	939 1280
10	B+W	12:39	18.0 / 17.8	18.3	1.0	17.3	840 1181
11	R		17.0	17.3	1.0	16.3	759 1100
12	Y		[illegible]	17.0	1.0	16.0	677 1018
13	B+W	12:41	16.0 / 15.5	15.5	1.0	14.5	633 974
14	R		14.1 / 13.3	14.4	1.0	13.4	615 956
15	Y		13.5 / 13.6	14.1	1.0	13.1	610 951
16	B+W	12:42	13.2 / 14.0	14.0	1.0	13.0	595 936
17	R		12.9 / 13.0	12.9	1.0	11.9	567 908
18	Y		11.8 / 11.1	11.7	1.0	10.7	543 884
19	B+W	12:43	9.9 / 11.2	10.3	1.0	9.3	544 885
20	R		8.0	9.1	1.0 ✓	8.1	522 863

7.5 10.3 — 7 10.4 13.37

F. B. 1506 Pg. 204
Job No. PWC Division No. Notes Red. CEM Plotted
Survey of PERCH GROSSING STUDY Date 1/26/54 Date
Survey by E.B. Notes 12/2/53 Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date
Profile No. X-Sec. No.

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	50+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90° 00'		
		22	BxW	12:42	90° 00'		
50+00N	100' W. OFF						
	"						
	"						
	"						
	55+00N						

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 205
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD AS. Date 12-2-53
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson

F.B. 1506 PG. 206

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

Survey of _____ Date _____ Date _____ No. _____

Survey by F. H. BLANCHARD Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed X. C. Johnson Date _____ Date _____ Date _____ No. _____

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	[illegible]	[illegible]
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		26°47'		
	22	B+W	12:44	25°53'		

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 307

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Study

Survey by F. H. BLANCHARD Notes ER Date 12-2-53

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

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

Profile
No.
X-Sec.
No.
Plotted
Date
Checked
Date
Notes Red.
Date
Notes Chkd.
Date
Division No.
Job No.
Date
Survey of
Survey by F. H. BL[illegible]
Indexed [illegible] C. [illegible]
F.B. 1506 PG. 208

76L298 307 8-53

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STATION		B. S.	H. I.	F. S.	ELEV.		Boat	50 + AON
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
21	Y		10.3 7.5	8.4	10 ✓	7.4	505	846
22	B+W	12:44	10.4 7.0	8.1	10 ✓	7.1	485	826

Profile Notes Red CEM Plotted Job No. 8412 Division No. F. B. 1506 Pg. 209
No. Date 1/26/54 Date Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. Checked Survey by EHB Notes Date 12/2/53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 210 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDY Date _____ Date _____ No. _____

Survey by EHB Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed R. C. Johnson Date _____ Date _____ Date _____ No. _____

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STATION	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

76L298 307 4-50

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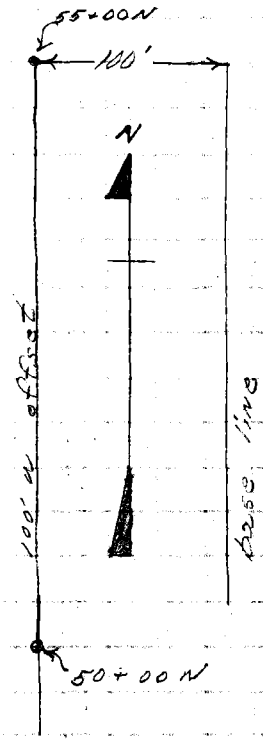
Range 55+00N

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
55+00N 100' W offset	1	B+W	7:15	90°00'
	2	R		[illegible]
	3	Y		90°00'
	4	B+W	7:20	90°00'
	5	R		90°00'
	6	Y		89°41'
	7	B+W	7:25	90°00'
	8	R		90°15'
	9	Y		90°00'
	[illegible]	B+W	7:28	90°00'
	[illegible]	R		90°00'
	12	Y		89°44'
	13	B+W	7:32	90°00'
	14	R		90°00'
	15	Y		90°00'
50+00N	16	B+W	7:35	89°45'
	17	R		90°00'
	18	Y		90°00'
	19	B+W	7:38	89°23'
	20	R		90°00'

Remarks



Profile Notes Red. ____ Plotted ____ Job No. 9112 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes D.S. Date 3 Dec 1959
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 1506 Pg. 211

761.298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	Range	55+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
55+00 N 100' W. off	50+00 N 100' W off	21	Y		90°00'		
		22	B+W	7:43	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B+W	7:53	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B+W	7:56	90°00'		
		29	R		90°06'		
		30	Y		90°00'		
		31	B+W	7:59	90°40'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B+W	8:03	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B+W	8:07	90°00'		

F. B. 1506 PG. 212

Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of Beach Erosion Study Date ____ Date ____ No. ____

Survey by E.H.B. Notes D.S. Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Johnson Date ____ Date ____ Date ____ No. ____

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STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 55+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
45+00 N BASELINE	50+00 N BASELINE	1	B&W	7:16	65°42	
		2	R		64°58	
		3	Y		63°00	
		4	B&W	7:21	61°52	
		5	R		58°57	
		6	Y		57°49	
		7	B&W	7:26	55°28	
		8	R		52°58	
		9	Y		50°39	
		10	B&W	7:29	47°19	
		11	R		45°37	
		12	Y		45°51	BOAT BACKED OUT
		13	B&W	7:33	44°20	
		14	R		42°30	
		15	Y		40°14	
		16	B&W	7:36	39°03	
		17	R		37°05	
		18	Y		35°45	
		19	B&W	7:38	34°26	
		20	R		34°07	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 213
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Date 12-3-53
No. ____ Date ____ Date ____ Map No. ____ Indexed A. C. Johnson Date ____

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F. B. 15506 Pg. 4/4 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No. Profile
Survey by [illegible] Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

CUT-IN 55+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
	21	Y		58	
	22	B&W	7:43	29	
	23	R		57	BOAT BACKED OUT
	24	Y		40	BOAT BACKED OUT
45+00N BASELINE	25	B&W	7:54	16	
	26	R		30	
	27	Y		28	
50+00N BASELINE	28	B&W	7:58	33	
	29	R		00	
	30	Y		54	
	31	B&W	8:00	10	
	32	R		08	
	33	Y		17	
	34	B&W	8:04	12	BOAT BACKED OUT
	35	R		19	
	36	Y		28	BOAT BACKED OUT
	37	B&W	8:08	14	

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BOAT 55+00

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B.W.	7:15	32.0 30.8	31.2	60 ✓	25.2	2215	2534
2	R		31.7 30.0	30.6	6.0	24.6	2141	2460
3	Y		30.6 29.7	30.0	6.0	24.0	1963	2282
4	B×W	7:20	29.8 28.9	29.2	6.0	23.2	1870	2189
5	R		28.0 27.2	27.5	6.0	21.5	1661	1980
6	Y		28.0 27.0	27.3	60	21.3	1589	1908
7	B×W	7:25	28.6 27.5	27.9	59 ✓	22.0	1453	1772
8	R		26.9 26.0	26.3	5.9	20.4	1325	1644
9	Y		26.1 [illegible]	25.6	5.9	19.7	1220	1539
10	B×W	7:28	[illegible] 25.8	25.0	5.9	19.1	1084	1403
11	R		25.8 24.0	24.6	5.9	18.7	1022	1341
12	Y		25.0 24.1	24.4	5.9	18.5	1030	1349
13	B×W	7:32	25.0 24.1	24.4	59	18.5	977	1296
14	R		25.1 24.0	24.4	58 ✓	18.6	916	1235
15	Y		23.5 22.2	22.6	5.8	16.8	846	1165
16	B×W	7:34	24.2 22.8	23.3	5.8	17.5	811	1130
17	R		24.0 22.5	23.0	5.8	17.2	755	1074
18	Y		23.6 21.5	22.2	5.8	16.4	720	1039
19	B×W	7:38	22.4 21.5	21.8	5.8	16.0	686	1005
20	R		22.0 21.1	21.4	58 ✓	15.6	677	996

Notes Red Cut Plotted Job No. [illegible] Division No. F. B. 1506 Pg. 215
Date Survey of [illegible] STUDY
Checked Survey by EHB Notes Date 12-3-53
Date Map No. Indexed C. Johnson

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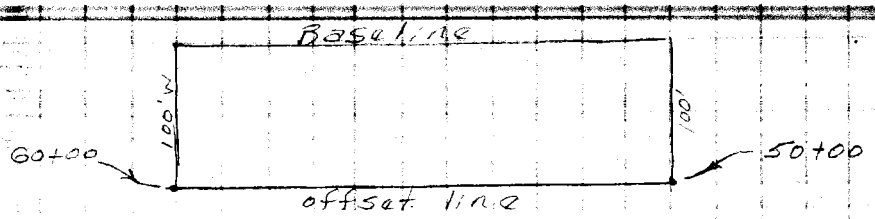
F. B. 1506 Pg. 216 Job No. 2443 Division No. Notes Red. CEM Plotted No.
Survey of 23 & 25 Date 1/26/54 Date No.
Survey by C. Johnson Notes Chkd. Checked
Indexed Date 12/3/53 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		5570ON	
#	Color	Time	Depth	Bottom Tide		Adj. Depth	SM	Remarks	LA
21	Y		21.0 20.0	20.3	5.8	14.5	649		968
22	B/W	7:42	20.3 18.6	19.2	5.8	13.4	612		931
23	R		19.6 19.7	19.7	5.7	14.0	624		943
24	Y		21.0 20.6	20.7	5.7	15.0	666		985
25	B/W	7:52	19.1 18.6	18.8	5.7	13.1	607		926
26	R		17.1 16.8	17.2	5.6	11.6	573		892
27	Y		16.8 15.9	16.2	5.6	10.6	565		884
28	B/W	7:57	16.0 14.0	14.7	5.6	9.1	544		863
29	R		14.1 13.0	13.4	5.6	7.8	532		851
30	Y		13.3 12.7	12.9	5.6	7.3	507		826
31	B/W	8:00	13.8 12.5	12.7	5.6	7.1	491		810
32	R		12.3 12.0	12.4	5.5	6.9	491		810
33	Y		12.1 10.0	10.7	5.5	5.2	462		781
34	B/W	8:04	12.0 10.5	10.7	5.5	5.2	471		790
35	R		9.2 8.6	8.8	5.5	3.3	431		750
36	Y		10.2 8.0	8.7	5.5	3.2	434		753
37	B/W	8:07	8.8 8.2	8.7	5.5	3.2	430		749
38	R								

F. B. 1506 Pg. 217

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by F.H.B. Notes E.K. Date 12-3-63 Map No. ____ Indexed C. Johnson



Range 60+00 N

Remarks

New man on motor reason for so many angles

Inst. Sight At	Inst. Sight On	B.S.	H.I.	F.S.	ELEV.	Time Hor. Ang.
		1	B&W	8:51	90°15'	
		2	R		90°19'	
		3	Y		90°00'	
		4	B&W	8:58	89°45'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	9:02	90°00'	
		8	R		89°46'	
		9	Y		90°19'	
		10	B&W	9:11	91°00'	
		11	R		90°00'	
		12	Y		91°02'	
		13	B&W	9:14	90°00'	
		14	R		90°17'	
		15	Y		90°00'	
		16	B&W	9:19	90°00'	
		17	R		90°00'	
		18	Y		89°27'	
		19	B&W	9:22	90°00'	
		20	R		90°00'	

50+00 N 100' W off

60+00 N 100' W off

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STATION	B. S.	H. I.	F. S.	ELEV.	Range 60+00N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
60+00N 100' W off / 50+00N 100' W off	21	Y		90°00'	
	22	B&W	9:24	89°15'	
	23	R		90°00'	
	24	Y		90°00'	
	25	B&W	9:27	90°00'	
	26	R		90°00'	
	27	Y		90°00'	
	28	B&W	9:33	90°00'	
	29	R		90°00'	Broke sounding Chain
	30	Y		90°00'	
	31	B&W	1058	90°[illegible]	
	32	R		90°[illegible]	

F. B. 1506 PG. 218
Job No. 842 Division/No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No.
Survey by F.H.B. Notes E.R. Notes Chkd. Checked X-Sec.
Indexed [redacted] C. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 60+00N	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
50+00 N BASELINE	55+00N BASELINE	1	B&W	8:50	57°26		
		2	R		66°13		
		3	Y		64°48		
		4	B&W	8:58	62°45		
		5	R		60°54		
		6	Y		59°59		
		7	B&W	9:02	57°58		
		8	R		56°55		
		9	Y		53°48		
		10	B&W	9:09	50°38		
		11	R		49°03		
		12	Y		47°44		
		13	B&W	9:14	46°00		
		14	R		42°59		
		15	Y		40°12		
		16	B&W	9:19	39°31		
		17	R		37°13		
		18	Y		33°18		
		19	B&W	9:22	32°10		
		20	R		31°21		

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1506 Pg. 2/4
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Note J.M.U. Date 12-3-53
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson

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F.B. 1506 Pg. 220 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by [illegible] Notes J.M.U. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	COT-IN 60+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		31° 3	
	22	B&W	9:24	30° 38	
	23	R		37° 5	
	24	Y		28° 1	
60+00N BASELINE	25	B&W	9:27	27° 15	
	26	R		29° 25	BOAT BACKED OUT
	27	Y		29° 29	
55+00N BASELINE	28	B&W	9:33	30° 17	BOAT BACKED OUT
	29	R	10:51	37° 25	
	30	Y		35° 42	
	31	B&W	10:56	26° 26	
	32	R		25° 22	

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat		60+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM	Remarks LA
1	B&W	8:49	32.0 30.7	31.1	49	26.2	2406	2704
2	R		31.0 29.0	29.7	48	24.9	2269	2567
3	Y		30.9 28.9	29.3	48	24.5	2125	2423
4	B&W	8:57	28.1 27.2	27.5	47	22.8	1942	2240
5	R		28.1 26.8	27.2	4.7	22.5	1797	2095
6	Y		28.0 26.7	27.1	4.7	22.4	1731	1896
7	B&W	9:01	26.3 25.5	25.8	47	21.1	1598	1833
8	R		27.0 25.3	25.9	46	21.3	1535	1664
9	Y		25.7 24.6	25.0	46	20.4	1366	1517
10	B&W	9:08	25.0 23.1	23.7	45	19.2	1219	1450
11	R		23.3 21.8	22.3	4.5	17.8	1152	1398
12	Y		23.1 22.8	22.9	4.5	18.4	1100	1334
13	B&W	9:13	23.5 22.1	22.6	45	18.1	1036	1230
14	R		22.3 21.4	21.7	44	17.3	932	1143 Rocky Bottom
15	Y		22.0 20.5	21.0	4.4	16.6	845	1123
16	B&W	9:17	22.7 21.8	22.1	4.4	17.7	825	1058
17	R		22.0 20.7	21.1	4.4	16.7	760	955
18	Y		19.1 17.8	18.2	44	13.8	657	927
19	B&W	9:20	18.5 16.0	16.8	43	12.5	629	907
20	R		16.0 14.8	15.2	43	10.9	609	904

Profile Notes Red CEM Plotted Job No. 2412 Division No.
No. Date 1/26/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey by EHB Notes Date 12/3/53
No. Date Date Map No. Indexed C. Johnson

F. B. 1506 Pg. 221

76L298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

60+00

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LX
22	Y		16.0 14.2	14.8	4.3	10.5	606	904
22	B+W	9:23	15.0 14.0	14.3	4.3	10.0	592	890
23	R		14.0 13.0	13.3	4.3	9.0	560	858
24	Y		13.0 12.0	12.3	4.3	8.0	547	845
25	B+W	9:25	12.0 11.0	11.3	[illegible]	7.0	526	824
26	R		14.0? 12.8	13.2?	4.2	9.0?	564	862
27	Y		13.9 12.0	12.6	4.2	8.4	554	852
28	B+W	9:32	14.0 13.0	13.3	4.2	9.1	584	882 line broke
29	R	10:50	20.0 18.9	19.3	2.5	16.8	812	1110 repaired
30	Y		17.0 15.1	15.7	2.5	13.2	642	940
31	B+W	10:55	11.0 9.0	9.7	2.4	7.3	497	795
32	R	~~10:55~~	7.2 5.8	6.3	2.4	3.9	467	765
33	Y							
34								

F. B. 1506 PG. 222 Job No. 84[illegible] Division No. Notes Red. CEM Plotted Profile
Survey of [illegible] Date 1/26/54 Date No. X-Sec.
Survey by [illegible] Notes 12/3/53 Notes Chkd. Checked
Indexed X C. Johnson Date Date No.

76L298 307 4-50

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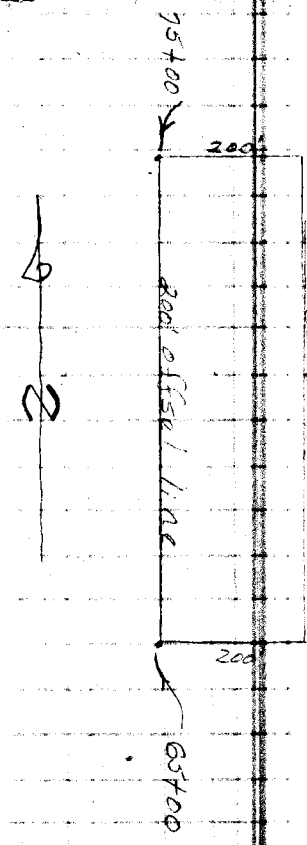
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 65+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
65+00N 200'W of	1	B&W	11:13	91° 05'	
	2	R		90° 00'	
	3	Y		90° 00'	
	4	B&W	11:17	89° 22'	
	5	R		90° 00'	
	6	Y		90° 00'	
	7	B&W	11:23	89° 48'	
	8	R		90° 00'	
	9	Y		90° 00'	
	10	B&W	11:25	90° 10'	
	11	R		90° 00'	
	12	Y		90° 00'	
	13	B&W	11:32	90° 00'	
	14	R		90° 00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Notes J.C.G. Date 12-13-53
No. ____ Date ____ Date ____ Map No. ____ Index ____ Date ____

F. B. 1506 Pg. 225

76L298 307 4-50

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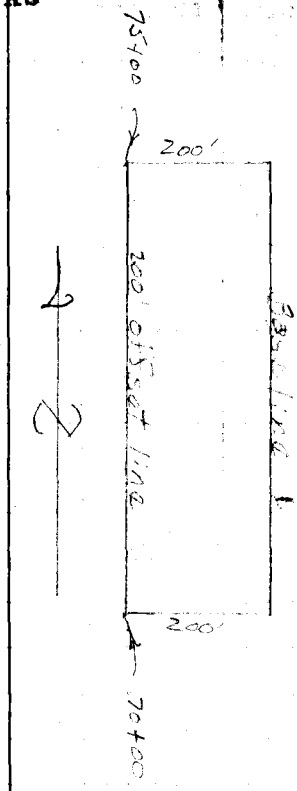
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 70+00 N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
70+00 N 200' W. off. / 75+00 N 200' W. off.	1	B&W	11:51	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	11:57	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	12:00	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	12:04	90°00'	
		R		90°00'	
	12	Y		90°00'	
	13	B&W	12:09	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	12:12	90°00'	
	17	R		90°00'	



F. B. 1506 Pg. 224

Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Study Date Date No. X-Sec.

Survey by E.H.B. Notes J.C.G. Notes Chkd. Checked

Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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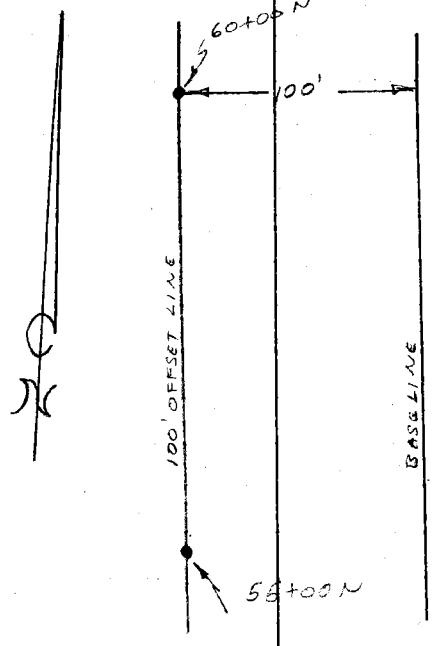
Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____
No.____ Date____ Date____ Survey of F. H. BLANCHARD and J. M. U. Date 12-3-53
X-Sec. Notes Chkd.____ Checked____ Survey by____
No.____ Date____ Date____ Map No.____ Indexed C. Johnson
F. B. 1506 Pg. 235

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On	#	Color	Time	Hor. Ang.
	1	B&W	11:14	66° 32
	2	R		63° 17
	3	Y		59° 53
	4	B&W	11:18	56° 39
	5	R		53° 04
	6	Y		49° 26
	7	B&W	11:23	45° 27
	8	R		39° 54
	9	Y		36° 09
	10	B&W	11:26	33° 06
	11	R		28° 40
	12	Y		26° 36
	13	B&W	11:33	23° 40
	14	R		22° 37

CUT-IN 60+00N

Remarks



55+00 N 100' OFFSET

60+00 N 100' OFFSET

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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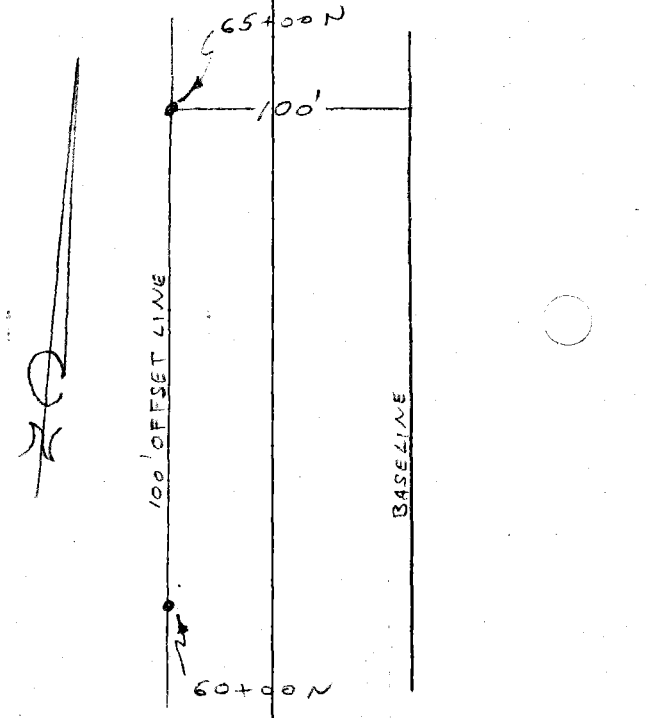
Do not extend notes this side of this line.

F.B. 1506 Pg. 226 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No.
Survey by [illegible] Notes U.S.M.C. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On	#	Color	Time	Hor. Ang.
	1	B&W	11:52	6[illegible]
	2	R		61° 33
	3	Y		56° 35
60+00N 100' OFFSET / 65+00N 100' OFFSET	4	B&W	11:58	5[illegible]
	5	R		55° 32
	6	Y		51° 10
	7	B&W	12:02	50° 06
	8	R		4[illegible]
	9	Y		4[illegible]
	10	B&W	12:05	4[illegible]
	11	R		3[illegible]
	12	Y		3[illegible]
	13	B&W	12:10	30° 20
	14	R		2[illegible]
	15	Y		2[illegible]
	16	B&W	12:13	2[illegible]
	17	R		2[illegible]

COT-IN 70+00N

Remarks



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

Do not extend notes this side of this line. 469 + 02.58 +276

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		65+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	SM Remarks	LA
1	B+W	11:13	28.0 27.0	27.3	19	25.4	2404	2680
2	R		26.1 24.9	25.3	19	23.4	2087	2363
3	Y		25.0 24.0	24.3	19	22.4	1824	2100
4	B+W	11:17	23.6 22.1	22.6	18	20.8	1619	1895
5	R		23.4 21.8	22.3	18	20.5	1430	1706
6	Y		21.6 19.7	20.3	18	18.5	1268	1544
7	B+W	11:22	22.0 19.0	20.0	17	18.3	1047	1323
8	R		19.8 18.0	18.6	17	16.9	936	1212
9	Y		19.2 17.8	18.3	17	16.6	831	1107
10	B+W	11:25	18.2 15.8	17.3	17	15.6	752	1028
11	R		14.0 12.8	13.2	16	11.6	647	923
12	Y		11.8 9.8	11.1	16	9.5	601	877
13	B+W	11:32	9.2 8.9	9.0	15	7.5	538	1814
14	R		7.8 6.6	7.0	15	5.5	517	793
15	Y							
16	B+W							
17	R							
18	Y							
19	B+W							
20	R							

Profile Notes Red. CEM Plotted Job No. 2412 Division No. F. B. 1506 Pg. 227
No. Date 1/26/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey by EHB Notes RS Date 12-3-53
No. Date Date Map No. Indexed C. Johnson Date

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726 Los Angeles County Engineering Bldg.

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+226

Do not extend notes this side of this line. 474+07.04

F. B. 1506 Pg. 228 Job No. 8413 Division No. Notes Red. CEM Plotted No.
Survey of Rivers Date 1/26/54 Date
Survey by L. C. Johnson Notes Chkd. Checked
Indexed L. C. Johnson Notes 12/3/53 Date Date
Profile X-Sec.

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	SM	Remarks	L.A.
							Bott		70+00N	
1	B×W	11:50		26.9 / 25.0	25.6	1.2 ✓	24.4	2149		2375
2	R			25.5 / 24.0	24.5	1.2	23.3	1946		2172
3	Y			23.9 / 21.9	22.7	1.1 ✓	21.6	1759		1985
4	B×W	11:56		23.6 / 22.6	22.6	1.1	21.5	1659		1885
5	R			21.8 / 20.9	21.2	1.1	20.1	1557		1783
6	Y			21.5 / 20.0	20.5	1.1	19.4	1435		1661
7	B×W	12:00		19.8 / 18.8	19.5	1.0 ✓	18.5	1296		1522
8	R			19.0 / 18.9	18.3	1.0	17.3	1118		1344
9	Y			19.1 / 18.5	18.2	1.0	17.2	1028		1254
10	B×W	12:03		20.0 / 16.8	17.9	1.0	16.9	551		1177
11	R			18.0 / 16.1	16.7	1.0	15.7	870	Rocky Bottom	1096
12	Y			16.6 / 15.6	15.6	0.7 ✓	14.7	768		994
13	B×W	12:09		12.1 / 11.6	11.8	0.9	10.9	685		911
14	R			11.9 / 9.3	10.2	0.9	9.3	654		880
15	Y			9.8 / 9.0	9.2	0.9	8.3	624		850
16	B×W	12:11		9.0 / 8.3	8.3	0.9	7.4	611		837
17	R			10.8 / 7.5	7.8	0.7 ✓	6.9	607		833
18	Y									
19	B×W	12:								
20	R									

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1506 Pg. 229
No.	Date	Date	Survey of Beach Erosion Study		
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes E.R.	Date 12-3-53
No.	Date	Date	Map No.	Indexed R. C. Johnson	

Base line

250' offset line

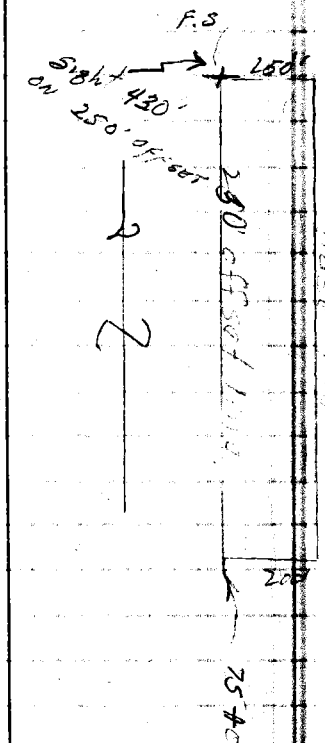
75+00

F.S.

Sight 430' on 250' offset

Range 75+00 N

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On		# Color	Time Hor. Ang.		
	1	B&W	12:35	90°25'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	12:37	90°00'	
	5	R		90°00'	
	6	Y		89°00'	
	7	B&W	12:40	90°00'	
	8	R		90°14'	
	9	Y		90°00'	
	10	B&W	12:42	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	12:45	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	12:47	90°00'	
	17	R		90°00'	



65+00 N 250 W. off.

75+00 N 250' W. off.

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76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Range	75+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

F. B. 1506 Pg. 230
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by E.H.B. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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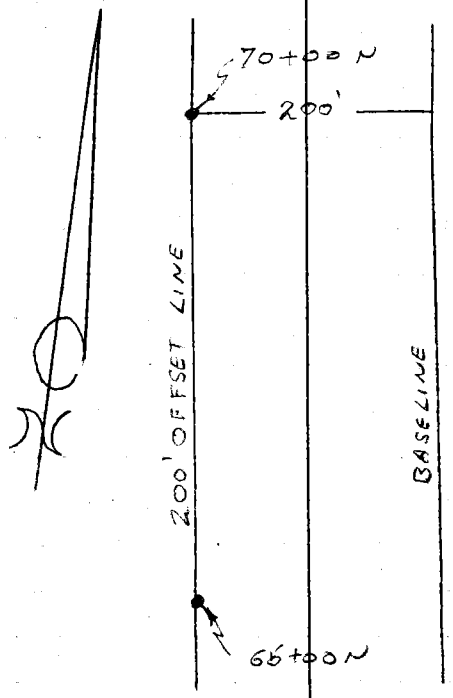
Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD
No. Date Date Map No. Indexed C. Johnson Date 12-3-53
F. B. 1506 Pg. 73

CUT-IN 75+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
	1	B&W	12:35	62°08	
	2	R		58°37	
	3	Y		57°07	
	4	B&W	12:38	54°52	
	5	R		52°29	
	6	Y		50°44	
	7	B&W	12:41	47°22	
	8	R		44°42	
	9	Y		42°01	
	10	B&W	12:43	39°15	
	11	R		37°07	
	12	Y		34°42	
	13	B&W	12:45	32°20	
	14	R		29°37	
	15	Y		27°15	
	16	B&W	12:46	25°23	
	17	R		23°59	

65+00N 200' OFFSET

70+00N 200' OFFSET



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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks

F. B. 1506 Pg. 232
Survey of BEACH EROSION STUDIES
Survey by K. C. Johnson
Indexed
Job No. 8412 Division No.
Notes Red. Date Plotted Date
Notes Chkd. Date Checked Date
Notes Date
Profile No.
X-Sec. No.

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		75100N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B x W	12:34	27.0 / 25.0	25.7	0.6	25.1	2190	2190
2	R		24.1 / 22.0	22.7	0.6	22.1	1839	1938
3	Y		22.1 / 21.0	21.4	0.6	20.8	1747	1846
4	B x W	12:37	21.8 / 20.5	20.9	0.6	20.3	1621	1720
5	R		21.2 / 19.0	19.7	0.6	19.1	1502	1601
6	Y		20.0 / 18.0	18.7	0.6	18.1	1423	1522
7	B x W	12:39	19.0 / 17.7	18.3	0.6	17.7	1286	1385
8	R		17.9 / 17.1	17.4	0.6	16.8	1190	1289
9	Y		[illegible]	16.8	0.6	16.2	1101	1200
10	B x W	12:42	16.1 / 15.8	15.9	0.5	15.4	1007	1106
11	R		16.2 / 15.8	15.9	0.5	15.4	957	1956 Rocky Bottom
12	Y		17.2 / 16.0	16.4	0.5	15.9	892	991
13	B x W	12:44	16.0 / 14.8	15.2	0.5	14.7	833	932
14	R		14.5 / 12.5	13.2	0.5	12.7	768	867
15	Y		11.3 / 10.4	10.7	0.5	10.2	715	814
16	B x W	12:45	9.0 / 7.8	8.2	0.5	7.7	674	773
17	R		8.2 / 6.5	7.1	0.5	6.6	645	744
18	Y							
19	B x W	12:						
20	R							

Profile No. ____ Notes Red. CEM Plotted ____ Job No. 7412 Division No. ____ F. B. 1506 Pg. 233
X-Sec. No. ____ Date 1/26/54 Date ____ Survey of [illegible]
Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 12-3-53
Date ____ Date ____ Map No. ____ Indexed C. Johnson

F. B. 1506 Pg. 234 | Job No. 245 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDY | Date | Date | No.

Survey by F&B | Notes A.S. | Notes Chkd. | Checked | X-Sec.

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

761.298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
# Color Time		Meas. Depth	Bottom Tide			

76F3095 247 4-53

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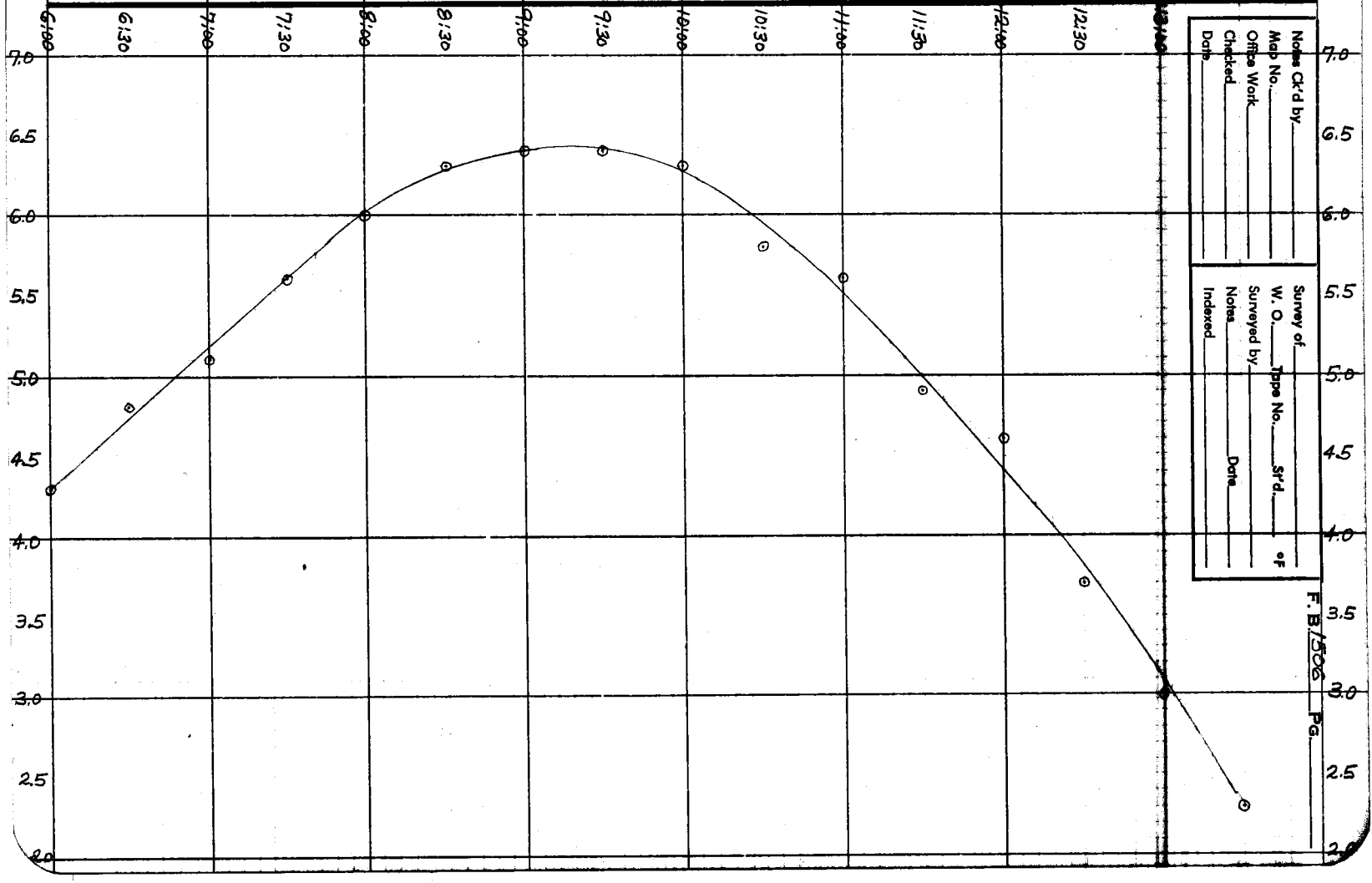
December 8, 1953



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

Survey of
W. O. Tape No. Sr'd
Surveyed by
Notes
Date
Indexed

F. B. 1506 Pg.

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F. B. _____ PG. _____

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

F. B. 1586 Pg. 33

TIDE GAGE

STANDARD TIME

12-8-53

TIME	GAGE
6 00	4.3
6 30	4.8
7 00	5.1
7 30	5.6
8 00	6.0
8 30	6.3
9 00	6.4
9 30	6.4
10 00	6.3
10 30	5.8
11 00	5.6
11 30	4.9
12 00	4.6
12 30	3.7
1 00	3.0
1 30	2.3

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76F3095 247 4-53

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F.B. 1506 PG. 230

76L298 307 10-51

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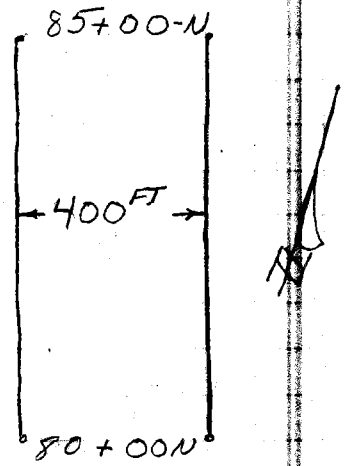
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	80+00-N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
80+00N 400'W off. / 85+00N 400'W off.	1	B&W	7:25	90° 00'		85+00-N
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B&W	7:29	90° 00'		
	5	R		90° 00'		400 FT
	6	Y		90° 00'		
	7	B&W	7:36	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B&W	7:40	90° 00'		80+00N
	11	R		90° 00'		
	12	Y		90° 00'		
	13	B&W	7:44	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B&W	7:49	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B&W	7:53	90° 00'		
	20	R		90° 00'		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 237

X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD E.R. Date 12-8-53

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1506 PG. 238 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by F. [illegible] Notes E.R. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Range	80+00N
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks	
80+00 N. 400'W. off.	21	Y		90°00'		
85+00 N 400'W. off.	22	B&W	7:56	[illegible]		
	23	R		[illegible]		
	24	Y		[illegible]		
	25	B&W	8:00	[illegible]		
	26	R		[illegible]		

76L298 307 10-51

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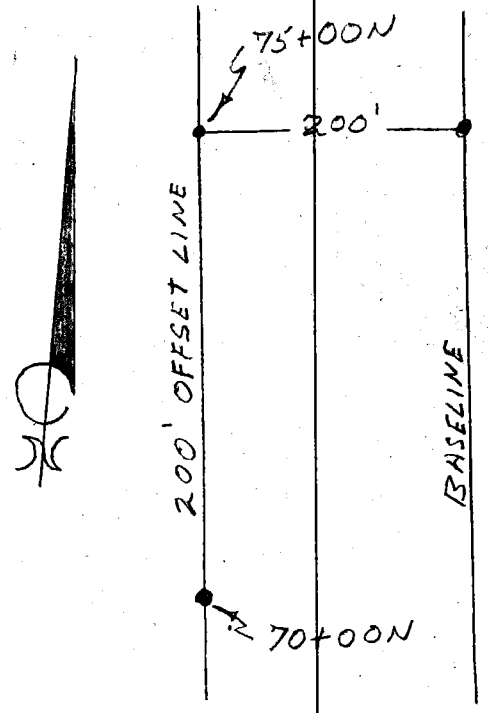
CUT-IN 80+00N

STATION	B. S.	H. I.	F. S.	ELEV.
Test Sight	#	Color	Time	Hor. Ang.
70+00N 200' OFFSET	1	B&W	7:26	69°29
	2	R		68°21
	3	Y		66°04
	4	B&W	7:29	63°20
	5	R		59°29
	6	Y		55°42
75+00N 200' OFFSET	7	B&W	7:36	52°42
	8	R		49°18
	9	Y		45°37
	10	B&W	7:39	42°26
	11	R		42°54
	12	Y		39°40
	13	B&W	7:44	35°47
	14	R		33°55
	15	Y		32°07
	16	B&W	7:49	30°09
	17	R		28°46
	18	Y		27°48
	19	B&W	7:53	26°06
	20	R		25°43

Remarks



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 239

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd. ____ Checked ____ Survey by F.H. BLANCHARD JRO Date 12-8-53

Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1508 Pg. 2240 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. Notes JRO Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
70+00-N 200 FT OFF	21	Y		24°50	CUT-IN	80+00
75+00-N 200 FT OFF	22	B&W	7:56	24°[illegible]		
	23	R		25°40		
	24	Y		23°[illegible]		
	25	B&W	8:00	22°22		
	26	R		21°10		

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-28

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat		80+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B&W	7:26	33.0 31.9	32.3	55	26.8	2872	2844
2	R		34.0 31.9	32.6	55	27.1	2719	2691
3	Y		32.1 31.0	31.4	56	25.8	2453	2425
4	B&W	7:28	31.4 30.0	30.5	56	24.9	2191	2163
5	R		28.0 27.2	27.5	56	21.9	1897	1869
6	Y		25.3 24.9	25.0	57	19.3	1666	1638
7	B&W	7:36	23.8 23.0	23.3	5.7	17.6	1513	1485
8	R		24.3 22.9	23.4	5.7	17.7	1363	1335
9	Y		23.0 21.7	22.1	5.7	16.4	1222	1194
10	B&W	7:40	22.6 21.8	22.1	57	16.4	1114	1086
11	R		22.1 20.9	21.3	58	15.5	1129	1101
12	Y		20.5 20.8	21.2	5.8	15.4	1029	1001
13	B&W	7:45	19.7 20.3	20.1	5.8	14.3	921	893
14	R		17.8 19.2	18.6	58	12.8	872	844
15	Y		17.0 16.0	17.7	59	11.8	828	800
16	B&W	7:49	14.9 15.1	15.3	5.9	9.4	781	753
17	R		12.9 14.0	13.6	5.9	7.7	749	721
18	Y		12.8 11.4	13.2	5.9	7.3	727	699
19	B&W	7:52	11.0 12.0	11.1	5.9	5.2	690	662
20	R		11.0	11.3	59	5.4	682	652

Profile No. ____ Date 1/26/54 Notes Red CEM Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of Bench Erosion Studies

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by EKA Notes A.S. Date 12-8-53 Map No. ____ Indexed C. Johnson Date ____

F.B. 1506 Pg. 241

F.B. 1506 Pg 24 Job No. 8412 Division No. Notes Red. CEM Plotted
Survey of Beach Erosion Sta 6 Date 1/26/54 Date
Survey by E.H.B. Notes A.S. Notes Chkd Checked
Indexed R. C. Johnson Date 12-8-53 Date Date
Profile No. X-Sec. No.

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Boat 80+00N

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks SM	Remarks LA
21	Y		11.3 10.0	10.4	6.0 ✓	4.4	663	635
22	B×W	7:58	10.6 9.0	9.5	6.0	3.5	657	629
23	R		12.2 10.0 ?	10.7	6.0	4.7	681	653
24	Y		10.2 8.8	9.3	6.0	3.3	637	609
25	B×W	8:00	9.1 7.6	8.1	6.0	2.1	611	583
26	R		8.2 7.8	7.9	6.0 ✓	1.9	589	561
27								

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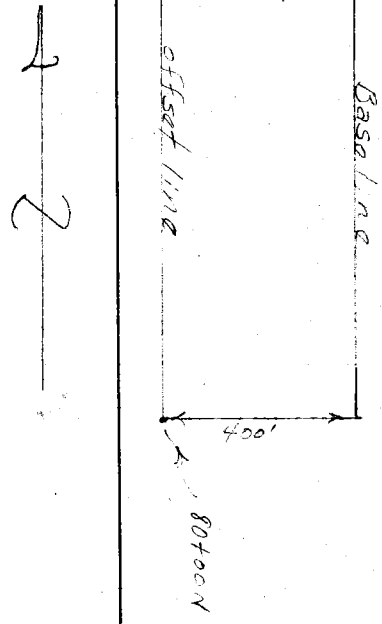
Santa Monica Base Line

STATION		B. S.	H. I.	F. S.	ELEV.	Range	85+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
85+00N 400' W. off.	80+00N 400' W. off.	1	B&W	8:21	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B&W	8:26	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	8:29	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	8:33	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B&W	8:35	90° 00'		
		14	R		89° 28'		
		15	Y		90° 00'		
		16	B&W	8:39	90° 00'		
		17	R		90° 00'		



Profile
Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD J.C.G. Date 12-8-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

F.B. 1506 Pg. 243

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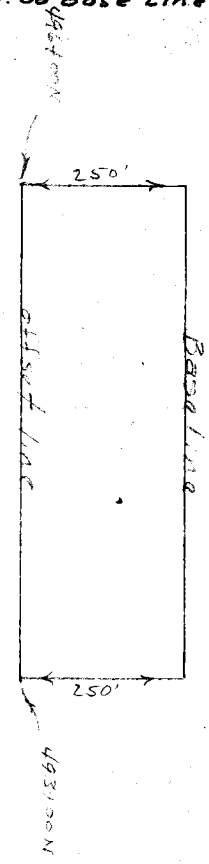
STATION		B. S.	H. I.	F. S.	ELEV.	Range	493+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	L.A. Co Base Line Sta.
493+00 N 250'W off	496+00 N 250'W off	1	B&W	9:27	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B&W	9:31	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	9:34	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	9:38	90° 00'		
		11	R		90° 00'		
		12	Y		90° 58'		
		13	B&W	9:41	90° 00'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B&W	9:44	90° 00'		
		17	R		90° 00'		



F.B. 1506 PG 244 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F. H. BLANCHARD Notes E.R. Notes Chkd. Checked No.
Indexed K. C. Johnson Date 12-8-53 Date Date

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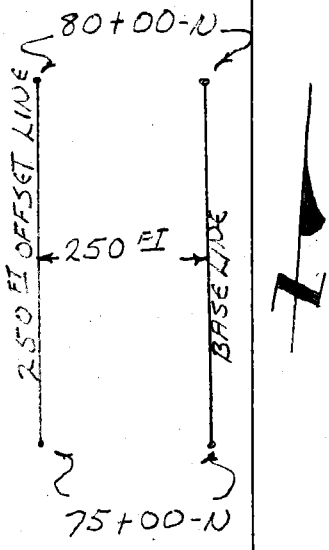
Santa Monica Base Line

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	85+00-N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
75+00 250 FI OFF / 80+00 250 FI OFF	1	B&W	8:21	66°38		
	2	R		64°18		
	3	Y		58°05		
	4	B&W	8:26	56°36		
	5	R		52°40		
	6	Y		49°35		
	7	B&W	8:30	45°51		
	8	R		42°44		
	9	Y		39°18		
	10	B&W	8:33	35°37		
	11	R		33°48		
	12	Y		31°37		
	13	B&W	8:36	30°06		
	14	R		29°05		
	15	Y		27°54		
	16	B&W	8:39	27°07		
	17	R		23°04		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 3 241

X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd ____ Checked ____ Survey by [illegible] Date 12-8-53

No. ____ Date ____ Date ____ Map No. ____ Date ____

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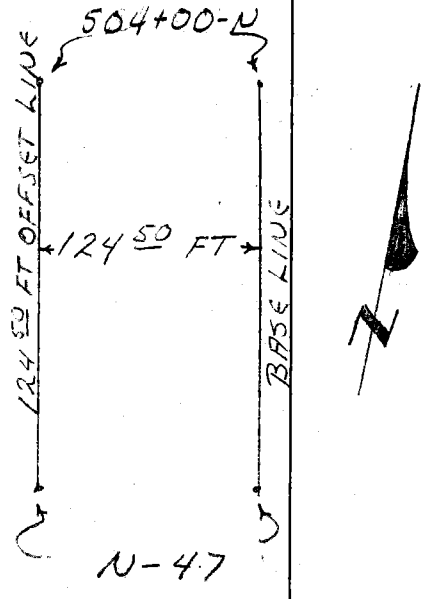
STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	493+00-N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
504+00-N 124.50 FT OFF	1	B&W	9:27	62°41		
	2	R		60°19		
	3	Y		57°26		
	4	B&W	9:31	53°53		
	5	R		49°38		
	6	Y		46°[illegible]		
	7	B&W	9:34	43°[illegible]		
	8	R		41°[illegible]		
	9	Y		39°[illegible]		
N-47 124.50 FT OFF	10	B&W	9:38	36°[illegible]		
	11	R		33°26		
	12	Y		31°[illegible]		
	13	B&W	9:41	29°[illegible]		
	14	R		28°40		
	15	Y		27°[illegible]		
	16	B&W	9:44	24°[illegible]		
	17	R		22°[illegible]		



F.B. 1506 Pg. 2/6 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by J. H. [illegible] Notes OBEN Notes Chkd. Checked No.
Indexed R. C. Johnson Date Date

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-140

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Santa Monica Base Line

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		85+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks SM	LA
1	B.W.	8:21	32.5 31.6	31.9	62 ✓	25.7	2565	2425
2	R		31.8 30.7	31.1	62	24.9	2328	2188
3	Y		28.0 26.9	27.3	63 ✓	21.0	1856	1716 Rocky Bottom
4	B.W.	8:26	27.0 26.0	26.3	6.3	20.0	1767	1627
5	R		26.0 24.3	24.9	6.3	18.6	1561	1421
6	Y		23.3 22.5	22.8	6.3	16.5	1424	1284
7	B.W.	8:30	22.7 21.3	21.8	6.3	15.5	1280	1140
8	R		21.3 20.0	20.4	6.3	14.1	1174	1034
9	Y		20.2 19.0	19.4	6.3	13.1	1068	928
10	B.W.	8:32	18.2 17.0	17.4	6.3	11.1	966	826
11	R		16.1 15.8	15.9	6.3	9.6	919	779
12	Y		13.8 13.0	13.3	6.3	7.0	866	726
13	B.W.	8:36	12.3 11.8	12.0	6.3	5.7	830	690
14	R		12.5 11.0	11.5	6.3	5.2	806	666
15	Y		10.3 10.0	10.1	6.3	3.8	779	639
16	B.W.	8:39	10.2 9.0	9.4	6.3	3.1	762	622
17	R		8.5 6.5	6.8	63 ✓	0.5	676	536
18	Y							
19	B.W.							
20	R							

Profile
No. ____ Date 1/26/54 Notes Red CEM Plotted ____ Date ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies
Survey by E.H.B. Notes B.S. Date 12-8-53
Map No. ____ Date ____ Indexed S. Johnson Date ____

F.B. 1506 Pg. 247

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat		493+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj.	Depth	Remarks
1	B&W	9:27	32.9 31.4	31.9	6.4 ✓	25.5	2210	
2	R		31.6 30.9	31.1	6.4	24.7	2004	
3	Y		29.7 28.3	28.8	6.4	22.4	1790	
4	B&W	9:31	27.0 26.0	26.3	6.4	19.9	1569	
5	R		25.3 24.0	24.4	6.4	18.0	1351	
6	Y		23.8 23.0	23.3	6.4	16.9	1225	
7	B&W	9:35	22.0 21.2	21.5	6.4	15.1	1110	
8	R		21.0 17.8	18.9	6.4	12.5	1017	Rocky Bottom
9	Y		18.4 16.9	17.4	6.4	11.0	961	
10	B&W	9:39	17.5 16.0	16.5	6.4	10.1	880	
11	R		16.1 14.8	15.2	6.4	8.8	772	
12	Y		15.0 13.0	13.7	6.4	7.3	720	
13	B&W	9:42	14.0 12.8	13.2	6.4	6.8	670	
14	R		11.5 10.9	11.1	6.4	4.7	643	
15	Y		11.9 10.0	10.6	6.4	4.2	607	
16	B&W	9:45	10.0 7.9	8.6	6.4	2.2	530	
17	R		7.2 6.0	6.4	6.4 ✓	0.0	493	
18	Y							
19	B&W							
20	R							

F.B. 1506 PG 248 Job No. 8412 Division No. Notes Red. CEM Plotted No. Profile
Survey of Beach Erosion Study Date 1/26/54 Date X-Sec.
Survey by F.H.B. Notes A.S. 12/8/53 Notes Chkd. Checked No.
Indexed R. C. Johnson Date Date Date

76L298 307-10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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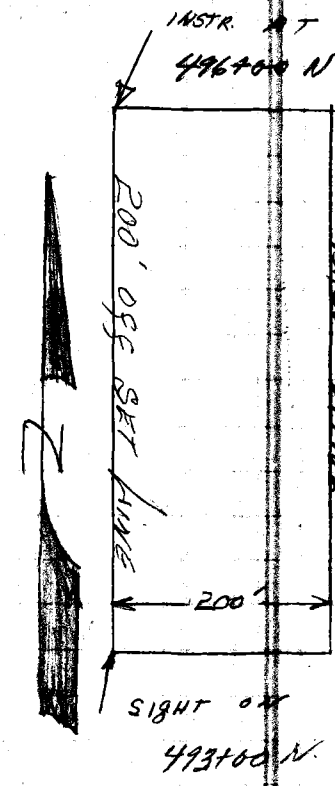
Do not extend notes this side of this line.

L. A. City Base Line

STATION		B. S.	H. I.	F. S.	ELEV.	Range	496+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
496+00 N	493+00 N 250' W off	1	B&W	10:05	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	10:08	89°50'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	10:11	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	10:13	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	10:15	90°00'		
		14	R		90°00'		
		15	Y		89°40'		
		16	B&W	10:16	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	10:18	90°00'		
		20	R		90°00'		



Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
No. ____ Date ____ Date ____ Survey by F. H. BLANCHARD L.R. Date 12-8-53
Map No. ____ Indexed C. Johnson Date 1

F.B. 1506 Pg. 249

F.B. 1506 Pg. 250 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F. R. BLANCHARD Notes Robbins Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date 12 8 53 Date Date No.

496+00 N 250 off

493+00 N

STATION	B.S.	H.I.	F.S.	ELEV.	Range	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	496+00 N
	21	Y		90°00'		
	22	B&W	10:20	89°58'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	10:23	90°00'		
	26	R		90°00'		

76L298 307 10-51

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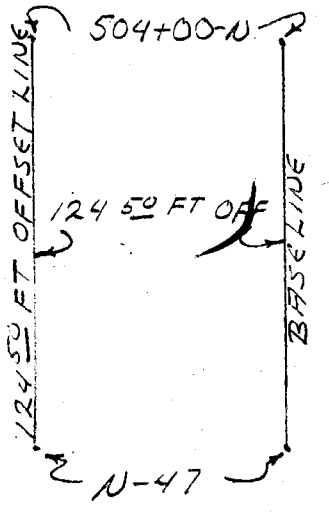
L.A. City Base Line

CUT-IN : 496+00-N

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
504+00-N - 124.5 FT OFF	1	B & W	10:04	67°47
	2	R		69°05
	3	Y		64°56
	4	B & W	10:08	63°14
	5	R		61°44
	6	Y		59°58
	7	B & W	10:11	57°51
	8	R		56°11
	9	Y		54°42
N-47 - 124.5 FT OFF	10	B & W	10:12	53°21
	11	R		52°28
	12	Y		51°24
	13	B & W	10:14	49°29
	14	R		48°07
	15	Y		45°56
	16	B & W	10:16	44°27
	17	R		43°12
	18	Y		41°33
	19	B & W	10:18	40°30
	20	R		38°34

Remarks



Profile
Notes Red _____ Platted _____ Job No. 8412 Division No. _____
No. _____ Date _____ Date _____ Survey of BASIC SURVEY - TRAVERSE
X-Sec. _____ Notes Chkd. _____ Checked _____ Survey by _____ Name OBEW Date 12-8-53
No. _____ Date _____ Date _____ Map No. _____ Name _____ Date _____

F.B. 1506 Pg. 25

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	496+00-N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
504+00-N -124.50 OFF	21	Y		37°35		
N-47 -124.50 OFF	22	B & W	10:20	35°24		
	23	R		33°53		
	24	Y		33°13		
	25	B & W	10:23	32°09		
	26	R		28°[illegible]2		

F.B. 1506 Pg. 252 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by E. H. [illegible] Notes OBEN Notes Chkd. Checked No.
Indexed [illegible] Date Date

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L.A. City Base Line

BOAT 496+00N

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	B-W	10:05	31.0 30.0 32.0	30.3	6.2	24.1	2005 WENT FURTHUR OUT FOR 31' SHOT
2	R		30.8 29.0	31.2	6.2	25.0	2140
3	Y		27.6 28.1	28.1	6.2	21.9	1753
4	B-W	10:09	26.8 26.4	27.2	6.2	21.0	1640
5	R		25.5 25.5	25.8	6.2	19.6	1530
6	Y		24.3 25.0	24.7	6.2	18.5	1425
7	B-W	10:11	23.2 21.1	23.8	6.2	17.6	1316
8	R		20.3 21.0	20.6	6.2	14.4	1238 ROCKY BOTTOM
9	Y		20.3 20.2	20.5	6.2	14.3	1175
10	B-W	10:12	18.1 20.0	18.8	6.1	12.7	1115
11	R		18.7 19.5	19.0	6.1	12.9	1083
12	Y		18.2 19.2	18.7	6.1	12.6	1043
13	B-W	10:14	16.0 16.8	16.4	6.1	10.3	973
14	R		16.5 17.8	17.2	6.1	11.1	933
15	Y		15.5 16.3	16.3	6.1	10.2	877
16	B-W	10:16	14.0 14.8	14.8	6.1	8.7	828
17	R		14.0 14.3	14.3	6.1	8.2	795
18	Y		11.9 13.4	12.4	6.1	6.3	751
19	B-W	10:18	12.0 13.9	12.6	6.1	6.5	724
20	R		11.0 13.0	11.7	6.1	5.6	680

Profile
No. X-Sec. No.
Notes Red CEM Plotted Job No. 8412 Division No. F.B. 1506 Pg. 253
Date 1/26/54 Date Survey of BEACH EROSION STUDY
Notes Ckd. Checked Survey by FUGRO Notes A.S. Date 12-8-53
Date Date Map No. Ind. Tabulation Date

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	496+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		11.2 10.4	10.7	61	4.6	660
22	BxW	10:20	13.0 11.5	12.0	61	5.9	615
23	R		Void				Void
24	Y		12.0 10.2	10.8	60	4.8	563
25	BxW	10:23	8.8 8.0	8.3	60	2.3	541
26	R		8.0 6.0	6.7	60	0.7	483

F.B. 1506 PG: 254 Job No. 8412 Division No. [illegible] Notes Red. CEM Plotted ____ Date 1/26/54 Date ____ No. ____ X-Sec. ____

Survey of Beach Erosion Studies

Survey by F.H.B. Notes AS 12/8/53 Notes Chkd ____ Checked ____ Date ____ No. ____

Indexed [illegible] Date ____

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	500+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1.	B+W	11:27	90°00'		
		2.	R		90°00'		
		3	Y		90°00'		
		4	B+W	11:30	90°00'		
		5.	R		89°29'		
		6	Y		90°15'		
		7.	B+W	11:33	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B+W	11:35	90°00'		
		11	R		90°42'		
		12	Y		90°00'		
		13	B+W	11:39	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B+W	11:42	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B+W	11:43	90°00'		
		20	R		90°00'		

500+00 N

B.S. 500+00 N

50+00 N

BASE LINE

Notes Red ____ Plotted ____ Job No. 8418 Division No. ____ F.B. 1506 Pg. 255
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd ____ Checked ____ Survey by H. BLANCHARD EP Date 12-8-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 1506 PG. 256 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by E. H. BLANCHARD Notes E. ROBBINS Notes Chkd. _____ Checked _____ X-Sec.

Indexed [illegible] Date 12-8-53 Date _____ Date _____ No. _____

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STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	500+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
500+00 N						
500+00 N B.S.						
	21	Y		90°00'		
	22	B&W	11:44	90°00'		
	23	R		90°00'		

76L298 307 10-51

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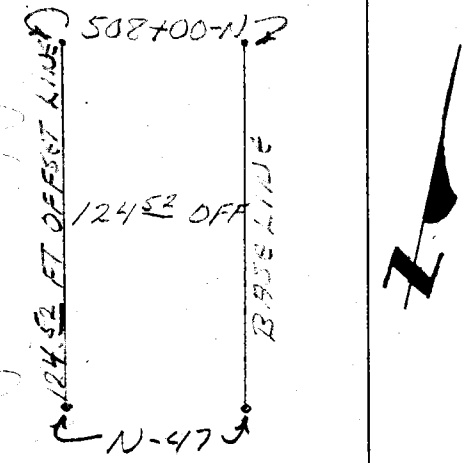
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	500+00-N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
508+00-N 124.52 OFF / N-47 124.52 OFF	1	B&W	11:22	76°19		
	2	R		78°23		
	3	Y		76°30		
	4	B&W	11:30	74°37		
	5	R		72°39		
	6	Y		71°04		
	7	B&W	11:33	68°55		
	8	R		67°09		
	9	Y		65°00		
	10	B&W	11:35	62°08		
	11	R		59°56		
	12	Y		56°53		
	13	B&W	11:37	54°48		
	14	R		53°06		
	15	Y		50°46		
	16	B&W	11:40	47°53		
	17	R		44°03		
	18	Y		42°11		
	19	B&W	11:42	40°23		
	20	R		38°20		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 257
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD OBEN Date 12-8-53
Date ____ Date ____ Map No. [illegible] Date ____

F.B. 1586 Pg. 258 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

Survey by _____ Notes OBEN Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks	
508+00 124.52 FT OFF	21	Y		3[illegible]	CUT-IN	500+00-N
N-47 124.52 FT OFF	22	B&W	11:44	33[illegible]		
	23	R		31[illegible]		

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		500+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B×W	11:22	30.9 30.0	30.3	51 ✓	25.2	2135	
2	R		31.0 29.9	30.3	51	25.2	2352	
3	Y		30.1 28.9	29.3	50 ✓	24.3	2158	
4	B×W	11:30	29.2 27.1	27.8	5.0	22.8	1985	
5	R		27.6 27.0	27.2	5.0	22.2	1827	
6	Y		27.2 25.6	26.1	5.0	21.1	1691	
7	B×W	11:32	26.0 24.8	25.2	50	20.2	1580	
8	R		24.8 23.9	24.2	49 ✓	19.3	1488	
9	Y		24.5 23.0	23.5	4.9	18.6	1386	
10	B×W	11:35	23.0 22.0	22.3	4.9	17.4	1253	
11	R		21.2 20.1	20.5	49	15.6	1173	
12	Y		20.5 16.5	17.8	48 ✓	13.0	1079	Rocky Bottom
13	B×W	11:39	18.6 17.1	17.6	4.8	12.8	1015	
14	R		18.1 17.0	17.4	4.8	12.6	969	
15	Y		17.9 16.0	16.6	4.8	11.8	910	
16	B×W	11:40	15.5 14.7	15.0	4.8	10.2	842	
17	R		15.1 13.5	14.0	4.8	9.2	762	
18	Y		14.2 13.0	13.4	48	8.6	721	
19	B×W	11:42	12.3 11.5 ?	11.8?	47 ✓	7.1 ?	690	
20	R		13.5 12.0	12.5	47 ✓	7.8	652	

Profile No. ____ Date 1/26/54 Notes Red CEM Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion Studies

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by EHB Notes AS Date 12-8-53 Map No. ____ Date ____ Indexed ____ Date ____

F.B. 1506 Pg 259

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		500+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj.	Depth	Remarks
21	Y		11.0 10.2	10.5	4 ✓	5.8	620	
22	B+W	11:43	10.0 8.3	8.9	4 ✓	4.2	570	
23	R		8.3 7.0	7.4	4 ✓	2.7	532	

F.B. 1506 PG 260 Job No. 8412 Division No. Notes Red. CEM Plotted Profile
Survey of Beach Erosion Studies Date 1/26/54 Date No.
Survey by EHB Notes A.S. 12/8/53 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

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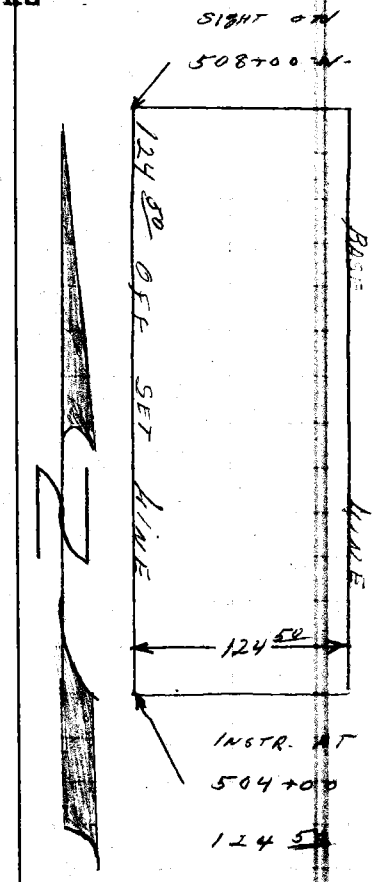
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	504+00 - N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B+W	12:02	90°00'		
		2	R		90°00'		
		3	Y		89°42'		
		4	B+W	12:04	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B+W	12:07	90°00'		
		8	R		90°00'		
		9	Y		89°45'		
		10	B+W	12:10	90°00'		
		11	R		89°40'		
		12	Y		90°00'		
		13	B+W	12:12	90°00'		
		14	R		89°28'		
		15	Y		90°00'		
		16	B+W	12:15	90°00'		
		17	R		90°23'		
		18	Y		90°00'		
		19	B+W	12:16	90°00'		
		20	R		90°00'		

504+00 N

508+00 N



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 261

X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD R.E. Date 12-8-59

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

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	504+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B+W	12:17	90°00'		
		23	R		90°00		
		24	Y	Y	90°00'		

F.B. 1506 PG 262 Job No. 7412 Division No. Notes Red. Plotted Profile
Survey of BEACH Erosion Studies Date Date No.
Survey by H. BERNHARD Notes Robbins Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date 12-8-53 Date Date No.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	504+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
512+00-N BASELINE BASELINE 510+07 65-N	1	B&W	12:01	71°45		
	2	R		70°39		
	3	Y		69°33		
	4	B&W	12:04	68°52		
	5	R		67°13		
	6	Y		66°12		
	7	B&W	12:08	64°56		
	8	R		63°42		
	9	Y		62°20		
	10	B&W	12:10	60°31		
	11	R		58°30		
	12	Y		56°48		
	13	B&W	12:12	54°59		
	14	R		53°23		
	15	Y		52°05		
	16	B&W	12:15	50°23		
	17	R		49°05		
	18	Y		46°36		
	19	B&W	12:16	44°26		
	20	R		42°04		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1501 Pg. 263
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Date 12-8-53
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1506 Pg. 10 764 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDY Date _____ Date _____ No. _____

Survey by [illegible] Notes OBEN Notes Chkd. _____ Checked _____ X-Sec.

Indexed E. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY

ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Remarks
512+00-N - BASELINE					
510+07.65-N - BASELINE					
	21	Y		39° [illegible]	
	22	B&W	12:18	37° 03	
	23	R		35° [illegible]	
	24	Y		33° [illegible]	
					CUT-IN
					504+00-N

76L298 307 10-51

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Profile Notes Red CEM Plotted
No. Date 1/26/54 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by EHB Notes A.S. Date 12-8-53
No. Date Date Map No. Inspected C. Johnson Date

F.B. 1506 Pg. 265

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	504700N	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B-W-R	12:01	30.2	30.2	4.4 ✓	25.8	2426
2	R		28.9	28.9	4.4	24.5	2278
3	Y		27.8	27.8	4.3 ✓	23.5	2115
4	B-W-R	12:07	27.4	27.4	4.3	23.1	2070
5	R		25.8	25.8	4.3	21.5	1905
6	Y		26.0	26.0	4.3	21.7	1814
7	B-W	12:08	25.0	25.0	4.3	20.7	1710
8	R		24.4	24.4	4.2 ✓	20.2	1619
9	Y		23.7	23.7	4.2	19.5	1514
10	B-W-R	12:10	22.5	22.5	4.2	18.3	1415
11	R		22.1	22.1	4.2	17.9	1300
12	Y		21.1	21.1	4.2	16.9	1222
13	B-W-R	12:12	20.4	20.4	4.2	16.2	1142
14	R		19.5	19.5	4.2	15.3	1065
15	Y		18.1	18.1	4.2	13.9	1027
16	B-W-R	12:14	16.1	16.1	4.1 ✓	12.0	966
17	R		16.7	16.7	4.1	12.6	930
18	Y		15.4	15.4	4.1	11.3	846
19	B-W-R	12:16	13.8	13.8	4.1	9.7	784
20	R		14.3	14.3	4.1 ✓	10.2	722

F.B. 1506 PG. 266 Job No. 8412 Division No. Notes Red. CEM Plotted Profile

Survey of Beach Erossion Studies Date 1/26/54 Date No.

Survey by F.H.B. Notes A.S. 12/8/53 Notes Chkd. Checked X-Sec.

Indexed R. C. Johnson Date Date Date No.

76L298 307 10-51

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STATION #	Color	B.S. Time	H.I. Meas Depth	F.S. Bottom	ELEV. Tide	Adj. Depth	Remarks
21	Y		12.0	11.2	41	7.1	663
22	B×W	12:18	10.8	10.5	40	6.5	604
23	R		8.8	8.8	40	4.8	564
24	Y		8.2	7.6	40	3.6	533

BOAT

504 TOON

76L298 307 10-51

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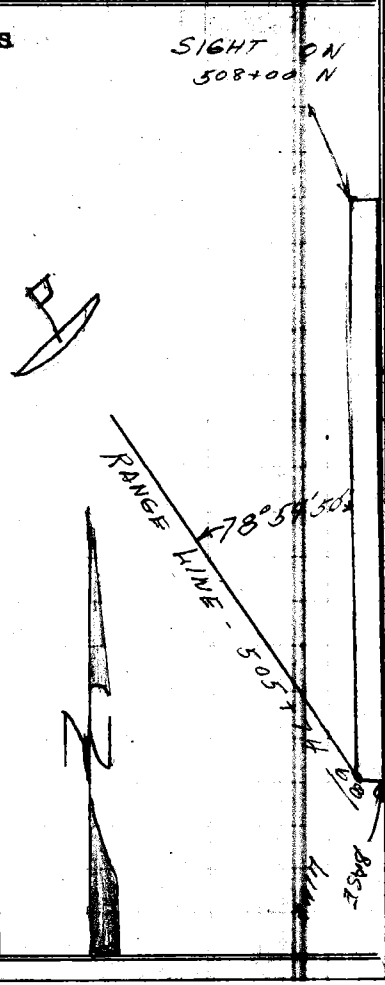
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	505+74 68
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
505+74 68	North	1.	B+W	12:49	78°54'50"		
		2	R		78°54'50"		
		3.	Y		78°54'50"		
		4.	B+W	12:53	78°54'50"		
		5.	R		78°54'50"		
		6	Y		78°54'50"		
		7	B+W	12:55	78°54'50"		
		8	R		78°54'50"		
		9	Y		78°54'50"		
		10	B+W	12:58	78°54'50"		
		11	R		78°54'50"		
		12	Y		78°54'50"		
		13	B+W	12:59	78°54'50"		
		14	R		78°54'50"		
		15	Y		78°54'50"		
		16	B+W	1:01	78°54'50"		
		17	R		78°54'50"		
		18	Y		78°54'50"		
		19	B+W	1:03	78°54'50"		
		20	R		78°54'50"		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 267

X-Sec. No. ____ Date ____ Date ____ Survey of Pearson Studios

Notes Chkd ____ Checked ____ Survey by H. BLANCHARD, J.C.G. Date 12-8-53

Date ____ Date ____ Map No. ____ Date ____

F.B. 1506 PG. 268 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by F. H. BLANCHARD Notes J.C.G. Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

505+74.68 North

508+00 N

STATION	B.S.	H.I.	F.S.	ELEV.	Range	505+74.68
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		78° [illegible] 50"		
	22	B&W	1:05	78° [illegible] 50"		
	23	R		78° [illegible] 50"		
	24	Y		78° [illegible] 50"		
	25	B&W	1:07	78° [illegible] 50"		
	26	R		78° 54' 50"		

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	505+74 68-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
516+00-N - BASELINE	1	B&W	12:50	79°51		
	2	R		78°36		
	3	Y		77°16		
510+07 65-N - BASELINE	4	B&W	12:53	76°00		
	5	R		74°33		
	6	Y		72°49		
	7	B&W	12:56	70°04		
	8	R		67°57		
	9	Y		66°01		
	10	B&W	12:58	64°01		
	11	R		61°36		
	12	Y		58°58		
	13	B&W	1:00	57°26		
	14	R		55°06		
	15	Y		53°16		
	16	B&W	1:02	50°59		
	17	R		48°18		
	18	Y		45°27		
	19	B&W	1:04	43°39		
	20	R		41°08		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 269

No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES

X-Sec. Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD Notes OBEN Date 12-8-53

No. ____ Date ____ Date ____ Map No. ____ Rad Id Johnson Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	505 + 74.68 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
516+00-N-BASELINE	21	Y		37°45		
	22	B&W	1:06	36°2		
	23	R		32°29		
	24	Y		30°4		
	25	B&W	1:08	28°3		
	26	R		25°41		
510+37.65-N-BASELINE						

Profile
Survey of BEACH EROSION STUDIES
Survey by [illegible]
Indexed [illegible]
Job No. 8412 Division No.
Notes Red. Plotted
Date Date
Notes Chkd. Checked
Date Date
Notes OBEN
Date
No. X-Sec.
No.
B. 506 Pg. 270

76L298 307 10-51

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L.A. City Base Line

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		505 + 74 68 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B×W	12:49	31.2 30.5	30.7	34 ✓	27.3	2350	
2	R		30.0 29.0	29.3	33 ✓	26.0	2245	
3	Y		29.3 28.0	28.4	33	25.1	2133	
4	B×W	12:53	28.2 27.0	27.4	32 ✓	24.2	2040	
5	R		28.3 26.7	27.2	3.2	24.0	1939	
6	Y		27.0 26.0	26.3	3.2	23.1	1828	
7	B×W	12:55	26.0 24.7	25.1	3.2	21.9	1672	
8	R		25.9 24.8	25.2	32	22.0	1566	
9	Y		24.1 23.0	23.4	31 ✓	20.3	1480	
10	B×W	12:59	24.0 22.5	23.0	3.1	19.9	1400	
11	R		23.0 21.8	22.2	3.1	19.1	1305	
12	Y		23.1 20.9	21.6	3.1	18.5	1215	
13	B×W	1:00	21.4 20.8	21.0	3.1	17.9	1167	
14	R		21.7 20.8	21.1	3.1	18.0	1093	Rocky Bottom
15	Y		20.3 19.3	19.6	31	16.5	1042	
16	B×W	1:02	20.4 18.8	19.3	30 ✓	16.3	980	
17	R		18.2 16.5	17.1	3.0	14.1	911	
18	Y		16.7 16.0	16.2	3.0	13.2	842	
19	B×W	1:04	16.4 15.7	15.9	3.0	12.9	803	
20	R		14.8 14.0	14.3	30 ✓	11.3	748	

Profile
No. ____ Date 1/26/54 Notes Red CEM Plotted ____ Job No. 8416 Division No. ____ F.B. 1506 Pg. 77
X-Sec. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____ Survey by [illegible] Notes A.S. Date 12-8-52

Profile

Notes Red. CEM Plotted
Date 1/26/54 Date
Notes Chkd. Checked
Date Date

STATION

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		15.0 13.6	14.1	2.9	11.2	677
22	B+W	1:05	15.1 13.0	13.7	2.9	10.8	645
23	R		12.5 11.0	11.5	2.9	8.6	582
24	Y		12.6 10.0	10.7	2.9	7.8	538
25	B+W	1:08	2.3 8.0	8.4	2.9	5.5	498
26	R		6.0 5.0	5.3	2.9	2.4	451