F. B. _____ PG. _____

Map No. _____
Office Work _____
Checked _____
Date _____

W. O. 8412 Tape No. 029 St'd 84 °F
Surveyed by F H Blanchard
Notes Blanchard Date 3-23-53
Indexed 3-25-53

BEACH EROSION STUDIES

~ CONTINUED ~

CONTINUED FROM F.B. 1299-265

J.N. 8412

MARCH 1953

1884

Microfilmed Feb '87

LOS ANGELES COUNTY SURVEYOR
72 ... COUNTY
... BLDG.

76F3098 247 2-51

F. B. 1884 PG. 2

RETURN TO
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726 LOS ANGELES COUNTY
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76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 102+50	
					Sight on 107+50	
107+50	1 35	27 65 ✓		26 30 ✓	✓	1 X 2
26' L.			1 6	26 0 ✓	✓	Brk.
38' L.			7 0	20 6 ✓	✓	"
96'			11 8	15 8 ✓	10 54 96 ✓	"
T.P. 122	0 00	14 03 ✓	13 62	14 03 ✓	13 48 122 ✓	"
" 189	0 28	7 16	7 15	6 88	20 48 189 ✓	"
268			7 1	-0 1 ✓	28 11 268 ✓	under water
320			10 5	-3 3 ✓	32 39 320 ✓	" "
346			11 0	-3 8 ✓	34 41 346 ✓	" "
350			11 5	-4 3 ✓	35 06 350 ✓	" "
			13 5	-6 3 ✓	49 26 587 ✓	" "
			15 0	-7 8 ✓	52 22 650 ✓	" "

Profile Notes Red. Plotted Job No. Division No. F.B. 1001 PG. 2

X-Sec. Notes Chkd. Checked Survey by English Notes English Date 3-18-53

No. Date Date Map No. Inspector Johnson Date

Inshore

101+30

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at S-5 Sight on 102+50	
102+50	1 70	28 24	✓	2[illegible] 54	✓ ✓	1X2
19' L.			0 0	28 2	✓ ✓	Brk.
37' L.			7 7	20 5	✓ ✓	"
100 L.			12 5	15 7	✓ ✓	"
T.P. 130' L.	0 00	~~14 62~~ 14 66	13 58	~~14 62~~ 14 66	✓	"
180' L.	0 25	~~8 87~~ 8 91	6 00	~~8 62~~ 8 66	✓	"
			5 5	3 4	✓ 47° 44' 223 ✓	under water
			11 0	-2 1	✓ 59 49 356 ✓	" "
			13 7	-4 8	✓ 66 21 472 ✓	" "
			13 9	-[illegible] 0	✓ 70 18 580 ✓	" "
			16 2	-7 3	✓ 72 27 658 ✓	" "

Inshore
102+50 S.

Profile
No.
X-Sec.
No.
Plotted
Date
Checked
Date
Notes Red. [illegible]
Date 4-8-53
Notes Chkd.
Date
Division No.
Job No. 8412
Survey of Beach Erosion Studies
Survey by English
Notes English
Indexed C. Johnson
Date
Pg. 4
1984

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1884 Pg. 9

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

Date Map No. [illegible] Johnson Date

SAVAGE 107150 S

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 107150 S
107150	S-6	1	B&W	11:06	90°00'		
		2	R		88°49'		
		3	Y		88°45'		
		4	B&W	11:12	90°00'		
		5	R		90°00'		
		6	Y		89°05'		
		7	B&W	11:17	90°00'		
		8	R		90°00		
		9	Y		89°36'		
		10	B&W	11:21	90°00'		
		11	R		90°00'		

F.S. 7884 Pg. 10

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

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

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

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

764.298 307 4-50

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

76L298 307 4-50

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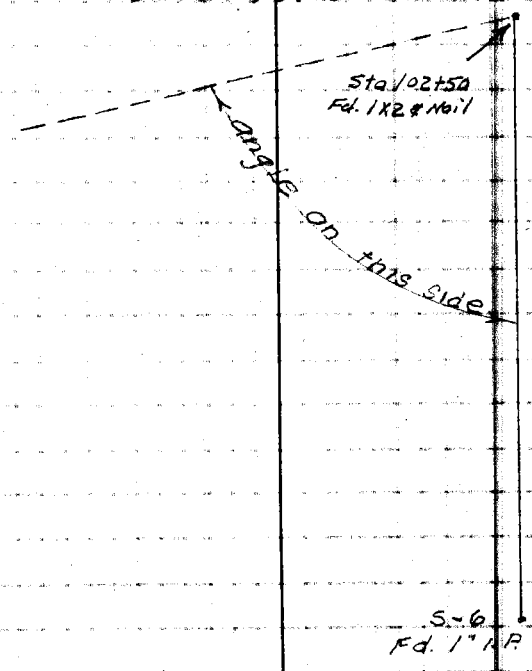
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks
102+50	S-6	1 B&W	11 06	74° 21'	W	Cut in 107+50
		2 R		71° 57'	W	
		3 Y		69° 21'	W	
		4 B&W	11 12	67° 20'	W	
		5 R		65° 53'	W	
		6 Y		62° 59'	W	
		7 B&W	11 17	61° 45'	W	
		8 R		59° 55'	W	
		9 Y		57° 33'	W	
		10 B&W	11 21	56° 14'	W	
		11 R		53° 59'	W	



Profile Notes Red. Plotted Job No. Division No.
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Johnson Date
F. B. Pg.

F. B. 1884 Pg. 12

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

Survey of _____ Date _____ Date _____ No. _____

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

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

76L298 307 4-60

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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.	107 + 50 S BOAT	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
							Distance
1	B&W	1106	32.0 / 29.6	30.4	3.9	26.5	1790 BOTTOM SEMI-HARD
2	R		29.9 / 27.9	28.6		24.7	1630
3	Y		28.0 / 25.9	26.6		22.7	1420
4	B&W	1112	27.0 / 23.9	24.9	3.9	21.0	1200
5	R		23.7 / 21.5	22.2		18.3	1120
6	Y		23.0 / 19.9	20.9		17.0	1019
7	B&W	1117	21.0 / 18.0	19.0	3.9	15.1	932
8	R		18.5 / 16.0	16.8		12.9	864
9	Y		16.3 / 13.8	14.6		10.7	801
10	B&W	1121	15.4 / 11.9	13.1	4.0	9.1	752
11	R		13.6 / 10.9	11.8		7.8	690
12	Y						

Boat 101+50 S

Profile Notes Red ____ Plotted ____ Job No. 9413 Division No. ____

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

No. ____ Date 4-28-53 Date ____ Map No. ____ Indexed [illegible] Johnson Date ____

F.B. 1882 Pg. 12

F.B. 1880 PG. 14 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

Survey by E.H.B. | Notes | 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.		
# Color	Time	Heag Depth	Bottom	Tide	Adj. Depth	Remarks

76L298 307 5-49

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∡ OK

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at S-5		
					Sight on 97+50		
97+50	0 61	28 11		27 50			1X2
33' L.			1 4	26 7			Brk
83' L.			12 3	15 8			"
121' L.			12 9	15 2			"
150' L.	0 00	13 76	14 35	13 76			"
168' L.			0 3	13 5			"
197' L.	1 32	9 16	5 92	7 84			"
			6 0	3 2	39° 49'	249	under water
			9 2	0 0	44 47	297	" "
			10 0	-0 8	46 47	317	" "
			14 0	-4 8	63 19	592	" "
			14 0	-4 8	64 02	611	" "
			15 8	-6 6	66 29	650	" "

Inshore
97+50 S

Profile Notes Red. Plotted Job No. Division No.
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 4-14-53 Date Map No. Date
F.B. PG.

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at	88+50	
					Sight on	92+50	
92+50	2 66	30 54		27 88			1X2
31' L.			2 8	27 7			Brk.
T.P. 58' L.	0 96	18 60	12 90	17 64			"
100' L.			3 6	15 0			"
150' L.			3 3	15 3			"
181' L.			5 6	13 0			"
T.P. 250' L.	1 33	5 69	14 24	4 36			"
			5 6	0 1	36° 56'	300	under water
			9 8	-4 2	41 36	354	" "
			7 1	-1 5	44 04	388	" "
			8 4	-2 7	52 25	519	" "
			13 0	-7 3	59 48	687	" "
			13 7	-8 0	61 58	751	" "
			15 2	-9 5	63 16	794	" "

Inshore 92+50 S.

F.B. 1984 PG. 16
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed C. Johnson Date Date

Map No. _____ W. O. _____ Tape No. _____ St'd. _____ °F
Office Work _____ Surveyed by _____
Checked _____ Notes _____ Date _____
Date _____ Indexed K. O. Johnson

March 19 1953

0600	0.1		SANTA MONICA PIER
0630	0.2		
0700	0.3		
0730	0.3		
0800	0.6		
0830	0.9		
0900	1.2		
0930	1.7		
1000	1.9		
1030	2.4		
1100	2.7		
1130	2.9		
1200	3.1		
1230	3.4		
1300	3.4		
1330	3.4		
1400	3.3		

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76F309S 247 2-51

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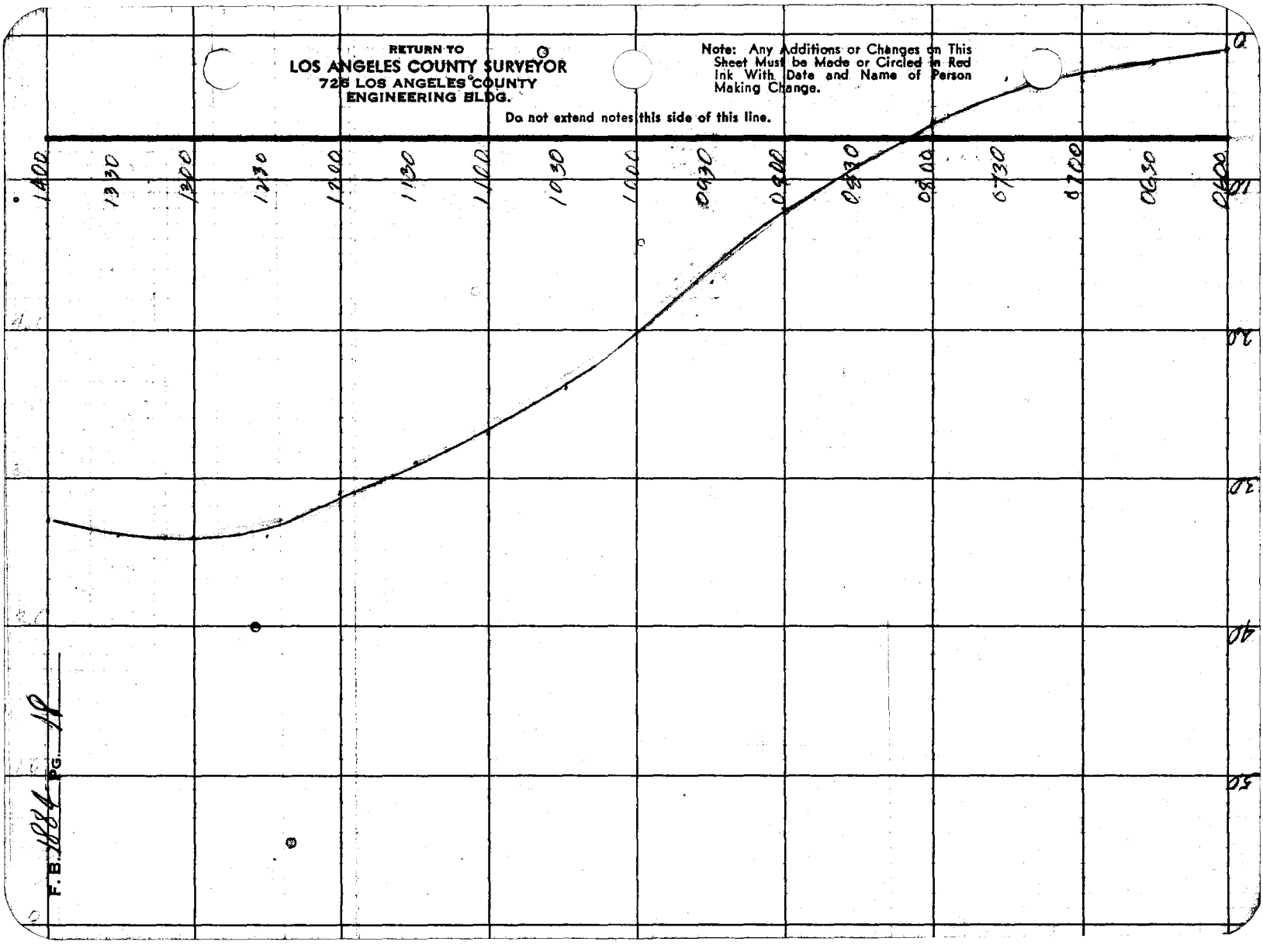

F.B. 1884 PG. 19

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 102+50-S
102+50	S-6	1	B+W	7:49	90°22'		
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	7:54	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	7:58	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		89°42'	✓	
		10	B+W	8:02	89°35'	✓	
		11	R		90°00'	✓	
		12	Y		89°09'	✓	
		13	B+W	8:06	88°16'	✓	
		14	R		89°23'	✓	
		15	Y		88°52'	✓	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1884 Pg. 19

Notes Chkd. ____ Checked ____ Survey By ____ Notes ____

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

RANGE 102+50 S

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	3-19-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 97+50-S
97+50	S-5	1	B+W	8:29	90° 00'	✓	
		2	R		90° 00'	✓	
		3	Y		90° 00'	✓	
		4	B+W	8:33	90° 00'	✓	
		5	R		90° 00'	✓	
		6	Y		90° 00'	✓	
		7	B+W	8:38	90° 00'	✓	
		8	R		90° 00'	✓	
		9	Y		90° 00'	✓	
		10	B+W	8:40	90° 00'	✓	
		11	R		89° 23'	✓	

RANGE 97+50 S

F. B. 1010 Pg. 20
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H.B. Notes U.S. 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.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks
107+50	S-5	~~1 B&W~~	~~7:08~~	~~76° 31'~~	Shot #1 Void	Cut in 102+50
		2 B&W	7:49	76° 15'	✓ Heavy Fog	
		3 R		75° 54'	✓ from 7:10 to 7:49	S-5
		4 Y		74° 50'	✓	Fd. 2" I.P.
		5 B&W	7:54	73° 47'	✓	
		6 R		72° 48'	✓	
		7 Y		71° 16'	✓	angle on this side
		8 B&W	7:58	67° 42'	✓	
		9 R		67° 36'	✓	
		10 Y		65° 37'	✓	
		11 B&W	8:02	64° 10'	✓	
		12 R		62° 18'	✓	
		13 Y		61° 12'	✓	
		14 B&W	8:06	57° 48'	✓	
		15 R		54° 27'	✓	Sta. 107+50
		16 Y		58° 46'		Set 1x2 & Nail

Cut in 102+50

Profile Notes Red. Plotted Job No. 8[illegible] Division No. [illegible] F. B. 1984 Pg. 21

Notes Chkd. Checked Survey by Notes [illegible] Date

No. Date Date Map No. Entered Johnson Date

76L298 307 4-50

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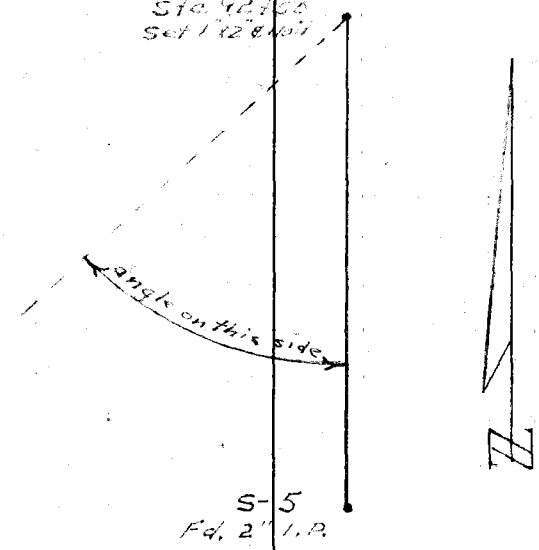
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
92+50	S-5	1	B&W	8 28	[illegible]	✓	[illegible]
		2	R		[illegible] 10'	✓	
		3	Y		7[illegible] 02'	✓	
		4	B&W	8 32	[illegible] 53'	✓	
		5	R		[illegible] 52'	✓	
		6	Y		[illegible] 18'	✓	
		7	B&W	8 38	62° 43'	✓	
		8	R		6[illegible] 05'	✓	
		9	Y	~	[illegible] 28'	✓	
		10	B&W	8 40	5[illegible] 04'	✓	
		11	R		[illegible] 35'	✓	



F. S. 1884 PG. 22
Job No. 8412 Division No. V Notes Red ____ Plotted ____ Profile ____
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ 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.	Distance	102+50 Boat
# Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
		31.5				
1 B&W	750	28.0	29.2	0.5	28.7	out
		30.0				
2 R		26.7	27.8		27.3	2058
		29.5				
3 Y		26.0	27.2		26.7	2009
		27.1				
4 B&W	754	25.1	25.8	0.6	25.2	1856
		26.1				
5 R		23.9	24.6		24.0	1718
		26.1				
6 Y		23.5	24.9		23.8	1622
		23.8				
7 B&W	758	22.2	22.7	0.6	22.1	1480
		25.0				
8 R		20.8	22.2		21.6	1356
		22.5				
9 Y		19.3	20.4		19.8	1200
		21.7				
10 B&W	802	17.0	18.6	0.6	18.0	1141
		18.7				
11 R		15.0	16.2		15.6	1040
		16.9				
12 Y		13.0	14.3		13.7	932
		13.1				
13 B&W	806	9.9	11.0	0.7	10.3	861
		11.2				
14 R		8.1	9.1		8.4	786
		14.1				
15 Y		11.1	12.1		11.4	681

Boat 102+50

Profile Notes Red Plotted Job No. 9417 Division No. 1
Xsec. No. Notes Chkd. Checked Survey by C. Nolan D818
Date 4-21-55 Date Map No. Indexed Date
F.B. 1811 Pg. 23

76L298 307 10-51

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Do not extend notes this side of this line. 97+50 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 29	305 280	28.8	0.9	27.9	2135	
2	R		280 261	26.7		25.8	1900	
3	Y		283 253	26.3		25.4	1745	
4	BW	8 33	273 237	24.5	0.9	23.6	1528	
5	R		248 222	23.1		22.2	1366	
6	Y		232 200	21.1		20.2	1143	
7	BW	8 38	203 170	18.1	1.0	17.1	974	
8	R		157 136	14.3		13.3	870	
9	Y		141 120	12.7		11.7	818	
10	BW	8 40	127 103	11.1	1.0	10.1	774	
11	R		119 90	10.0		9.0	741	
12	Y							
13	BW							

Boat 97+50 S

3-19-53

F.B. 1884 PG. 24 Job No. 8412 Division No. Y Notes Red. Lew Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.
Survey by FHB Notes KRK Notes Chkd. 4-21-53 Checked No.
Indexed C. Johnson Date Date KRK Date No.

76L298 307 5-49

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.	Cut-in X		
					Inst at S-4		
					Sight on 87+50		
87+50	0 79	28 56		27 77	✓	✓	1X2
			1 9	26 7	12° 37'	27 ✓	Brk.
			11 0	17 6	22 18	56 ✓	"
			13 0	15 6	34 06	92 ✓	"
			13 4	15 2	41 53	121 ✓	"
T.P.	0 00	13 51	15 05	13 51	46 57	148 ✓	"
"	2 39	5 87	10 03	3 48	61 04	250 ✓	"
			5 1	0 8	63 43	281 ✓	under water
			7 6	-1 7	69 33	374 ✓	" "
			10 7	-4 8	73 14	465 ✓	" "
			10 1	-4 2	79 18	740 ✓	" "
			13 5	-7 6	80 44	860 ✓	" "
			15 6	-9 7	81 32	940 ✓	" "

Profile Notes Red. Plotted Job No. Division No. F.B. PG.

X-Sec. Notes Chkd. [illegible] Checked Survey by [illegible] Notes [illegible] Date 3-19-53

No. Date 4-14-53 Date Map No. [illegible] Indexed [illegible] Date

Inshore

87+50 S.

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in X	
					Inst. at 77+50	
					Sight on 82+50	
82+50	0 85	30 74 ✓		28 89 ✓	✓	1X2
			2 0	28 7 ✓	2°11' 18 ✓	Brk.
T.P.	1 87	18 39 ✓	14 22	16 52 ✓	6 56 60 ✓	"
			3 6	14 8 ✓	11 07 99 ✓	"
			3 7	14 7 ✓	15 44 117 ✓	"
			5 5	12 9 ✓	18 58 173 ✓	"
T.P.	2 09	6 43 ✓	14 05	4 34 ✓	25 39 240 ✓	under water
			5 6	0 8 ✓	28 53 277 ✓	" "
			10 0	-3 6 ✓	32 01 313 ✓	" "
			7 9	-1 5 ✓	37 55 392 ✓	" "
			8 2	-1 8 ✓	43 28 477 ✓	" "
			12 2	-5 8 ✓	50 15 629 ✓	" "
			14 0	-7 6 ✓	52 08 647 ✓	" "
			14 1	-7 7 ✓	53 23 673 ✓	" "
			15 5	-9 1 ✓	54 59 713 ✓	" "

Inshore 82+50 S.

F.B. 1888 PG. 26
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes Chkd. Checked No.
Indexed J. C. Johnson Date 1-14-53 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 92+50-S
92+50	S-5	1	BtW	8:59	90° 00'	✓	
		2	R		90° 00'	✓	
		3	Y		90° 00'	✓	
		4	BtW	9:03	90° 00'	✓	
		5	R		89° 31'	✓	
		6	Y		89° 09'	✓	
		7	BtW	9:06	89° 41'	✓	
		8	R		89° 39'	✓	
		9	Y		90° 00'	✓	
		10	BtW	9:08	90° 00'	✓	
		11	R		90° 39'	✓	

Profile Notes Red. Plotted Job No. Division No. F. B. 188V Pg. 27

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

No. Date Date Map No. Date Date

Johnson

RANGE 92+50S

76L298 307 4-50

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F. B. 1884 Pg. 28 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by F.H.B. | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	3-19-53	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 87+50
87+50 S-5	1	B+W	9:24	90° 00'	✓	
	2	R		90° 00'	✓	
	3	Y		90° 00'	✓	
	4	B+W	9:28	90° 00'	✓	
	5	R		90° 00'	✓	
	6	Y		90° 00'	✓	
	7	B+W	9:31	90° 00'	✓	
	8	R		90° 00'	✓	
	9	Y		89° 25'	✓	
	10	B+W	9:34	90° 00'	✓	
	11	R		89° 12'	✓	
RANGE 87+50 S						

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.	Remarks
87+50	S-5	1	B&W	8 59	76° 36'	✓ Cut in 92+50
		2	R		74° 19'	✓
		3	Y		72° 12'	✓
		4	B&W	9 03	69° 37'	✓
		5	R		66° 50'	✓
		6	Y		64° 01'	✓
		7	B&W	9 06	61° 46'	✓
		8	R		59° 57'	✓
		9	Y		58° 30'	✓
		10	B&W	9 08	57° 16'	✓
		11	R		56° 08'	✓

Sta. 87+50
Set 1" x Σ 8 Nail

angle on this side

S-5
Fd. 2" I.P.

Profile Notes Red. Plotted Job No. Division No. F. B. 1884 Pg. 29

Notes Chkd. Checked Survey By Notes Date

No. Date Date Map No. Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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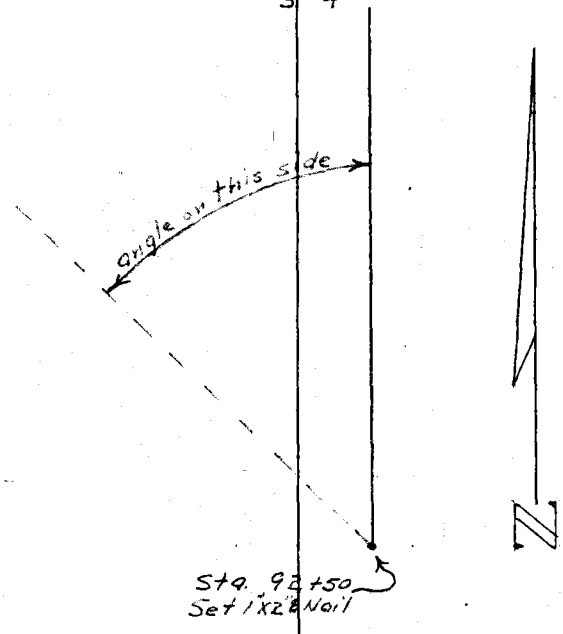
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
92+50	S-4	1	B&W	9:24	[illegible] 52'	✓	Cut in 87+50
		2	R		[illegible] 57'	✓	S-4
		3	Y		[illegible] 32'	✓	
		4	B&W	9:28	[illegible] 30'	✓	
		5	R		68 32'	✓	
		6	Y		65 52'	✓	
		7	B&W	9:31	[illegible]	✓	
		8	R		65 54'	✓	
		9	Y		[illegible] 36'	✓	
		10	B&W	9:34	[illegible] 41'	✓	
		11	R		[illegible]	✓	

Cut In 87+50 S



F. B. 1884 Pg. 30 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No. X-Sec.
Survey by Notes Notes Chkd. Checked
Indexed A. C. Johnson Date Date Date No.

76L298 307 10-51

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Do not extend notes this side of this line. 92+50 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance
1	BW	~~9~~ 8 59	308 281	29.0	1.2	278	2111
2	R		291 268	27.6		264	1790
3	Y		277 229	24.5		233	1560
4	BW	~~10~~ 9 03	260 212	22.8	1.3	215	1348
5	R		225 204	21.1		198	1197
6	Y		210 171	18.4		171	1067
7	BW	~~10~~ 9 06	184 147	15.9	1.3	146	947
8	R		140 128	13.2		119	875
9	Y		140 112	12.1		108	819
10	BW	~~10~~ 9 08	148 93	11.1	1.3	98	780
11	R		110 76	8.7		74	738
12	Y						
13	BW						

Profile Notes Red. Plotted Job No. Division No.

F.B. 1884 PG. 31

Notes Chkd. Checked Survey by Notes Date

No. Date 4-2-2-53 Date Map No. Indexed Johnson Date

Boat 921 50 S

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. 87+50 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	9 ~~18~~ 24	315 290	29.8	1.5	283	2141	
2	R		290 271	27.7		262	1740	
3	Y		287 263	27.1		256	1700	
4	BW	9 ~~21~~ 28	279 246	25.7	1.6	241	1497	
5	R		250 229	23.6		220	1270	
6	Y		218 198	20.5		189	1110	
7	BW	9 ~~25~~ 31	198 171	18.0	1.6	164	1018	
8	R		172 138	14.9		133	900	
9	Y		142 119	12.7		111	808	
10	BW	9 ~~27~~ 34	141 102	11.5	1.7	98	732	
11	R		106 81	8.9		72	653	
12	Y							
13	BW							

Boat 87+50 S

3-19-53

F.B. 1886 PG. 32

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

Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.

Survey by FHB Notes KRK Notes Chkd. KRK Checked

Indexed A. C. Johnson Date Date 4-21-53 Date No.

76L298 307 5-49

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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 ∡			
					Inst at S-3A			
					Sight on 77+50			
77+50	0 68	30 60		29 92	0	1		1X2
			1 7	28 9	4	52	20	Brk.
			11 8	18 8	12	00	53	"
T.P.	1 80	17 47	14 93	15 67	19	30	89	"
			1 5	16 0	27	27	130	"
T.P.	1 75	6 63	12 59	04 88	42	08	226	"
			5 6	1 0	47	07	271	under water
			8 4	-1 8	53	30	340	" "
			12 5	-5 9	65	40	557	" "
			14 8	-8 2	73	08	830	" "
			13 3	-6 7	73	28	850	" "
			16 0	-9 4	71	33	732	" "

Profile Notes Red. Plotted Job No. Division No.

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

No. Date 4-14-53 Date Map No. Indexed Job No. Date

Inshore

F.B. [illegible] PG. 32

76L298 307 5-49

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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 ∡		
					Inst. at	67+50	
					Sight on	72+50	
72+50	1 92	31 37		29 45			1X2
			1 6	29 8	2° 59'	25	Br.K.
T.P.	0 74	18 36	13 75	1[illegible] 62	6 51	60	"
			2 7	15 7	10 16	101	"
			3 0	15 4	14 29	130	"
			6 0	12 4	19 58	183	"
T.P.	1 65	7 65	12 36	6 00	24 56	231	"
			6 5	1 2	28 58	278	under water
			10 0	-2 3	33 00	326	" "
			9 7	-2 0	38 01	392	" "
			9 9	-2 2	42 04	453	" "
			10 8	-3 1	45 09	505	" "
			12 2	-4 5	47 29	548	" "
			13 7	-6 0	49 49	593	" "
			15 5	-7 9	51 36	633	" "

Inshore 72+50 S.

F.B. 1884 PG. 34
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Cour. Checked No.
Indexed C. Johnson Date Date 4-14-53 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.		
Inst. Sight At 82+50	On S-4	# Color	Time	Hor. Ang.		Remarks RANGE 82+50-S
	1	B+W	9:52	90° 00'	✓	
	2	R		90° 00'	✓	
	3	Y		90° 00'	✓	
	4	B+W	9:55	90° 00'	✓	
	5	R		90° 00'	✓	
	6	Y		90° 00'	✓	
	7	B+W	10:00	90° 22'	✓	
	8	R		89° 11'	✓	
	9	Y		90° 00'	✓	
	10	B+W	10:03	89° 24'	✓	
	11	R		90° 00'	✓	
	12	Y		90° 00'	✓	

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

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

No. Date Date Map No. Indexed Date

F. B. 1884 Pg. 35

RANGE 82+50-S

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.	3-19-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 77+50-S
77+50	S-4	1	B+W	10:18	89° 40'	✓	
		2	R		89° 39'	✓	
		3	Y		90° 09'	✓	
		4	B+W	10:22	89° 31'	✓	
		5	R		89° 19'	✓	
		6	Y		90° 00'	✓	
		7	B+W	10:29	89° 17'	✓	
		8	R		90° 34'	✓	
		9	Y		90° 57'	✓	
		10	B+W	10:34	90° 26'	✓	
		11	R		90° 00'	✓	

RANGE 77+50 S

F. B. 1884 PG. 36 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date ____ Date ____ No. ____
Survey by E.H.B. Notes J.S. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed C. Johnson Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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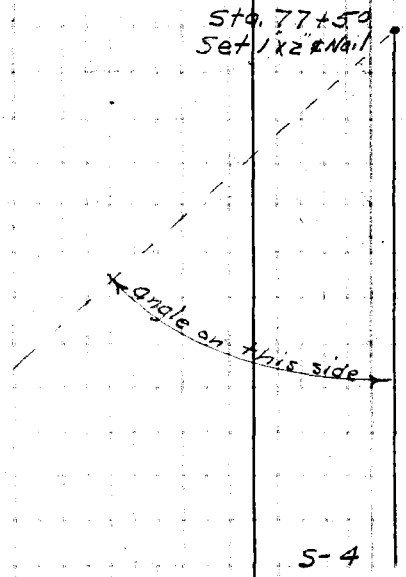
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
77+50	S-4	1	B&W	9:51	76° 35'	✓	Cut in 82+50
		2	R		75° 14'	✓	
		3	Y		73° 03'	✓	
		4	B&W	9:55	70° 05'	✓	
		5	R		66° 54'	✓	
		6	Y		62° 47'	✓	
		7	B&W	10:00	61° 35'	✓	
		8	R		58° 55'	✓	
		9	Y		57° 41'	✓	
		10	B&W	10:03	55° 23'	✓	
		11	R		53° 29'	✓	
		12	Y		50° 06'	✓	



Cut in 82+50

Profile Notes Red. Plotted Job No. 9412 Division No. F. B. 1884 Pg. 37

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

No. Date Date Map No. Reviewed Date

76L298 307 4-50

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F. B. 1884 Pg. 38 | Job No. 8412 Division No. X | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | No. | X-Sec.
Survey by F. H. B. | Notes Chkd. | Checked
Indexed C. Johnson | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
82+50	S-3	1	B&W	10 18	77 54'	✓	Cut in 77+50
		2	R		76 34'	✓	
		3	Y		72 47'	✓	
		4	B&W	10 22	69 13'	✓	
		5	R		66 56'	✓	
		6	Y		63 49'	✓	
		7	B&W	10 28	63 05'	✓	angle on this side
		8	R		59 22'	✓	
		9	Y		57 43'	✓	
		10	B&W	10 34	55 08'	✓	
		11	R		54 46'	✓	

Cut in 77+50

76L298 307 10-51

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Do not extend notes this side of this line. 82+50 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance
1	BW	9 52	329 292	30.4	19	285	2104
2	R		299 290	28.0		261	1911
3	Y		290 261	27.1		252	1651
4	BW	9 55	[illegible]	25.3	19	234	1382
5	R		[illegible]	22.8		209	1177
6	Y		[illegible]	19.6		177	974
7	BW	10 00	193 157	17.0	20	150	915
8	R		176 149	15.8		138	856
9	Y		152 131	13.8		118	792
10	BW	10 03	[illegible]	12.3	21	102	740
11	R		90 90	10.7		86	678
12	Y		120 60	80 ~~9.0~~		59	600
13	BW						

3-19-53

Profile Notes Red Plotted Job No. Division No.

Notes Chkd. Checked Survey by Notes Date

Date Date Map No. Indexed Johnson Date

F.B. 1884 PG. 39

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

~~8~~ 77+50 S.

~ BOAT ~

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	10:08	30.7 29.2	29.7	21	276	2330	MEN - MOTOR
2	R		29.5 26.5	27.5	21	254	1946	RSON
3	Y		28.5 26.0	26.8	22	246	1632	ELAND - NOTES
4	BW	10:22	26.0 23.5	24.3	23	220	1300	
5	R		23.9 21.9	22.6		203	1134	
6	Y		22.3 19.8	20.6		183	1022	
7	BW	10:29	21.0 17.5	18.7	24	163	970	Kuguman Anderson Stang Bland
8	R		18.0 15.0	16.0		136	864	
9	Y		15.0 13.5	14.0		116	823	
10	BW	10:34	13.5 11.5	12.2	24	98	754	
11	R		13.5 8.0	9.8		74	711	
12	Y							

Boat 77+50S

3-19-53

F.B. 1884 PG. 40 Job No. 8412 Division No. Notes Red. Lew. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.
Survey by F.H.B. Notes A.G.S. Notes Chkd. FRK Checked No.
Indexed C. Johnson Date Date 4-21-53 Date

76L298 307 5-49

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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.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 62+50		
					Sight on 67+50		
67+50	2 10	31 85		29 75			1x2
			2 3	29 6	2° 26'	21	Brk.
			11 5	20 4	6 00	55	"
T.P.	0 63	~~19 00~~ 18 90	13 58	18 27	7 47	70	"
			3 3	15 ~~7~~ 6	11 14	100	"
			3 1	15 ~~9~~ 8	16 32	150	"
			6 0	~~13 0~~ 12 9	21 12	196	"
T.P.	0 29	~~8 04~~ 7.94	11 25	7 ~~75~~ 65	24 52	254	"
			4 7	3 ~~3~~ 2	30 10	304	under water
			8 0	-0 ~~0~~ 1	34 52	350	" "
			9 1	-1 ~~1~~ 2	36 55	377	" "
			9 6	-1 ~~6~~ 7	41 48	449	" "
			10 7	-2 ~~7~~ 8	48 46	572	" "
			12 2	-4 ~~2~~ 3	51 52	640	" "
			14 5	-6 ~~5~~ 6	54 47	710	" "

Inshore

62+50 S.

Profile Notes Red. Plotted Job No. Division No.

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

No. Date 4-14-53 Date Map No. Indexed Johnson Date

F.B. 4/VII PG. 41

76L298 307 5-49

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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.	Cut-in ∡		
					Inst. at 57+50		
					Sight on 62+50		
62+50	1 40	30 19		28 19			1X2
			2 8	27 4	3° 11'	28	Brk.
			11 1	19 1	6 59	61	"
T.P.	1 99	17 40	14 78	15 41	11 36	104	"
			1 8	15 6	18 53	172	"
T.P.	0 18	8 28	9 30	8 10	25 40	242	"
			5 1	3 2	30 20	296	under water
			10 0	-1 7	41 19	442	" "
			11 1	-2 8	46 23	530	" "
			13 1	-4 8	48 49	578	" "
			13 1	-4 8	50 10	602	" "
			15 3	-7 0	52 59	667	" "
			17 5	-9 2	55 51	741	" "

Inshore 62+50 S.

F.B. 1884 PG. 42
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes Checked
Indexed R. C. Johnson Date Date 4-14-53 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.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 72+50
72+50	S-3 1	B+W	11:06	90° 00'	✓	
	2	R		89° 30'	✓	
	3	Y		81° 31'	✓	
	4	B+W	11:11	90° 26'	✓	
	5	R		91° 09'	✓	
	6	Y		90° 51'	✓	
	7	B+W	11:17	90° 29'	✓	
	8	R		90° 52	✓	
	9	Y		90° 00	✓	
	10	B+W	11:24	90° 00	✓	

Range 72+50

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1880 Pg. 43

Notes Chkd. Checked Survey By Notes Date

No. Date Date Map No. Date

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.	3-19-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 67+50
67+50	S-3	1	B+W	11 40	90°31'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	11:46	90°00'	✓	
		5	R		89°10'	✓	
		6	Y		89°18'	✓	
		7	B+W	11:50	90°00'	✓	
		8	R		88°50'	✓	
		9	Y		90°00'	✓	
		10	B+W	11:52	90°00'	✓	
		11	R		90°00'	✓	

RANGE 67+50 S

F. B. 1884 Pg. 44 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by EHB Notes JS Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

76L298 307 4-50

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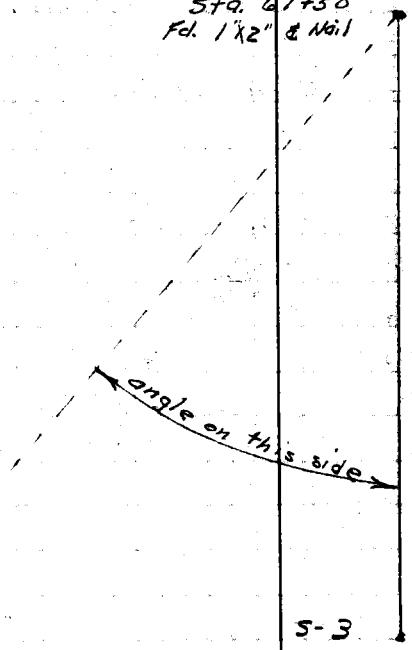
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
67+50	S-3	1	B&W	11 06	74° 03' ✓	Cut in 72+50
		2	R		70° 20' ✓	Sta. 67+50 Fd. 1"x2" & Nail
		3	Y		67° 09' ✓	
		4	B&W	11 11	63° 44' ✓	
		5	R		65° 44' ✓	
		6	Y		63° 03' ✓	
		7	B&W	11 17	61° 19' ✓	
		8	R		58° 03' ✓	
		9	Y		54° 26' ✓	
		10	B&W	11 24	51° 02' ✓	



Profile Notes Red. Plotted Job No. 8417 Division No.
X-Sec. Notes Chkd. Checked Survey By Notes Date
No. Date Date Map No. Date
F. B. 1884 Pg. 45

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.

F. B. 1880 Pg. 46 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 Notes Chkd. Checked
Indexed J. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
62+50 S-3	1	B&W	11:40	73° 46'	✓	Cut in 67+50
	2	R		6[illegible]° 45'	✓	
	3	Y		64° 45'	✓	Sta. 62+50 set 1x2 & Nail,
	4	B&W	11:46	62° 34'	✓	
	5	R		59° 07'	✓	
	6	Y		59° 24'	✓	
	7	B&W	11:49	56° 34'	✓	
	8	R		55° 30'	✓	
	9	Y		54° 57'	✓	angle on this side
	10	B&W	11:52	54° 12'	✓	
	11	R		52° 35'	✓	
Cut in 67+50						S-3

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. ~~RANGE~~ 72+50

STATION		B.S.	H.I.	F.S.	ELEV.			~ BOAT ~
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks GOOD SURF
1	BW	11:06	29.5 27.6	28.2	27	25.5	1760	Kvamman AMEN - MOTOR
2	R		27.0 25.1	25.7		23.0	1440	PERSON [illegible]
3	Y		25.3 21.5	22.8		20.1 (90 off)	1870 (?)	GELAND - [illegible]
4	BW	11:11	22.9 18.9	20.2	28	17.4	1002	Anderson
5	R		20.9 15.1	19.0		16.2	1068	stangland
6	Y		15.2 15.0	16.7		13.9	961	
7	BW	11:17	[illegible]	15.4	28	12.6	902	
8	R		13.2 13.1	13.8		11.0	790	
9	Y		12.3 10.9	11.4		8.6	700	
10	BW	11:24	13.4 9.0	9.8	29	6.9	621	
11	R							
12	Y							
13	BW							
14								

3-19-53

~~RANGE~~ 72+50

~~RANGE~~ 72+50.5

Profile

Notes Red [illegible] Plotted _____ Job No. _____ Division No. _____

F.B. 1884 PG. 47

Notes Chkd. [illegible] Checked _____ Survey by _____ Notes _____ Date _____

No. _____ Date 4-21-53 Date _____ Map No. _____ Indexed C. Johnson Date _____

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. ~~Range~~ 67+50 S.

~ Boat ~

STATION #	Color	B.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	11:40	30.0 27.5	28.3	30	253	1677	MEN - ~~Motor~~ LEAD
2	R		27.0 25.2	25.8		228	1360	PERSON - LEAD OARS
3	Y		26.0 22.0	23.3		203	1063	WIGELAND - NOTES
4	BW	11:46	21.0 18.2	19.1	30	161	970	[illegible]
5	R		17.8 15.0	15.9		129	859	
6	Y		17.9 16.0	16.6		136	863	SEQUENCE
7	BW	11:50	14.0 11.7	12.5	31	94	762	
8	R		13.4 10.5	11.5		84	738	
9	Y		13.0 9.1	10.4		73	711	[illegible]
10	BW	11:52	10.6 8.1	8.9	31	58	692	
11	R		10.2 7.3	8.3		52	657	
12	Y							
13	BW							

~~Range~~ 67+50S

Boat 67+50S

F.B. 1884 Pg. 48 Job No. 8412 Division No. V Notes Red. [illegible] Plotted No. Profile

Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.

Survey by F.H.B. Notes A.C.S. Notes Chkd. KRK Checked No.

Indexed A. C. Johnson Date Date 4-21-53 Date

76L298 307 5-49

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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.	Cut-in ∡		
					Inst. at S-2		
					Sight on 57+50		
57+50	0 51	28 91		28 40			1x2
38' L.			3 0	25 9			Brk.
T.P.	0 50	16 49	12 92	15 99	38° 30'	100	"
			3 3	13 2	60 37	215	"
			7 0	9 5	64 28	255	"
T.P.	1 58	6 19	11 88	4 61	67 56	301	"
			5 1	1 1	69 51	342	under water
			7 6	-1 4	73 13	407	" "
			8 0	-1 8	76 41	521	" "
			9 2	-3 0	78 16	595	" "
			13 2	-7 0	81 02	790	" "
			16 0	-9 8	81 16	820	" "

Profile Notes Red. Plotted Job No. Division No.

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

No. Date 4-14-53 Date Map No. Indexed Date

F.B. 1111 PG. 49

Inshore

57+50 S.

76L298 307 5-49

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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.	Cut-in ∡	
					Inst. at S-2	
					Sight on 52+50	
52+50	0 05	29 02		28 97		N.&T.
32' L.			5 4	23 6		Brk.
T.P.	0 06	17 26	11 82	17 20	13° 28' 91	"
			3 5	13 8	29 31 212	"
T.P.	1 77	7 44	11 59	05 67	37 23 290	"
			5 9	1 5	41 04 330	under water
			9 5	-2 1	46 32 398	" "
			12 1	-4 7	53 59 520	" "
			11 5	-4 1	60 29 664	" "
			16 5	-9 1	63 32 760	" "

Inshore 52+50 S.

F.B. 1884 Pg. 50
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed C. Johnson Date Date 4-14-53 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.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks RANGE 62+50
62+50	S-3	1	B+W	12:04	89°26'	✓
		2	R		89° 46'	✓
		3	Y		91° 05'	✓
		4	B+W	12:11	90° 00'	✓
		5	R		90° 00'	✓
		6	Y		90° 50'	✓
		7	B+W	12:15	91° 12'	✓
		8	R		90° 00'	✓
		9	Y		91° 21'	✓
		10	B+W	12:27	91° 01'	✓

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1884 Pg. 51

Notes Chkd. Checked Survey by Date

No. Date Date Map No. Date

ANGLE 62+50

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.	3-23-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 57+50
57+50	S-3	1	B&W	7:03	90°35'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B&W	7:11	91°28	✓	
		5	R		90°00'	✓	
		6	Y		90°27'	✓	
		7	B&W	7:15	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B&W	7:21	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B&W	7:26	90°00'	✓	
		14	R		90°00'	✓	
		15	Y		90°00'	✓	
		16	B&W	7:29	90°00'	✓	

RANGE 57+50 S

F. B. 1884 Pg. 52
Job No. 8412 Division No.
Survey of BEACH EROSION STUDIES
Survey by F.H.B. Notes U.S.
Indexed C. Johnson Date
Notes Red. Date Plotted Date No.
Notes Chkd. Date Checked Date No.
Profile X-Sec.

76L298 307 4-50

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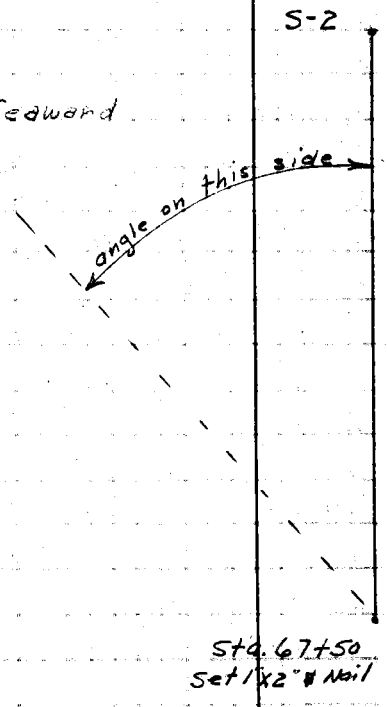
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
67+50	S-2	1	B&W	12:04	76°09'	✓ Cut in	62+50
		2	R		70°08'	✓	S-2
		3	Y		63°57'	✓	
		4	B&W	12:11	64°02'	✓ Went Seaward	
		5	R		62°24'	✓	
		6	Y		61°11'	✓	
		7	B&W	12:15	58°53'	✓	
		8	R		59°14'	✓	
		9	Y	12:24	52°34'	✓	
		10	B&W	12:27	54°46'	✓	



Profile Notes Red. _____ Plotted _____ Job No. 8212 Division No. _____

Notes Chkd. _____ Checked _____ Survey by _____ Notes _____ Date _____

No. _____ Date _____ Date _____ Map No. _____ Indexed Johnson Date _____

F. B. 1884 Pg. 53

Cut in 62+50S

76L29B 307 4-50

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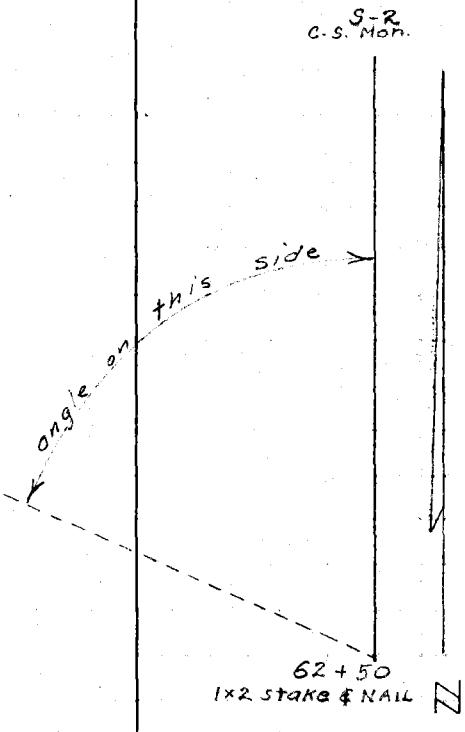
F. B. 1880 Pg. 54 | Job No. 8412 Division No. | Notes Red | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No. | X-Sec.
Survey by F.H.B. | Notes | Notes Chkd. | Checked | No.
Indexed L. C. Johnson | Date | Date | Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
62+50	S-2	1	B & W	7 03	76 44	✓	Cut in 57+50
		2	R		75 02	✓	
		3	Y		[illegible] 25	✓	
		4	B & W	7 11	[illegible] 54	✓	
		5	R		[illegible] 12	✓	
		6	Y		6[illegible] 21	✓	
		7 ~~8~~	B & W	7 15	[illegible] 41	✓	
		8 ~~9~~	R		61 23	✓	
		9 ~~10~~	Y		6[illegible] 35	✓	
		10 ~~11~~	B & W	7 21	[illegible] 37	✓	
		11 ~~12~~	R		[illegible] 55	✓	
		12 ~~13~~	Y		5[illegible] 35	✓	
		13 ~~14~~	B & W	7 26	[illegible] 55	✓	
		14 ~~15~~	R		55 05	✓	
		15 ~~16~~	Y		52 59	✓	
		16 ~~17~~	B & W	7 29	50 41	✓	

CUT IN 57+50



76L298 307 10-51

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726 LOS ANGELES COUNTY
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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. RANGE 62+50 S

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	11:48	29.4 28.0	28.5	31	25.4	1962	MMEN - MOTOR & LEAD
2	R		28.0 25.5	26.3		23.2	1375	DERSON - ANGELSON CARS
3	Y		24.0 21.7	22.5		19.4	1071	ANGELAND - NOTE
4	BW	11:54	22.0 20.2	20.8	31	17.7	990	[illegible] & CHOPPY
5	R		21.2 19.0	19.7		16.6	961	
6	Y		22.0 16.9	18.6		15.5	900	
7	BW	11:59	19.3 15.4	16.7	31	13.6	862	
8	R		19.0 15.0	16.3		13.2	843	
9			12.8 9.8	10.3		7.2	657	[illegible] Y CHOPPY
10	[illegible]	[illegible]		12.7	32	9.5	730	[illegible]
11	R							
12								
13	BW							

~ BOAT ~

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

F.B. 1884 Pg. 55

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

Date 4-21-53 Date ___ Map No. ___ Indexed ___ Date ___

~~[illegible]~~ 62+50 S
Boat 62+50 S

F.B. 1884 PG. 56 Job No. Division No. Notes Red. Plotted

Survey of Date Date

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date

Profile No.

X-Sec.

76L298 307 10-51

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 5-49

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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 ∡		
					Inst. at 52+50		
					Sight on 47+50		
47+50	0 30	29 31		29 01			N.& T.
32' L.			6 5	22 8			Brk.
55' L.			11 1	18 2			"
T.P.	0 36	16 17	13 50	15 81	10° 51'	97	"
			5 7	10 5	25 39	240	"
T.P.	1 18	6 40	10 95	05 22	30 22	293	"
			5 9	0 5	33 48	338	under water
			8 5	-2 1	39 53	420	" "
			7 9	-1 5	45 19	510	" "
			10 4	-4 0	51 20	629	" "
			16 5	-10 1	57 28	790	" "

Profile Notes Red. Plotted Job No. 0410 Division No.

X-Sec. Notes Chkd. [illegible] Checked Survey by English Notes English Date 3-23-53

No. Date 4-14-53 Date Map No. Indexed Date

Inshore

F.B. 94011 PG. 67

76L298 307 5-49

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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 ∡		
					Inst. at	47+50	
					Sight on	42+50	
42+50	1 10	29 55		28 45			1x2
50' L.			10 9	18 7			Brk.
T.P.	1 74	18 05	13 24	16 31	10° 21'	108	"
			5 9	12 2	20 54	192	"
			6 2	11 9	23 45	221	"
			10 2	7 9	28 40	274	"
T.P.	0 60	4 98	13 67	4 38	30 55	301	"
			5 5	-0 5	35 30	359	under water
			7 5	-2 5	40 51	432	" "
			9 5	-4 5	47 11	542	" "
			10 4	-5 4	50 40	615	" "
			12 4	-7 4	54 26	700	" "
			17 2	-12 2	57 14	782	" "

Inshore
42+50 S.

F.B. 1884 PG. 58
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed [illegible] C. Johnson Date Date 4-14-53 Date

Map No.
Office Work
Checked
Date

W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed A. C. Johnson

March 23 1953

Time	Gage	
0600	4.3	Santa Monica Pier
0630	3.80	
0700	3.5	
0730	3.2	
0800	2.8	
0830	2.3	
0900	1.8	
0930	1.3	
1000	0.9	
1030	0.6	
1100	0.4	
1130	0.3	
1200	0.2	
1230	0.3	
1300	0.4	
1330		
1400		

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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76F309S 247 2-51

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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.

1400 1330 1300 1230 1200 1130 1100 1030 1000 0930 0900 0830 0800 0730 0700 0630 0600

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7

F.B. 1884 Pg. 60

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.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	# Color	Time	Hor. Ang.		Remarks RANGE 52+50
52+50	S-2 1	B+W	7:41	90°20'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	7:46	90°00'	✓	
	5	R		89°28'	✓	
	6	Y		90°00'	✓	
	7	B+W	7:51	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	7:57	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	8:03	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		91°11'	✓	
	16	B+W	8:08	91°42'	✓	
	17	R		88°36'	✓	
	18	Y		92°07'	✓	

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
Notes Chkd. Checked Survey by A. C. Johnson
No. Date Date Map No. Indexed Date

F. B. 1884 PG. 61

RANGE 52+50 S

76L298 307 4-50

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F. B. 1894 Pg. 62
Job No. 8412 Division No.
Survey of BEACH EROSION STUDIES
Survey by E.H.B. Notes J.S.
Indexed J. C. Johnson Date
Profile No.
X-Sec. No.
Plotted Date
Checked Date
Notes Red Date
Notes Chkd. Date

STATION	B. S.	H. I.	F. S.	ELEV.	3-23-53	
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 47+50
47+50 S-2	1	B&W	8:34	89°46'	✓	
	2	R		89°33'	✓	
	3	Y		89°25'	✓	
	4	B&W	8:40	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		89°35'	✓	
	7	B&W	8:46	89°16'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B&W	8:51	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B&W	8:55	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°00'	✓	
	16	B&W	8:56	90°00'	✓	

RANGE 47+50 S

76L298 307 4-50

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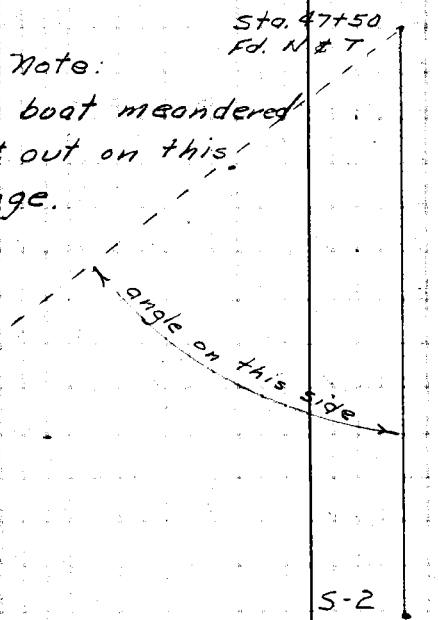
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight Kt On	#	Color	Time	Hor. Ang.		Remarks
47+50 S-2	1	B & W	7 42	78° 45'	✓	Cut in 52+50
	2	R		77° 10'	✓	
	3	Y		74° 23'	✓	Note:
	4	B & W	7 47	72° 11'	✓	The boat meandered
	5	R		69° 12'	✓	in & out on this
	6	Y		65° 30'	✓	Range.
	7	B & W	7 51	66° 36'	✓	
	8	R		65° 13'	✓	
	9	Y		62° 39'	✓	
	10	B & W	7 57	61° 18'	✓	
	11	R		60° 04'	✓	
	12	Y		58° 12'	✓	
	13	B & W	8 03	58° 24'	✓	
	14	R		57° 18'	✓	
	15	Y		56° 18'	✓	
	16	B & W	8 08	56° 31'	✓	
	17	R		51° 31'	✓	
	18	Y		57° 10'	✓	



Profile Notes Red. Plotted Job No. 8412 Division No.
Notes Chkd. Checked Survey By Notes Date
No. Date Date Map No. Indexed Date
F. B. 1884 Pg. 63

76L298 307 4-50

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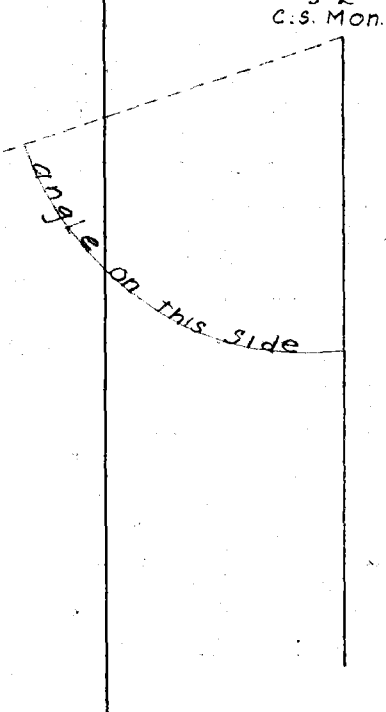
F. B. 1884 Pg. 64 Job No. 8412 Division No. Notes Red. Plotted. Profile
Survey of Beach Erosion Studies Date. No. X-Sec.
Survey by E.H.B. Notes Chkd. Checked.
Indexed [redacted] Date. Date. No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
42+50	S-2	1	B&W	8 34	78° 39'	✓ Cut in 47+50	
		2	R		77 20	✓	
		3	Y		75 09	✓	
		4	B&W	8 40	71 02	✓	
		5	R		69 15	✓	
		6	Y		65 53	✓	
		7	B&W	8 46	64 09	✓	
		8	R		63 26	✓	
		9	Y		61 50	✓	
		10	B&W	8 52	60 54	✓	
		11	R		59 17	✓	
		12	Y		57 45	✓	
		13	B&W	8 55	56 40	✓	
		14	R		55 07	✓	
		15	Y		53 19	✓	
		16	B&W	8 57	52 49	✓	

Cut in 47+50



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.

1.

Do not extend notes this side of this line. 57+50 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	7 03	319 299	30.6	35	27.1 ~~25.1~~	2220	✓
2	R		310 289	29.6		26.1	1870	✓
3	Y		294 275	28.1		24.6	1684	✓
4	BW	7 11	279 263	26.8	34	23.4	1397	✓
5	R		266 249	25.5 ~~24.5~~		22.1	1219	✓
6	Y		251 220	23.0		19.6	1110	✓
7	BW	7 16	219 199	20.6	33	17.3	1012	✓
8	R		189 171	17.7		14.4	922	✓
9	Y		201 182	18.8		15.5	970	✓
10	BW	7 21	170 155	16.0	32	12.8	857	✓
11	R		151 139	14.3		11.1	831	✓
12	Y		148 121	13.0		9.8	763	✓
13	BW	7 26	129 109	11.6	32	8.4	705	✓
14	R		130 99	10.9		7.7	720	✓
15	Y		99 86	9.0		5.8	666	✓
16	BW	7 29	99 69	7.9	32	4.7	612	✓

Boat 57+50 S

Profile

Notes Red PMC Plotted ____ Job No. P412 Division No. ____

No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

Date 4-21-53 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1884 PG. 65

76L298 307 10-51

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2.

Do not extend notes this side of this line. 52+50 S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	7 42	32 7 30 8	31.4	3.0	28.4	2498	Stangland KHND - LEAD
2	R		31 1 29 8	30.2		27.2	2180	Kraemmen JEN - RE COK
3	Y		29 3 27 8	28.3		25.3	1779	
4	BW	7 47	29 1 26 4	27.3	29	24.4	1550	
5	R		27 2 25 1	25.8		22.9	1340	
6	Y		23 0 22 8	22.9		20.0	1091	
7	BW	7 52	24 7 23 0	23.6	28	20.8	1150	
8	R		23 9 20 9	21.9		19.1	1075	
9	Y		20 7 18 9	19.5		16.7	964	
10	BW	7 57	18 7 17 1	17.6	27	14.9	910	
11	R		16 7 15 0	15.6		12.9	862	
12	Y		15 9 13 0	14.0		11.3	801	
13	BW	8 03	13 9 12 7	13.1	27	10.4	810	
14	R		13 2 10 9	11.7 ~~11.0~~		9.0	777	
15	Y		10 2 8 8	←			VOID	
16	BW	8 08	10 1 8 0	8.7	26	6.1	720	
17	R		9 2 6 9	7.7		5.1	646	
18	Y		11 1 9 5	10.0		7.4	728	

BOAT 52+50 S

F.B. 1884 PG. 66 Job No. 8412 Division No. V Notes Red. PCWF Plotted No. Profile
Survey of Beach Erosion Studies Date 4-15-53 Date X-Sec.
Survey by E.H.B. Notes KRK Notes Chkd KRK Checked No.
Indexed A. C. Johnson Date Date 4-21-53 Date

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 42+50		
					Sight on 37+50		
37+50	0 34	31 87		31 53			1x2
			2 4	29 5	2° 39'	25	Brk.
T.P.	0 10	18 19	13 78	18 09	7 42	68	"
			6 4	11 8	18 01	164	"
			6 2	~~11 0~~ 12.0	24 51	231	"
			11 6	6 6	29 40	287	"
T.P.	1 02	4 68	14 53	3 66	31 49	313	"
			6 2	-1 5	35 17	357	under water
			6 8	-2 1	40 31	430	" "
			8 5	-3 8	49 14	584	" "
			14 1	-9 4	54 32	706	" "
			15 5	-10 8	56 10	752	" "

Profile Notes Red. Plotted Job No. Division No.

X-Sec. Notes Chkd. Checked Survey by English Notes English Date 3-23-53

No. Date 4-14-53 Date Map No. 1 Indexed Date

F.B. VVII PG. 17

Inshore

37+50 S.

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 37+50		
					Sight on 32+50		
32+50	1 00	32 55 ✓		31 55 ✓		✓	1X2
			4 0	28 6 ✓	2°48'	24 ✓	Brk.
T.P.	1 23	~~21 05~~ 20 08	13 70	~~19 85~~ 18 85	7 10	63 L	"
"	3 18	~~16 61~~ 15 64	7 62	~~13 13~~ 12.46	19 25	177 ✓	"
			3 7	~~12 9~~ 12 9	27 14	259 ✓	"
T.P.	2 45	~~5 71~~ 4.74	13 35	~~3 26~~ 2.29	33 47	336 ✓	"
			5 5	~~0 2~~ -0 8	35 46	361 ✓	under water
			8 0	~~-2 3~~ -3 3	37 56	390 ✓	" "
			6 7	~~-1 9~~ -2.0	42 11	454 ✓	" "
			9 0	~~-3 3~~ -4.3	45 40	514 ✓	" "
			10 4	~~-4 7~~ -5.7	51 36	632 ✓	" "
			12 1	~~-6 4~~ -7.4	52 57	662 ✓	" "
			15 0	~~-9 3~~ -10.3	55 26	725 ✓	" "

Inshore 32+50 S.

F.B. 1884 PG. 68
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed [illegible] C. Johnson Date Date 4-14-53 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks RANGE 42+50
42+50	S-2	1	BtW	9:25	90°00'	✓
		2	R		90°00'	✓
		3	Y		90°00'	✓
		4	BtW	9:30	90°34'	✓
		5	R		89°41'	✓
		6	Y		90°00'	✓
		7	BtW	9:35	90°00'	✓
		8	R		90°37'	✓
		9	Y		90°00'	✓
		10	BtW	9:36	90°00'	✓
		11	R		91°00'	✓
		12	Y		90°38'	✓
		13	BtW	9:45	91°08'	✓
		14	R		90°00'	✓
		15	Y		90°00'	✓
		16	BtW	9:50	90°00'	✓
		17	R		90°00'	✓

RANGE 42+50

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1810 Pg. 69

No. ____ Date ____ Map No. ____ Indexed ____ 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.	3-23-53	
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 37+50
37+50 / S-2	1	B+W	10:08	89°23'	✓	
	2	R		90°38'	✓	
	3	Y		90°54'	✓	
	4	B+W	10:15	89°30'	✓	
	5	R		91°10'	✓	
	6	Y		89°23'	✓	
	7	B+W	10:24	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	10:27	90°00'	✓	

RANGE 37+85

F. B. 1884 Pg. 70
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by E.H.B. Notes J.S. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 4-50

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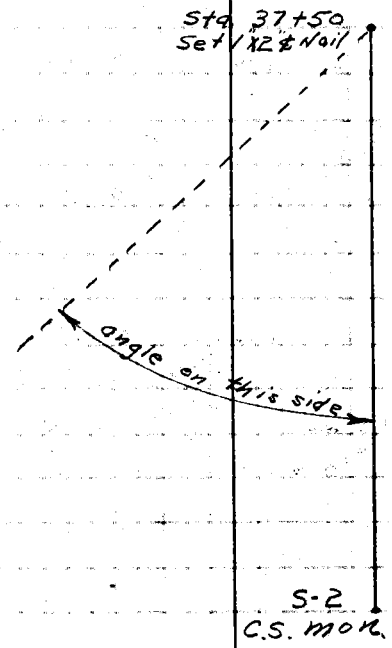
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
37+50	S-2	1	B&W	9 25	78° 49' ✓	Cut in 42+50
		2	R		77° 30' ✓	
		3	Y		75° 53' ✓	
		4	B&W	9 31	72° 27' ✓	
		5	R		68° 20' ✓	
		6	Y		66° 14' ✓	
		7	B&W	9 36	64° 17' ✓	
		8	R		63° 12' ✓	
		9	Y		62° 24' ✓	
		10	B&W	9 41	61° 28' ✓	
		11	R		60° 39' ✓	
		12	Y		59° 36' ✓	
		13	B&W	9 45	58° 33' ✓	
		14	R		58° 38' ✓	
		15	Y		57° 32' ✓	
		16	B&W	9 50	55° 36' ✓	
		17	R		54° 52' ✓	



Cut in 42+50

Profile Notes Red. Plotted Job No. 8410 Division No.
Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Date
F. B. 1884 Pg. 71

76L29B 307 4-50

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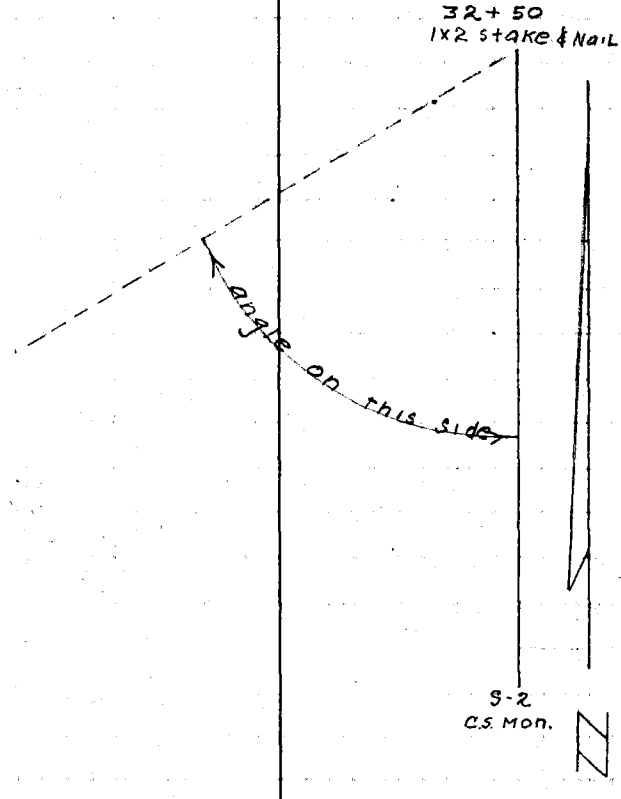
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
32+50	S-2	1	B&W	10 08	73° 40	✓	Cut in 37+50
		2	R		69 08	✓	
		3	Y		67 49	✓	
		4	B&W	10 15	6[illegible] 25	✓	
		5	R		62 41	✓	
		6	Y		60 17	✓	
		7	B&W	10 25	59 11	✓	
		8	R		5[illegible] 09	✓	
		9	Y		5[illegible] 10	✓	
		10	B&W	10 28	54 06	✓	

Cut In 37+50 S



F. B. 1884 Pg. 72
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 Notes Chkd. Checked
Indexed L. C. Johnson Date 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. 47+50S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 34	321 299	30.6	22	28.4	2580	
2	R		311 290	29.7	22	27.5	2333	
3	Y		283 268	27.3	21	25.2	1720	
4	BW	8 41	270 258	26.2	20	24.2	1459	
5	R		265 247	25.3		23.3	1324	
6	Y		244 225	23.1		21.1	1139	
7	BW	8 46	233 211	21.8	20	19.8	1068	
8	R		214 196	20.2		18.2	1000	
9	Y		204 179	18.7		16.7	940	
10	BW	8 50	179 158	16.5	20	14.5	903	
11	R		159 138	14.5		12.5	843	
12	Y		147 120	12.9		10.9	798	
13	BW	8 54	122 108	11.3	19	9.4	765	
14	R		104 89	9.4		7.5	720	
15	Y		105 78	8.7		6.8	672	
16	BW	8 57	90 68	7.5	19	5.6	660	

Boat 47+50S

Profile

Notes Red ____ Plotted ____ Job No. 8410 Division No. ____

Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date 4-21-53 Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1884 PG. 73

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line. 42+50 S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	9 27	31 3 / 29 4	30.0	13	28.7 ✓	2560	
2	R		30 1 / 28 5	29.0		27.7 ✓	2279	✓
3	Y		29 1 / 27 7	28.2		26.9 ✓	2002	✓
4	BW	9 32	27 2 / 25 5	26.1	13	24.8 ✓	1564	✓
5	R		26 9 / 24 1	25.0		23.7 ✓	1228	✓
6	Y		23 5 / 21 9	22.4		21.1 ✓	1141	✓
7	BW	9 36	22 0 / 20 5	21.0	12	19.8 ✓	1042	✓
8	R		20 5 / 18 5	19.2		18.0 ✓	973	✓
9	Y		20 0 / 17 4	18.3		17.1 ✓	961	[illegible]
10	BW	9 42	19 0 / 16 5	17.3	12	16.1 ✓	924	✓
11	R		16 9 / 14 5	15.3		14.1 ✓	866	[illegible]
12	Y		17 4 / 13 1	~~14.5~~ 14.5		13.3 ✓	840	✓
13	BW	9 45	14 5 / 11 5	12.5	11	11.4 ✓	796	✓
14	R		14 2 / 12 0	12.7		11.6 ✓	825	[illegible]
15	Y		14 0 / 10 9	11.9		10.8 ✓	790	✓
16	BW	9 51	12 0 / 9 0	10.0	11	8.9 ✓	730	✓
17	R		12 0 / 6 8	8.5		7.4 ✓	711	✓

Boat 42+50 S

F.B. 1884 PG. 74 Job No. 8412 Division No. Notes Red. LWW Plotted No. Profile
Survey of Beach Erosion Studies Date 4-15-53 Date X-Sec.
Survey by F. H. B. Notes K.R.K. Notes Chkd. KRK Checked No.
Indexed C. Johnson Date Date 4-21-53 Date

761298 307 4-60

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. 37+50.5

~BOAT~

STATION #	Color	B. S. Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	10:08	29.3 26.4	27.4	0.8	26.6 ✓	1771	MEN - LEAD
2	R		26.0 24.0	24.7		23.9 ✓	1280	NGELAND - N
3	Y		24.0 21.8	22.5		21.7 ✓	1183	✓
4	BW	10:15	21.0 19.2	19.8	0.7	19.1 ~~19.0~~	1023	✓
5	R		19.2 17.4	18.0 ~~17.7~~		17.3 ✓	938	✓
6	Y		16.9 15.0	15.6		14.9 ✓	896	✓
7	BW	10:25	14.4 12.7	13.3	0.7	12.6 ✓	842	✓
8	R		13.6 11.0	11.9		11.2 ✓	780	✓
9	Y		11.4 9.9	10.4		9.7 ✓	721	✓
10	BW	10:27	9.3 8.0	8.4	0.6	7.8 ✓	693	✓
11	R							
12	Y							
13	BW							
14	R							
15	Y							
16	BW							

Profile Notes Red. PMF Plotted Job No. SAW Division No. F. B. 1884 Pg. 75

X-Sec. Notes Chkd. NKS Checked Survey By Notes Date

No. Date 4-21-53 Date Map No. Date

BOAT 37+50.5

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. 32+50 So.

~ BOAT ~

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	BW	10:45	28.7 27.5	27.9	0.5	27.4	12030 MEN-LEAD
2	R		28.7 26.5	27.2		26.7	1780 GELAND-NOTES
3	Y		26.7 25.3	25.8		25.3	1548
4	BW	10:49	25.3 24.0	24.4	0.5	23.9	1390
5	R		24.6 22.5	23.2		22.7	1190
6	Y		22.1 20.2	20.8		20.3 ~~20.2~~	1089
7	BW	10:53	20.8 19.0	19.6	0.4	19.2	1019
8	R		19.0 17.0	17.7		17.3	942 S WITH PIN (A WHILE)
9	Y		17.0 15.8	16.2		15.8	879
10	BW	11:06	15.9 14.2	14.8	0.4	14.4	870
11	R		15.0 13.3	13.9		13.5	835
12	Y		14.0 11.2	12.1		11.7	786
13	BW	11:09	9.0 6.8	7.5	0.4	7.1	700 SEQUENCE - !
14	R		10.0 7.8	8.5		8.1	710
15	Y		10.8 9.0	9.6		9.2	713
16	~~BW~~						
17							

BOAT 32+50 S

3-23-53

F. B. 1884 Pg. 76 Job No. 8412 Division No. X Notes Red. RWF Plotted Profile
Survey of Beach Erosion Studies Date 4-15-53 Date No. X-Sec.
Survey by E.H.B. Notes A.C.S. Notes Chkd. KRK Checked
Indexed C. Johnson Date Date 4-21-53 Date No.

76L298 307 5-49

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.	Cut-in ∡		
					Inst. at 32+50		
					Sight on 27+50		
27+50	1 60	30 62		29 02		✓	1x2
			1 7	28 9	1° 58'	18 ✓	Brk.
			12 7	17 9	8 35	75 ✓	"
T.P.	0 72	~~16 05~~ 16.75	14 59	16 03	12 19	110 ✓	"
			4 8	11 ~~2~~ 9	22 48	206 ✓	"
			4 6	~~11 4~~ 12 2	30 12	291 ✓	"
T.P.	0 32	~~3 41~~ 4.11	12 96	~~3 09~~ 3.79	35 05	352 ✓	"
			5 4	-2 0 3	37 31	384 ✓	under water
			4 8	-~~1 4~~ 0 7	40 58	434 ✓	"
			6 4	-~~3 0~~ 2.3	47 18	542 ✓	"
			11 0	-~~7 6~~ 6.9	53 18	648 ✓	"
			15 8	-~~12 4~~ 11.7	57 13	780 ✓	"

Profile Notes Red. Plotted Job No. Division No.

X-Sec. Notes Chkd. [illegible] Checked Survey by [illegible] Notes [illegible] Date 3-2-[illegible]

No. Date 4-14-53 Date Map No. [illegible] Date

F.B. [illegible] PG. 77

Inshore

22+50 S.

76L298 307 5-49

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.	Cut-in ∡	
					Inst. at S-1	
					Sight on 22+50	
22+50	1 80	31 61 ✓		29 81 ✓	✓	1X2
			1 7	29 9 ✓	3° 42' 18 ✓	BrK.
T.P.	0 32	18 67 ✓	13 26	18 35 ✓	12 09 84 ✓	"
			8 1	10 6 ✓	30 46 217 ✓	"
			6 7	12 0 ✓	41 24 324 ✓	"
T.P.	3 50	8 55 ✓	13 62	5 05 ✓	46 12 383 ✓	"
"	1 82	4 87 ✓	5 50	3 05 ✓	47 32 401 ✓	"
			5 7 ✓	-0 8	49 28 430 ✓	under water
			7 0	-2 1 ✓	50 06 439 ✓	" "
			5 7	-0 8 ✓	53 14 491 ✓	" "
			10 0	-5 1 ✓	62 00 689 ✓	" "
			14 2	-9 3 ✓	63 23 732 ✓	" "
			15 4	-10 5 ✓	64 22 767 ✓	" "

Inshore
22+50 S.

F.B. 7884 PG. 78

Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Lewis Checked No.
Indexed [illegible] Date Date 1-14-53 Date

76L298 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.

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.		Remarks RANGE 32+50
32+50	S-2 1	B+W	10:44	89°39'	✓	
	2	R		88°55'	✓	
	3	Y		90°47'	✓	
	4	B+W	10:49	90°00'	✓	
	5	R		90°48'	✓	
	6	Y		91°31'	✓	
	7	B+W	10:53	91°10'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	11:06	90°00'	✓	
	11	R		90°45'	✓	
	12	Y		92°10'	✓	
	13	B+W	11:08	90°00'	✓	
	14	R		90°40'	✓	
	15	Y		91°18'	✓	

Profile Notes Red. Plotted Job No. Division No. F. B. 1880 Pg. 79

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

No. Date Date Map No. Indexed Date

RANGE 32+50S

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.

F. B. 1884 Pg. 80 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H.B. Notes Chkd. Checked X-Sec.
Indexed G. Johnson Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	3-23-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 27+50
27+50	S-2	1	B+W	11:26	89°23'	✓	
		2	R		90°31'	✓	
		3	Y		90°26'	✓	
		4	B+W	11:30	90°22'	✓	
		5	R		90°33'	✓	
		6	Y		90°44'	✓	
		7	B+W	11:37	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	11:34	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	

RANGE 27+00 S

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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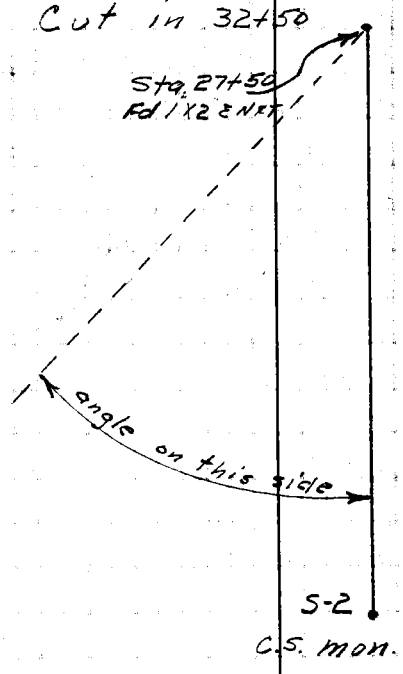
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
27+50	S-2	1	B&W	10 45	75° 34'	✓
		2	R		73° 10'	✓
		3	Y		72° 37'	✓
		4	B&W	10 49	69° 59'	✓
		5	R		67° 41'	✓
		6	Y		65° 36'	✓
		7	B&W	10.53	64° 37'	✓
		8	R		61° 56'	✓
		9	Y		60° 08'	✓
		10	B&W	11 06	59° 58'	✓
		11	R		59° 28'	✓
		12	Y		58° 41'	✓
		13	B&W	11 09	54° 14'	✓
		14	R		55° 13'	✓
		15	Y		55° 52'	✓

Cut in 32+50



Profile Notes Red. Plotted Job No. 8410 Division No.

X-Sec. Notes Chkd. Checked Survey by F.H.S. Notes Date

No. Date Date Map No. Entered Date

F. B. 1884 Pg. 81

Cut in 32+50

76L298 307 4-50

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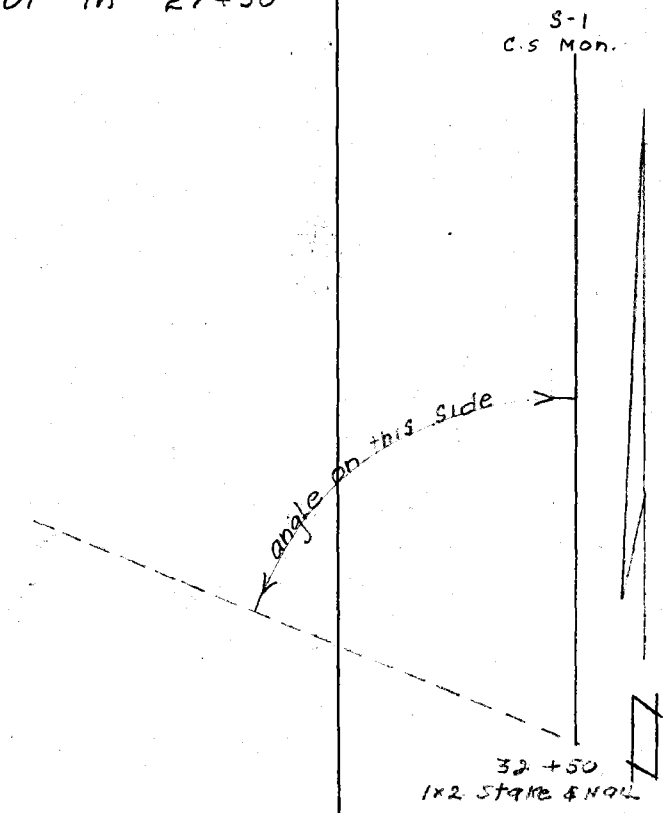
F. B. 1884 Pg. 82 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed [redacted] Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
32+50 S-1	1	B & W	11 27	75 48	✓	Cut In 27+50
	2	R		[illegible] 28	✓	
	3	Y		60 08	✓	
	4	B & W	11 31	66 44	✓	
	5	R		64 40	✓	
	6	Y		67 20	✓	
	7	B & W	11 37	62 52	✓	
	8	R		61 08	✓	
	9	Y		[illegible] 28	✓	
	10	B & W	11 40	56 58	✓	
	11	R		55 47	✓	
	12	Y		[illegible] 52	✓	

Cut In 27+50



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. 27+50 So.

~ BOAT ~

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	11:27	27.8 / 26.3	26.8	0.3	26.5	1470	AMMEN - [illegible]
2	R		26.3 / 24.5	25.1		24.8	1530	WYGELAND - [illegible]
3	Y		24.5 / 23.3	23.7		23.4	1340	
4	BW	11:31	24.0 / 21.6	22.4	0.3	22.1	1180	
5	R	/	22.4 / 19.8	20.7		20.4	1078	
6	Y		19.0 / 18.0	18.3		18.0	980	
7	BW	11:38	18.4 / 16.9	17.4	0.3	17.1	979	
8	R		17.7 / 15.2	16.0		15.7	910	
9	Y		16.2 / 13.0	14.1		13.8	850	
10	BW	11:40	14.0 / 11.5	12.3	0.2	12.1	770	
11	R		11.8 / 9.9	10.5		10.3	766	
12	Y	11:45	9.0 / 7.9	8.3	0.2	8.1	700	
13	BW							
14	R							
15	Y							
16	BW							

Boat 27+50

Profile Notes Red. Plotted Job No. Division No.

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

No. Date 4-21-53 Date Map No. Date

F. B. 1000 Pg. 83

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. 22+50 So.

~ BOAT ~

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	12:11	27.5 26.0	26.5	0.2	26.3 ✓	1987 ✓	AMEN LEAD
2	R		26.4 24.5	25.1		24.7 ✓	1820 ✓	GELAND NOTES
3	Y		25.0 23.0	23.7		23.5 ✓	1413 ✓	
4	BW	12:15	23.0 20.7	21.5	0.2	21.3 ✓	1084 ✓	Kramman Lead
5	R		22.0 19.7	20.5		20.3 ✓	1092 ✓	Stangeland Notes
6	Y		19.4 17.4	18.1		17.9 ✓	1020 ✓	
7	BW	12:21	17.0 15.2	15.8	0.3	15.5 ✓	942 ✓	
8	R		16.8 14.4	15.2		14.9 ✓	909 ✓	
9	Y		14.8 13.4	13.9		13.6 ✓	843 ✓	
10	BW	12:25	13.4 10.7	11.6	0.3	11.3 ✓	809 ✓	
11	R		13.7 12.2	12.7		12.4 ✓	830 ✓	
12	Y		9.7 8.6	8.6		8.3 ✓	710 ✓	
13	BW							

Boat 22+50 S

3-23-53

F. B. 1884 Pg. 84
Job No. 8412 Division No. Notes Red. BW Plotted No. Profile
Survey of Beach Erosion Studies Date 4-15-53 Date X-Sec.
Survey by E.H.B. Notes A.C.S. Notes Chkd. KRK Checked No.
Indexed A. O. Johnson Date Date 4-21-53 Date

76L298 307 5-49

PLEASE RETURN TO
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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.	Cut-in ∡		
					Inst. at 22+50 Sight on 17+50		
17+50	1 31	32 08		30 77			1X2
			6 3	25 8	5° 47'	50	Brk.
T.P.	0 86	19 50	13 44	18 64	9 37	89	"
			5 2	14 3	26 09	249	"
			8 3	11 2	29 25	284	"
			6 2	13 3	35 30	299	"
			8 8	10 7	36 09	370	"
T.P.	2 70	8 30	13 90	5 60	38 51	406	"
"	2 45	5 75	5 00	3 30	40 05	424	"
			5 7	+0 1	40 17	427	under water
			8 3	-2 5	41 50	451	" "
			5 6	+0 2	44 48	502	" "
			7 9	-~~3 1~~ 2.1	50 05	602	" "
			11 8	-6 0	54 20	701	" "
			15 3	-9 5	58 01	809	" "

Inshore

Profile Notes Red. Plotted Job No. Division No. F.B. PG. 9

X-Sec. Notes Chkd. [illegible] Checked Survey by English Notes English Date 3-23-53

No. Date 4-14-53 Date Map No. Date

12+50 S.

76L298 307 5-49

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.	Cut-in ∡		
					Inst at 9+00		
					Sight on 12+50		
12+50	0 91	30 36		29 45			N.&T.
T.P.	1 46	15 42	16 40	13 96	24° 27'	158	Brk
			5 5	9 9	38 51	280	"
			2 8	12 6	47 35	380	"
			5 0	10 4	48 10	390	"
T.P.	3 24	9 99	8 67	6 75	50 29	422	"
"	1 32	5 81	5 50	4 49	51 49	442	under water
			6 6	-0 8	53 33	471	"
			6 5	-0 7	57 25	547	"
			8 4	-2 6	60 35	620	"
			10 4	-4 6	62 42	674	"
			12 2	-6 4	64 01	714	"
			13 8	-8 0	65 13	758	"
			15 6	-9 8	66 33	803	"

Inshore
12+50 S.

F.B. 1884 PG. 86
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Lew Checked No.
Indexed R. C. Johnson Date Date 4-14-53 Date

F. B. 1864 Pg. 87

Map No. _____ W. O. _____ Tape No. _____ St'd _____ °F
Office Work _____ Surveyed by _____
Checked _____ Notes _____ Date _____
Date _____ Indexed _____

MARCH 24, 1953 S.M. PIER

arm not working
back in service
at 8:05

TIME	GAGE
0800	3.3
0830	2.9
0900	2.5
0930	1.8
1000	1.4
1030	1.0
1100	0.7
1130	0.4
1200	0.3

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

Do not extend notes this side of this line.

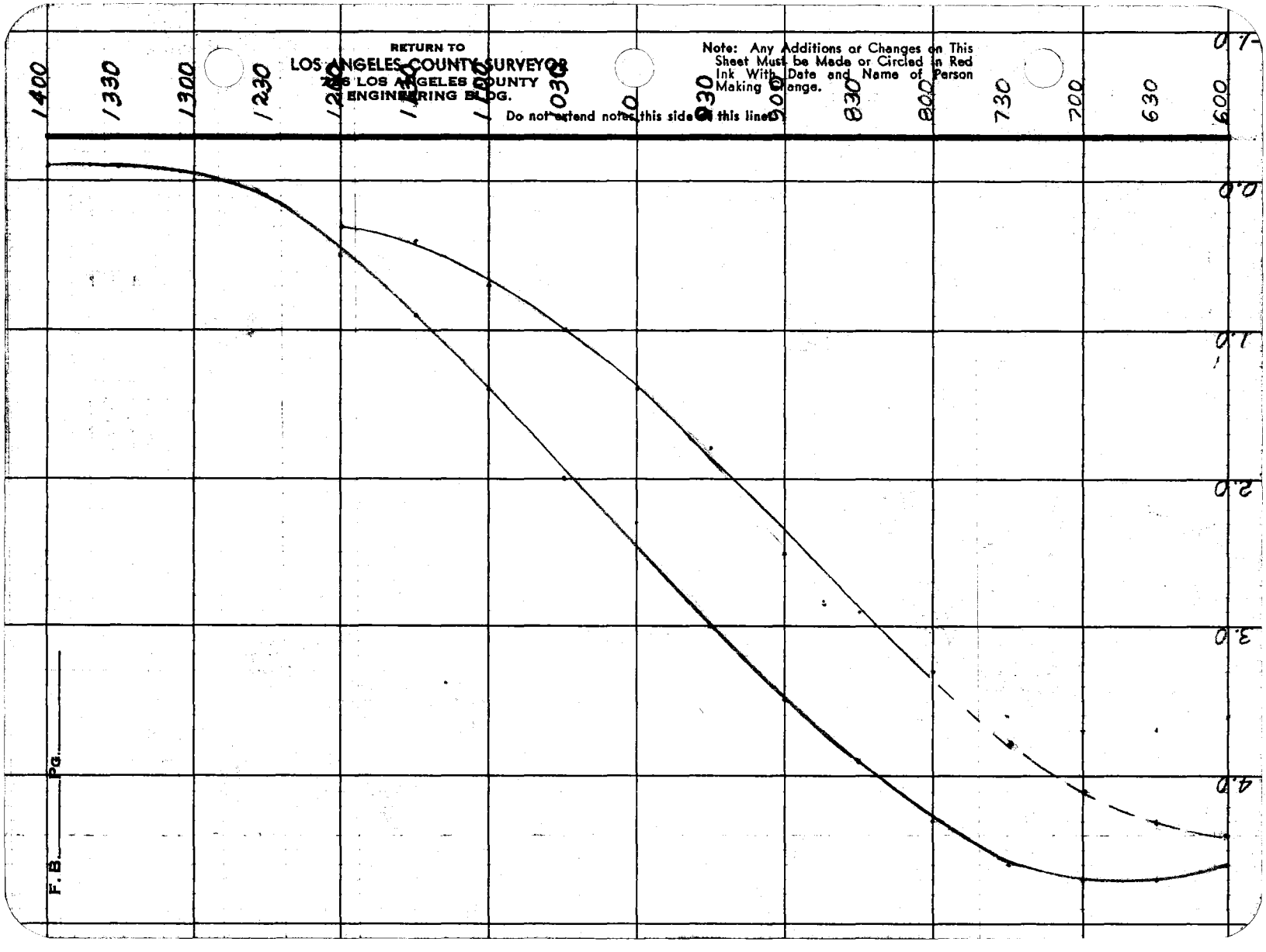
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F308S 247 2-51

RETURN TO
LOS ANGELES COUNTY SURVEYOR
226 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. _____ PG. _____

76L298 307 4-50

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	On	# Color	Time	Hor. Ang.		Remarks RANGE 22+50
22+50	S-1 1	B&W	12:10	90°00'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B&W	12:14	91°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B&W	12:20	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B&W	12:24	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00	✓	

RANGE 22+50 S

Profile Notes Red. Plotted Job No. R412 Division No. F. B. 1884 PG. 89

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

No. Date Date Map No. Indexed A. C. Johnson Date

Date

76L298 307 4-50

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.	3-24-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 17+50
17+50	S-1	1	B+W	7:00	90°00'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	7:07	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	7:14	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	7:21	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B+W	7:27	90°00'	✓	
		14	R		90°00'	✓	
		15	Y		90°00'	✓	

RANGE 17+50 S

F. B. 1884 Pg. 90
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by E H B Notes J.S. Notes Chkd. Checked X-Sec.
Indexed [redacted] C. Johnson Date Date No.

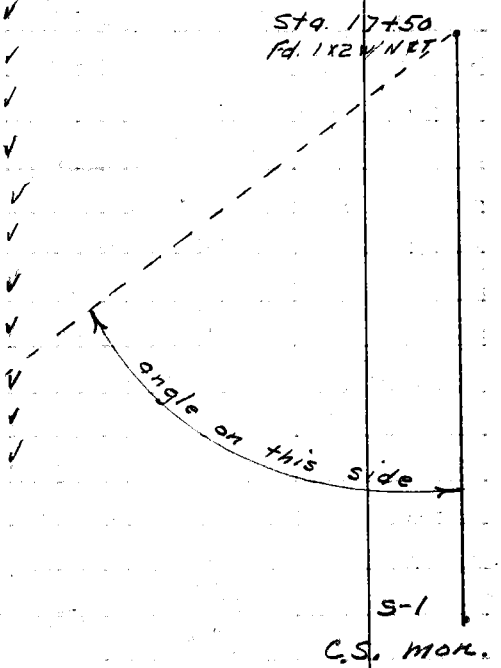
76L298 307 4-50

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 At	Inst. Sight On	B. S.	H. I. #	Color	F. S. Time	ELEV. Hor. Ang.	Remarks
17+50	S-1		1	B&W	12 10	75° 41' ✓	Cut in 22+50
			2	R		74° 25' ✓	
			3	Y		70° 23' ✓	
			4	B&W	12 15	65° 57' ✓	
			5	R		65° 13' ✓	
			6	Y		63° 44' ✓	
			7	B&W	12 21	61° 53' ✓	
			8	R		60° 58' ✓	
			9	Y		59° 10' ✓	
			10	B&W	12 24	58° 07' ✓	
			11	R		58° 48' ✓	
			12	Y		54° 42' ✓	



Cut in 22+50

Profile Notes Red. Plotted Job No. Division No. F. B. 1084 Pg. 91

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

No. Date Date Map No. Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

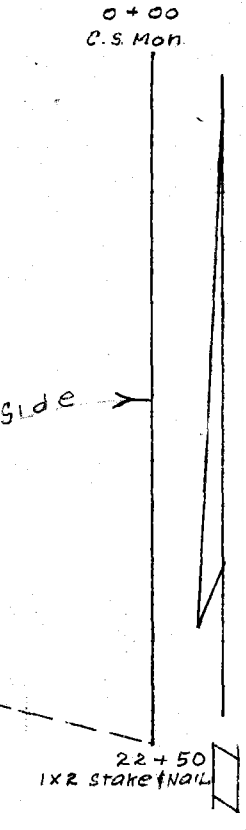
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1884 Pg. 92 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by E.H.B. | Notes J.V. | Notes Chkd. | Checked | X-Sec.
Indexed L. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
22+50	0+00	1	B&W	7:00	76°33	✓ Cut in 17+50
		2	R		74 51	✓
		3	Y		71 59	✓
		4	B&W	7 07	69 10	✓
		5	R		66 18	✓
		6	Y		64 14	✓
		7	B&W	7 14	61 47	✓
		8	R		59 00	✓
		9	Y		56 30	✓
		10	B&W	7 22	53 51	✓
		11	R		51 31	✓
		12	Y		50 37	✓
		13	B&W	7 27	51 32	✓
		14	R		52 37	✓
		15	Y		[illegible]	✓

Cut in 17+50



76L298 307 4-50

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. 17+50S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	7 00	308 299	30.2	4.1	26.1	2109	
2	R		264 281	28.5		24.4 ~~26.4~~	1862	
3	Y		288 269	27.5		23.4	1550	
4	BW	7 08	266 252	25.7	4.0	21.7	1322	
5	R		249 231	23.7		19.7	1150	
6	Y		220 209	21.3		17.3	1046	
7	BW	7 14	210 190	19.7	4.0	15.7	980	
8	R		189 172	17.8		13.8	910	
9	Y		172 160	16.4		12.4	861	
10	BW	7 21	162 142	14.9 ~~14.2~~	3.9	11.0	833	
11	R		147 129	13.5		9.6	791	
12	Y		132 113	11.9		8.0	738	
13	BW	7 27	118 103	10.8	3.8	7.0	707	
14	R		112 87	9.5		5.7	660	
15	Y		99 78	8.5		4.7	650	

Profile Notes Red. Plotted Job No. Division No. F. B. 1964 PG. 93

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

No. Date 4-21-53 Date Map No. Date

Dept 17+50S

F. B. 1884 Pg. 94 | 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 _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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.

76L298 307 4-50

76L298 307 5-49

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.	Cut-in ∡		
					Inst. at 12+50 Sight on 8+00		
8+00	0 46	31 21		30 75			N.&T.
T.P.	0 95	22 46	9 70	21 51	7° 04'	50	Brk.
T.P.	1 30	17 1	6 65	15 81	19 12	141	"
			5 9	11 2	31 36	245	"
			3 3	13 8	39 21	328	"
T.P.	1 40	6 97	11 54	5 57	43 08	376	"
			5 8	1 2	45 12	402	under water
			6 4	0 6	48 47	458	"
			8 6	-1 6	53 22	540	"
			12 4	-5 4	57 36	632	"
			16 5	-9 5	60 41	711	"

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

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

No. ____ Date 6-14-53 Date ____ Map No. ____ Index Date ____

F.B. ____ PG. ____

Inshore

76L298 307 5-49

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.	Cut-in ∡		
					Inst at 8+00		
					Sight on 4+00		
4+00	1 05	30 54		29 49			1X2
T.P.	0 00	20 44	10 10	20 44	8° 07'	57	Brk.
"	2 00	16 21	6 23	14 21	23 31	174	"
			5 0	11 2	35 31	285	"
			3 0	13 2	48 58	460	"
T.P.	1 45	5 75	11 91	[illegible] 30	46 04	~~415~~	"
			7 1	-1 3	48 52	458	under water
			6 0	[illegible] 2	50 47	490	"
			9 3	-3 5	57 42	633	"
			13 4	-7 [illegible]	61 13	728	"
			15 6	-9 [illegible]	62 29	768	"

Inshore
4+00 S.

F.B. 1884 PG. 96
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed [illegible] Date Date 4-14-53 Date

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 12+50
12+50	S-1 1	B+W	7:55	89°32'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	8:02	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	8:08	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	8:12	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	8:16	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°00'	✓	

Profile Notes Red. Plotted Job No. 2412 Division No.

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

No. Date Date Map No. [illegible] Date

F. B. 1880 PG. 97

RANGE 12+50 S

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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.	3-24-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 8+00
8+00	S-1	1	B+W	8:35	90°16'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	8:42	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	8:51	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'	✓	

RANGE 8+00 S

F. B. 1884 PG. 98 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 J S Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

76L298 307 4-50

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

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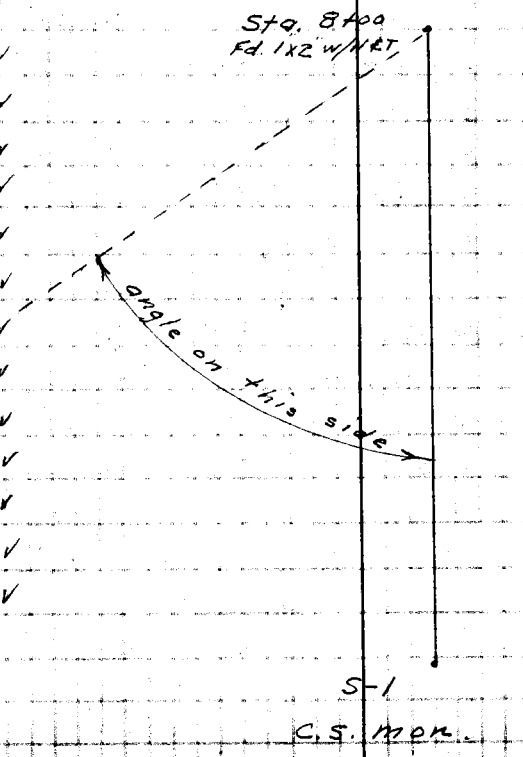
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks
8+00	S-1	1 B&W	7 55	77° 43' ✓	Cut in 12+50
		2 R		75° 35' ✓	
		3 Y		74° 35' ✓	
		4 B&W	8 01	72° 17' ✓	
		5 R		69° 03' ✓	
		6 Y		68° 24' ✓	
		7 B&W	8 09	67° 20' ✓	
		8 R		66° 06' ✓	
		9 Y		64° 52' ✓	
		10 B&W	8 12	63° 28' ✓	
		11 R		62° 22' ✓	
		12 Y		61° 33' ✓	
		13 B&W	8 16	60° 14' ✓	
		14 R		59° 06' ✓	
		15 Y		58° 43' ✓	



Cut in 12+50 S

Profile Notes Red. Plotted Job No. Division No.
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Date
F. B. 1000 Pg. 99

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

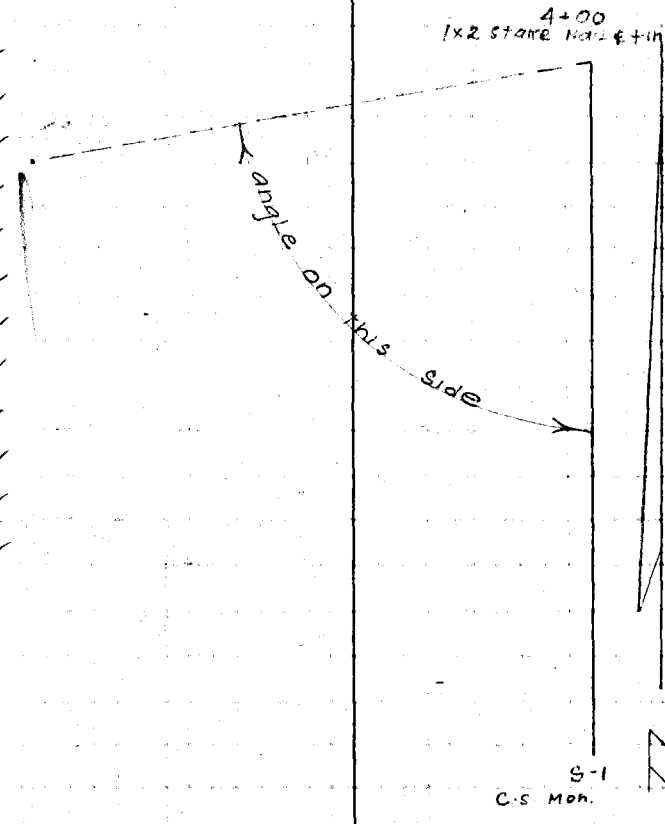
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1884 Pg. 100 | Job No. 8412 Division No. V | Notes Red. | Plotted | Profile No.
Survey of Beach Erosion Studies | Date | Date | X-Sec. No.
Survey by J. A. Johnson | Notes V | Notes Chkd. | Checked
Indexed | Date | Date | Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
4+00	S-1	1	B&W	8:35	[illegible] 57	✓	Cut in 8+00
		2	R		[illegible] 35	✓	
		3	Y		[illegible] 28	✓	
		4	B&W	8 42	[illegible] 49	✓	
		5	R		[illegible] 05	✓	
		6	Y		[illegible] 29	✓	
		7	B&W	8 51	[illegible] 31	✓	
		8	R		67 19	✓	
		9	Y		66 29	✓	
		10	B&W	8 55	66 [illegible]	✓	
		11	R		64 55	✓	
		12	Y		6[illegible] 50	✓	
		13	B&W	8 59	[illegible] 10	✓	
		14	R		[illegible] 42	✓	

Cut in 8+00



76L298 307 4-50

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

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Do not extend notes this side of this line. 12+50S BOA

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	7 55	31 8 / 29 1	30.0	3.3	26.7	2165	
2	R		29 4 / 28 0	28.5		25.2	1755	
3	Y		28 1 / 26 9	27.3		24.0	1628	
4	BW	8 02	27 1 / 25 7	26.2	3.3	22.9	1405	
5	R		25 0 / 23 6	24.1		20.8	1149	
6	Y		24 5 / 22 6	23.4		20.1	1136	
7	BW	8 10	22 1 / 20 8	21.2	3.2	18.0	1075	
8	R		20 3 / 19 2	19.7		16.5	1011	
9	Y		18 8 / 17 0	17.6		14.4	959	
10	BW	8 13	17 7 / 15 3	16.1	3.1	13.0	900	
11	R		15 8 / 14 0	14.6		11.5	858	
12	Y		14 7 / 12 5	13.2		10.1	828	
13	BW	8 16	12 5 / 11 0	11.5	3.1	8.4	790	
14	R		11 2 / 9 4	10.0		6.9	751	
15	Y		10 0 / 8 3	8.9		5.8	739	
16	BW							

BOOT 11+50S

Profile Notes Red. Plotted Job No. Division No. F. B. 1004 Pg.

X-Sec. Notes Chkd. KRK Checked Survey by Notes Date

No. Date 4-21-53 Date Map No. No. Cl. Tolerance Date

76L298 307 4-50

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

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Do not extend notes this side of this line. 8+00S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 35	[illegible]		28			
2	R		290 276	28.1		25.3 ✓	1992 ✓	
3	Y	1	276 264	26.8		24.0 ✓	1678 ✓	
4	BW	8 42	262 249	25.3	27	~~22.5~~ 22.6	1385 ✓	
5	R		244 232	23.6		20.9 ✓	1238 ✓	
6	Y		241 225	23.0		20.3 ✓	1130 ✓	
7	BW	8 51	199 197	20.2	26	17.6 ✓	1018 ✓	
8	R		18[illegible] 192	19.2		16.6 ✓	958 ✓	
9	Y		178	18.3		15.7 ✓	920 ✓	
10	BW	8 56	179 153	16.2	25	13.7 ✓	910 ✓	
11	R		12[illegible]	14.6 ~~14.8~~		12.1 ✓	855 ✓	
12	Y		113 115	12.6		10.1 ✓	814 ✓	
13	BW	8 51	93	10.0	24	7.6 ✓	760 ✓	
14	R		8[illegible]	8.6		6.2 ✓	681 ✓	

Boat 8+00S

F. B. 1884 Pg. 102
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 4-15-53 Date No.
Survey by FHB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed C. Johnson Date Date 4-21-53 Date No.

76L298 307 5-49

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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.	Cut-in ∡		
					Inst. at 5+75 N. Sight on 0+00		
0+00	2 84	28 77		25 93			Mon.
T.P.	1 11	16 24	13 64	15 13	10° 51'	110	Brk.
			5 6	10 6	23 16	249	"
			5 9	10 3	25 53	281	"
			3 2	13 0	31 49	360	"
T.P.	3 00	9 58	9 66	6 58	34 14	394	"
"	1 76	4 74	6 60	2 98	35 45	417	"
			5 4	-0 7	37 27	443	under water
			5 8	-1 1	41 26	511	" "
			7 3	-2 6	45 22	589	" "
			11 3	-6 6	50 20	698	" "
			15 2	-10 5	53 32	785	" "

Inshore
0+00

Profile Notes Red. Plotted Job No. Division No. F.B. PG.
X-Sec. Notes Chkd. [illegible] Checked Survey by [illegible] Notes [illegible] Date 3-24-53
No. Date 4-14-53 Date Map No. [illegible] Date

F.B. 1889 PG. 104 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by English Notes English Notes Chkd. Lew Checked _____ X-Sec.

Indexed O. Johnson Date _____ Date 4-14-53 Date _____ No. _____

Inshore
5+75 N.

78L298 307 5-49

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.	Cut-in ∡ Inst. at 0+00 Sight on 5+75N.	
5+75 N.	0 35	26 81		26 46		1X2
T.P.	2 60	14 65	14 76	12 05	21° 44' 230	Brk.
			3 3	11 4	34 06 392	"
T.P.	1 71	5 01	11 35	5 30	38 06 453	"
			5 5	-0 5	41 13 506	under water
			6 8	-1 8	45 54 597	" "
			8 8	-3 8	51 00 712	" "
			12 2	-7 2	55 43 848	" "
			14 0	-9 0	57 15 899	" "

76L298 307 4-50

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. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 4+00
4+00	S-1	1 BtW	9:19	90°00'		
		2 R		90°00'		
		3 Y		90°00'	✓	
		4 BtW	9:26	90°00'	✓	
		5 R		90°00'	✓	
		6 Y		90°00'	✓	
		7 BtW	9:34	90°00'	✓	
		8 R		90°00'	✓	
		9 Y		90°00'	✓	
		10 BtW	9:36	90°00'	✓	
		11 R		90°00'	✓	
		12 Y		90°00'	✓	

RANGE 4+00

Profile Notes Red. Plotted Job No. R412 Division No. F. B. 1884 Pg. 105

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

No. Date Date Map No. Indexed Date

F. B. 1584 Pg. 106 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by E.H. B Notes U.S. Notes Chkd. Checked X-Sec.
Indexed [redacted] 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.	3-24-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
0+00	S-1	1	BtW	9:59	90° 00'	✓	RANGE 0+00
		2	R		90° 00'	✓	
		3	Y		90° 00'	✓	
		4	BtW	10:09	90° 00'	✓	
		5	R		90° 00'	✓	
		6	Y		90° 00'	✓	
		7	BtW	10:13	90° 00'	✓	
		8	R		90° 00'	✓	
		9	Y		90° 00'	✓	
		10	BtW	10:15	90° 00'	✓	
		11	R		90° 00	✓	

RANGE 0+00 S

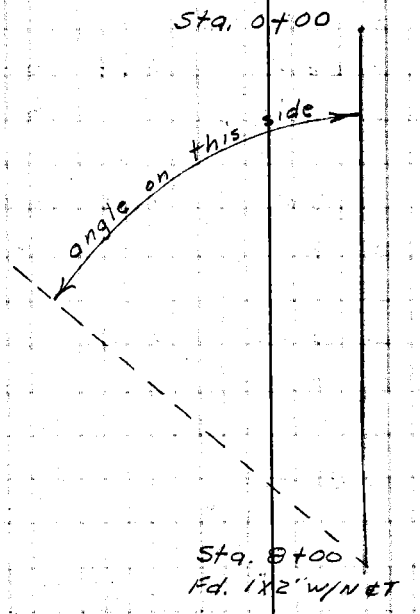
76L298 307 4-50

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 On		# Color	Time	Hor. Ang.	Remarks
8+00	0+00	1 B&W	9 20	79° 48'	✓ Cut in 4+00
		2 R		77° 00'	✓
		3 Y		75° 20'	✓✓
		4 B&W	9 26	72° 15'	✓✓
		5 R		69° 48'	✓✓
		6 Y		68° 34'	✓✓
		7 B&W	9 34	66° 33'	✓✓
		8 R		64° 54'	✓✓
		9 Y		64° 35'	✓✓
		10 B&W	9 36	62° 36'	✓✓
		11 R		61° 43'	✓✓
		12 Y		59° 55'	✓✓



Cut in 4+00 S

Profile Notes Red. Plotted Job No. 9110 Division No.

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

No. Date Date Map No. Indexed Date

F. B. 1884 Pg. 107

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

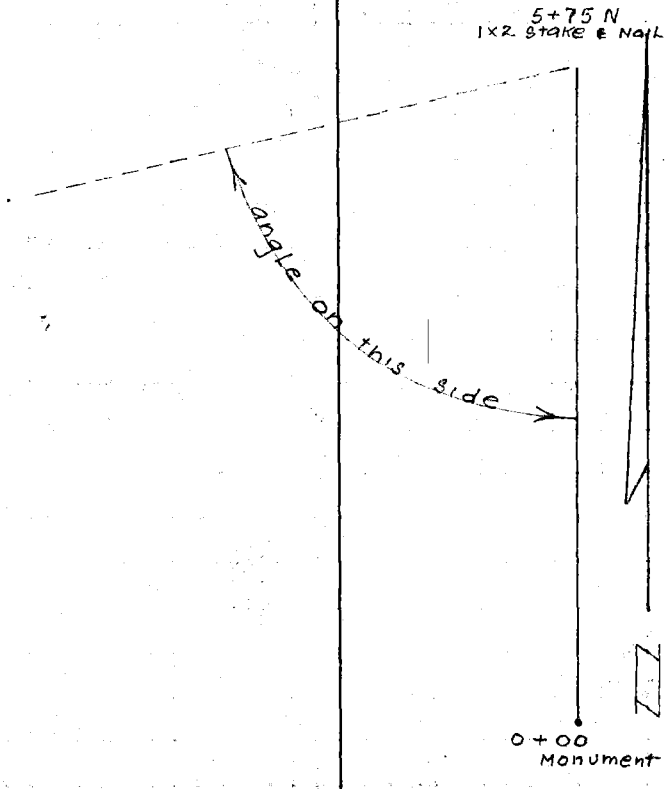
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1884 Pg. 108 Job No. 842 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 J. C. Johnson Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
5+75 N	0+00	1	B & W	9:59	74 31	✓	Cut in 0+00
		2	R		71 54	✓	
		3	Y		67 19	✓	
		4	B & W	10 09	64 37	✓	
		5	R		62 32	✓	
		6	Y		[illegible] 28	✓	
		7	B & W	10 13	[illegible] 46	✓	
		8	R		56 25	✓	
		9	Y		55 04	✓	
		10	B & W	10 15	53 53	✓	
		11	R		52 32	✓	

Cut in 0+00 S



76L298 307 4-50

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. 4+00S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Head Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	9 20	292 275	28.1	2.0	261	2223	
2	R		276 260	26.5		245	1733	RELAND
3	Y		270 249	25.6		236	1528	
4	BW	9 27	250 230	23.7	1.9	218	1250	
5	R		232 209	21.7		198	1087	
6	Y		210 188	19.5		176	1018	
7	BW	9 35	180 163	17.0	1.8	152	922	
8	R		172 150	15.7		139	854	
9	Y		151 137	14.4		126	841	
10	BW	9 37	132 [illegible]	11.7	1.8	99	772	
11	R		127 [illegible]	10.5		87	743	
12	Y		107 79	8.8		70	690	
13	BW							

Profile Notes Red. [illegible] Plotted ____ Job No. [illegible] Division No. ____ F. B. 1884 Pg. 109

X-Sec. Notes Chkd. [illegible] Checked ____ Survey By [illegible] Notes [illegible] Date ____

No. ____ Date 4-21-53 Date ____ Map No. ____ [illegible] Johnson Date ____

Sort Atoms

76L298 307 4-50

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. 0+00S RANGE ~BOAT~

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	10:00	27.7 26.0	26.6	14	252	2093	HAMMEN-LEAD
2	R		26.8 29.7	25.4	14	240	1979	TANGELAND-NOTES
3	Y		24.7 23.0	23.6	13	223	1390	HOMACHER-OARS
4	BW	10:03	24.1 21.0	22.0	12	208	1219	
5	R		21.8 19.8	20.3		191	1110	
6	Y		19.0 17.0	17.7		165	982	
7	BW	10:13	18.4 15.4	16.1	12	149	918	
8	R		15.5 13.0	13.6		124	870	
9	Y		13.0 12.0	12.7		115	828	
10	BW	10:16	13.8 11.8	11.3	12	101	794	
11	R		9.5	9.8		86	759	
12	Y							
13	BW							

Boat 0+00S

3-24-53

F. B. 1884 Pg. 110 Job No. 8412 Division No. Notes Red. PRW Plotted Profile
Survey of Beach Erosion Studies Date 4-15-53 Date No. X-Sec.
Survey by F.H.B. Notes Chkd. KRK Checked
Indexed [illegible] Date 4-21-53 Date No.

76L298 307 4-50

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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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On		# Color	Time	Hor. Ang.		Remarks RANGE 575 N
5+75-N	S 1	1	B+W	10:26	89°35'	✓	
		2	R		89°18'	✓	
		3	Y		89°32'	✓	
		4	B+W	10:30	90°00'	✓	
		5	R		89°27'	✓	
		6	Y		88°58'	✓	

RANGE 575N

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1882 Pg. 111

Notes Chkd. Checked Survey By Notes Date

No. Date Date Map No. Indexed Date

F. G. Johnson

76L298 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.

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	

F. B. 1884 Pg. 112

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

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

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____

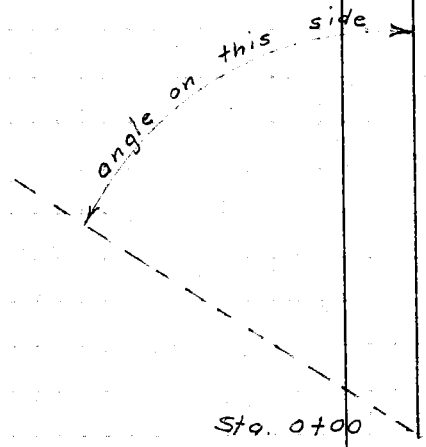
76L298 307 4-50

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
0+00	N-1	1	B&W	10 26	71° 36' ✓	Cut in 5+75 N
		2	R		69° 34' ✓	Note: Sta. N-1
		3	Y		63° 46' ✓	Wind & Sea picked up.
		4	B&W	10 31	61° 24' ✓	White caps showing.
		5	R		60° 06' ✓	
		6	Y		57° 51' ✓	



Cut in 5+75 N

Profile Notes Red. Plotted Job No. 8412 Division No. 4

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

No. Date Date Map No. Indexed Date

F. B. 1884 Pg. 113

F. B. 1884 PG. 114

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

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.		
Inst.Sight At	On	#	Color	Time	Hor.Ang.	Remarks

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. [illegible]

STATION	B. S.	H. I.	F. S.	ELEV.			BOAT
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	[illegible]	[illegible]	24.8	10	238 ✓	1700 ✓	Choppy
2	R		[illegible]	23.3		223 ✓	1499 ✓	[illegible]
3	Y		2[illegible]	21.2		202 ✓	1151 ✓	[illegible]
4	BW	10:31	19.5 18.4	18.8	10	178 ✓	1060 ✓	[illegible]
5	R		18.9 16.4	17.2		162 ✓	988 ✓	
6			13.6 12.0	12.5		115 ✓	891 ✓	
7	[illegible]							Kenny - Lead
8								Artie - Notes
9								Eddy - Oars
10	[illegible]							
11	R							
12	Y							
13	[illegible]							

Boat 5/15-N

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

Notes Chkd [illegible] Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]

Date 4-21-52 Date ____ Map No. ____ Indexed [illegible] Date ____

F.B. 1864 PG. 115

F.B. 1884 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 _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 10.51

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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.

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

76L298 307 5-49

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.	Cut-in ∡		
					Inst. at 0+00 Sight on 6+50N.		(Note-6+25 is on top of [illegible])
6+50 N.	1 46	27 24		25 78			1X2
			9 8	17 4	6° 16'	71	Brk.
T.P.	2 65	15 84	14 05	13 19	18 45	220	"
			4 8	11 0	40 11	575	"
T.P.	2 95	5 22	13 57	2 27	46 30	685	"
			5 0	0 2	47 26	707	under water
			8 1	-2 9	50 17	782	"
			11 0	-5 8	52 34	849	"
			14 3	-9 1	54 14	902	"
			16 5	-11 3	55 13	935	"

Profile Notes Red. Plotted Job No. Division No. F.B. PG.

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

No. Date 4-14-53 Date Map No. [illegible] Date

Inshore 6+50 N.

F.B. 1884 PG. 118

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

Survey of_____ Date_____ Date_____

Survey by_____ Notes_____ Notes Chkd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

Do not extend notes this side of this line.

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

78L298 307 5-49

Date _____ Notes by _____ Chief Party _____ F. B. _____ PG. _____

Plotted by _____ W. O. No. _____ D. S. O. No. _____

Map No. _____ Surveyed by _____

Plotting C'k'd by _____ Date _____

JM 8/12

NEW TIES

Cont. Next Pg.

N

Fd. L&T Top
1 Pet well
F.B. 930-62

.02

65.95

1 - 170-01-30
4 - 320-06-10
6 - 300-09-30
170-01-33 1/3

170° 01' 33 1/3" Mea
170° 01' 12" Rec.

89.68

Fd. L&T
F.B. 930-62
289+34.595

S 15
Fd. Std. C.S. Mon
1 ft well dia 8"
Per F.B. 930-15
F.B. 930-62

80.39

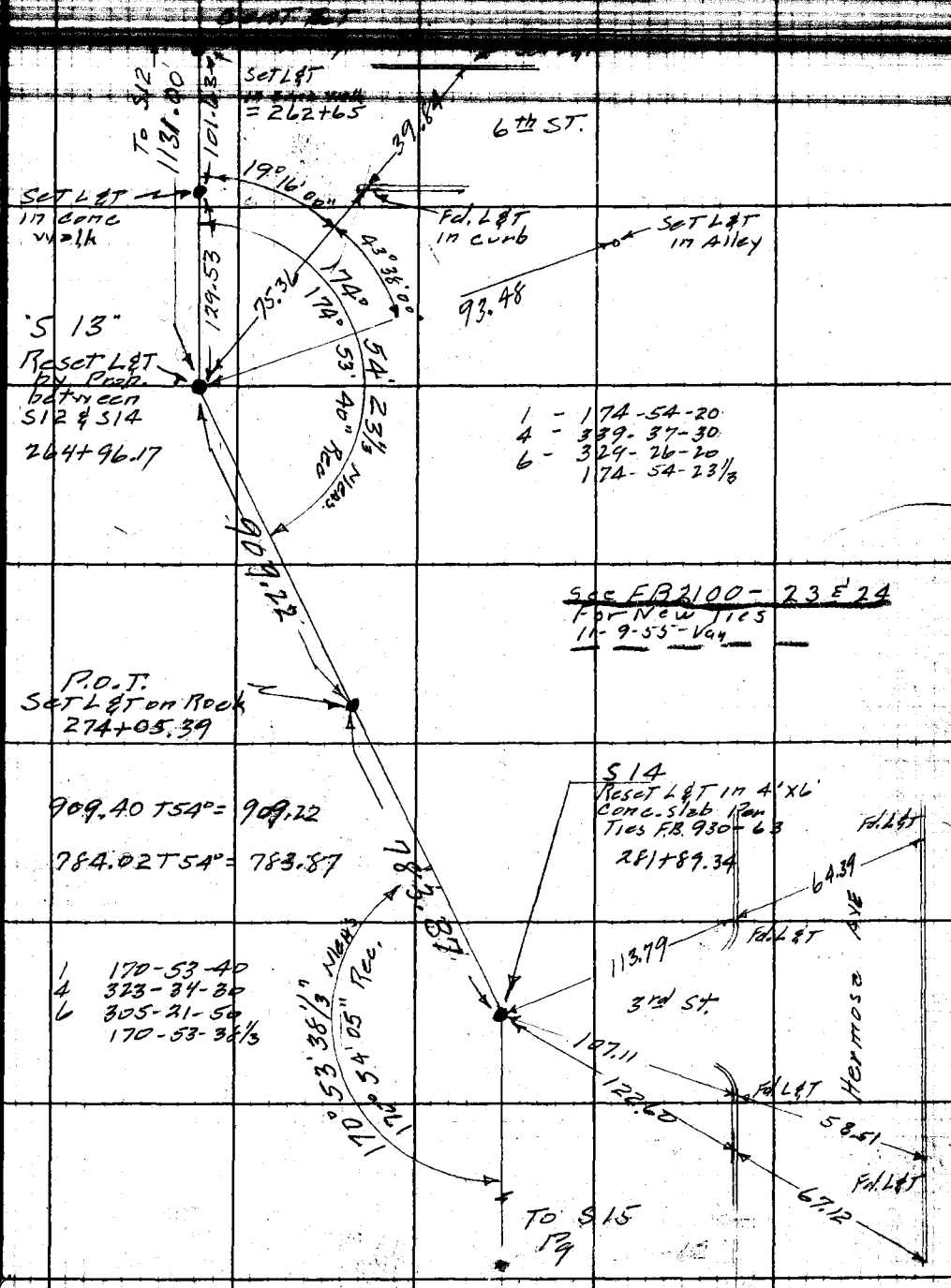
Fd. L&T
F.B. 930-62

See F.B. 2100-26
For New Tics
11-2-65 Vag

S 10° 42' 50" E
Per C.S.B. 1823-1

S. 16
Fd. B. Spik W&T
Per F.B. 930-62

Map No.	W. O. 8412 Tape No. 89 St'd. 84 °F
Office Work	Surveyed by Snyder
Checked	Notes Snyder Date 4-24-53
Date	Indexed



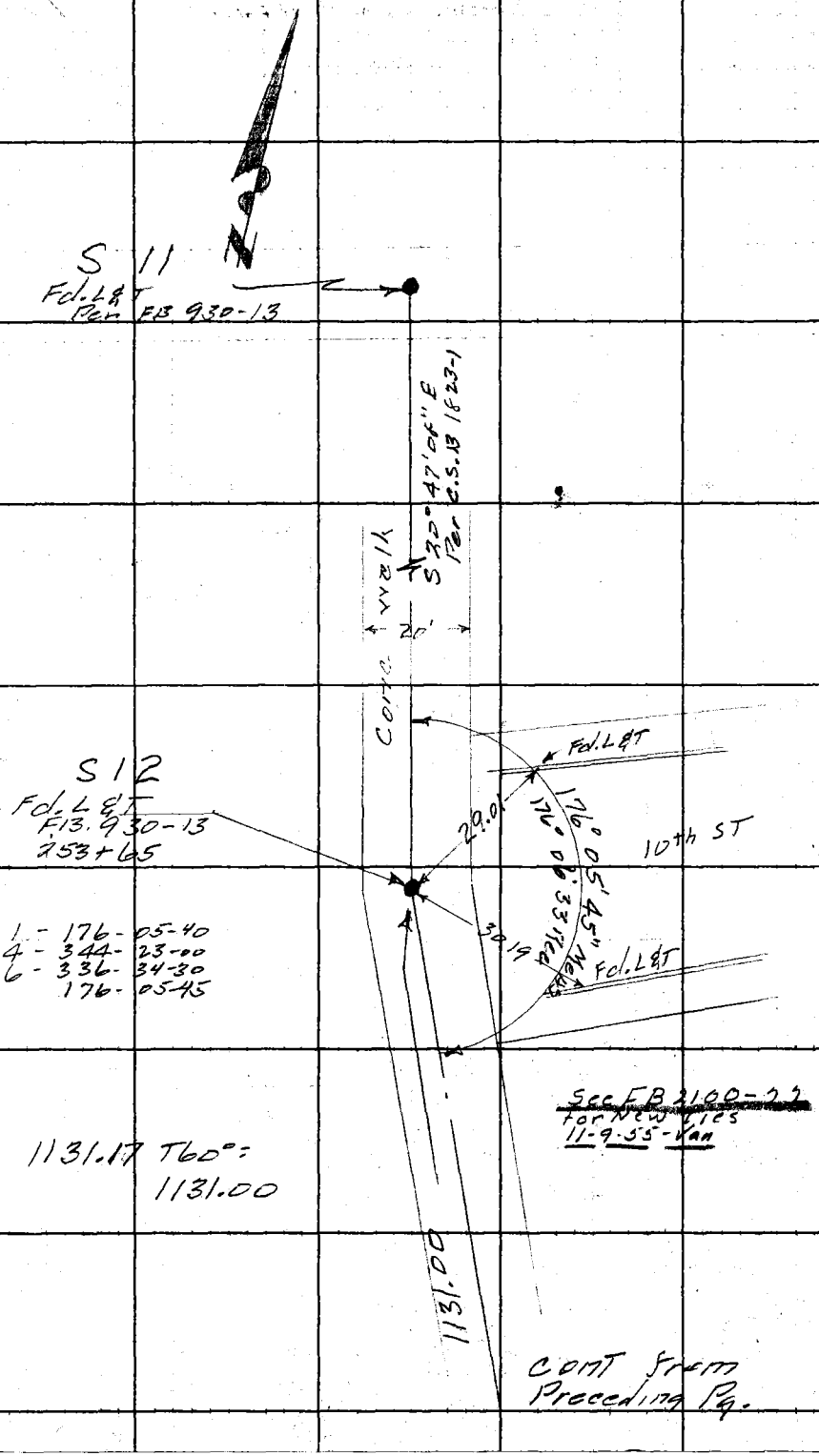
Note: Any Additions or Changes of This Sheet Must be Made or Checked in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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

76FS085 247 2-51

F.B. 1884 PG. 122



~~See FB 2100-22~~
For New Lines
11-9-55 Van

RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

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

Profile Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F. B. 1884 Pg. 123

[redacted]

Notes Chkd. _____ Checked _____ Survey by [redacted] Date [redacted]

No. _____ Date _____ Date _____ Map No. _____ Indexed _____ Date 3-26-53

IN 8412

BEACH EROSION STUDIES

PROFILE LEVELS – CONTROL LINE

REDONDO – MALAGA COVE AREAS
TO MANHATTAN BEACH
From Sta 428+19S, North To Sta. 253+65S (S 12)
From Sta 195+00 S, North To Sta. 1+00N
(Hyperion grain)

DATUM – M.L.L.W

February 1953

Snyder P.R.
Hand H.
Sandoval M.G.
Voge J.

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

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

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

761.298 307 4-50

76L298 307 4-50

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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.

STATION	B. S.	H. I.	F. S.	ELEV.		
R.M. #2				11 340	fd. St'd C.S. Mon.	-dn 2.5 RM #2 for
	475	16 09			cont. line STa S-28	F.B. 930-22
O.K. 423+19			375	12 34	1X2 (Elev 11.340	F.B. 1184-20) F.B. 589-68
O.K. 428+19 ⊙	694	15 67	7.36	8 73	1X2	
T.P.			432	11 35		
	513	16 48				
418+19.02			556	10 92	1X2	
	575	16 67				
413+19.02			556	11 11	1X2	
	607	17 18				
T.B.M.			155	15 63	B. Spk 35' N.E of	STA 413+19
	031	15 94				
T.P.			028	15 66	1X2	
	179	17 45				
408+19.02			603	11 42	1X2	
	559	17 01				
403+19.02			633	10 68	1X2	
	642	17 10				
398+19.02			655	10 55	1X2 dn 2'	
	683	17 38				
393+19.02			557	11 81	1X2	

F. B. 1884 Pg. 124
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Snyder Notes PBS Notes Chkd Lewis Checked X-Sec.
Indexed C. Johnson Date 2-53 Date 3-30-53 Date No.

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

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.	
393+19.02				11 81	1X2
	676	18 57			
388+00			3.98	14 59	1X2
	630	20 89			
RM#1 B.M.			343	17 46	RM.#1 for S 27 C.S. Mon dn 2'
	376	21 22			FB. 1184-19 Elev. 17.646
RM#2 B.M.			426	16 96	RM #2 for S 27 C.S. Mon dn 12" Per
					FB. 1290-61 Elev 17.099 (FB. 1184-19 Elev. 17.126
RM#2 B.M				17 10	RM #2 for S 27 Elev Per FB 1184-19
	478	21 88			
R.M.			093	20 95	1X2 63.5' East of Sta 383+00
	083	21 78			
383+00			11 26	10 52	1X2 in water
T.P.			4 78	17 00	1X2
	386	20 86			
R.M.			372	17 14	1X2 69' East of Sta 378+00
	365	20 79			
378+00					under water
T.P.			204	18 75	1X2
	053	19 28			
RM			052	18 76	1X2. 80' East of Sta 373+00

Profile Notes Red. ____ Plotted ____ Job No. 6412 Division No. ____

F.B. 1884 PG. 125

Notes Chkd. ____ Checked ____ Survey By ____ Notes ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ 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.	
R.M				1876 ✓	
	384	2260 ✓			
373+00					under water
T.B.M.			481	1779 ✓	T.B.M. Set chis □ on west curb of conc
	343	2122 ✓			Ramp at N. end of Railing & 16' S. of N. end of curb
					& at Sta 372+25 ±
T.P.			338	1784 ✓	1x2
	328	2112 ✓			
368+00			469	1643 ✓	1x2
	471	2114 ✓			
T.P.			433	1681 ✓	1x2
	323	2004 ✓			
363+00			565	1439 ✓	1x2
	419	1858 ✓			
T.P.			144	[illegible]14 ✓	1x2
	245	1959 ✓			
358+00			714	1245 ✓	1x2
	600	1845 ✓			
T.B.M.			476	1375 ✓	Chis "□" in west curb of conc ramp at S.
					end of Railing near S.W. cor of
	386	1761 ✓			Life guard Sta & at 354+50 ±

F.B. 1884 PG. 126 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by Snyder Notes PBS Notes Chkd. Checked No.
Indexed C. Johnson Date 2-53 Date Date

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.		
353+00		1761	362	1399	1x2	
	353	1752				
348+00	482	1742	492	1260	1x2	
343+00	826	2221	347	1395	1x2	
340+50	656	2696	181	2040	N&T in Pav. 23.2 W of Ret. wall	
338+00	436	2675	457	2239	N&T in Road.	
335+50	430	2559	546	2129	N&T in Road.	
T.B.M	080	2467	172	2387	T.B.M. Fd. Spk Top of Ret wall 6' E. of S	
333+00			455	2012	N&T	
330+50			450	2017	N&T	
T.P. ⊙	524	2665	326	2141	N&T	
328+44			531	2134	N&T South Side of Groin	
328+30			524	2141	N&T ℄ Groin	
328+14			515	2150	N&T North Side of Groin	
327+00			457	2208	N&T	
325+50			517	2148	N&T	
324+00 ⊙	486	2584	567	2098	N&T	
B.M.			560	2024	B.M. Brass Cap Mon Geod. Cont.	
	489	2513			Torrence F9A at (Sta 323+96)	
					Elev. 20.287 F.B. 1184-17	
323+00			477	2036	N&T	

Profile

Notes Red. _____ Plotted _____ Job No. C412 Division No. _____

Notes Chkd. _____ Checked _____ Survey by _____ Notes _____

No. _____ Date _____ Date _____ Map No. _____ Indexed Johnson Date _____

F.B. 1884 PG. 127

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.		
		25 13				
322+00			486	20 27	N&T	
320+50	⊙ 433	23 99	547	[illegible]	N&T	
319+00			487	[illegible]	N&T	
317+00	⊙ 408	22 39	568	[illegible]	N&T	
316+00			452	[illegible]	N&T	
315+37			475	17 64	N&T	South Side of Grain
315+25			482	[illegible]	N&T	℄ Grain
315+10			487	[illegible]	N&T	North Side of Grain
314+65			495	[illegible]	N&T	
312+65	⊙ 591	23 25	505	17 34	N&T	
310+65			503	18 22	N&T	
308+65	⊙ 645	25 55	415	19 10	N&T	
306+65			454	21 01	N&T	
T.B.M.	241	24 33	363	21 92	N&T	S19" = 305+72.665
TP	435	16 61	1207	13 26		
302+15			1069	5 92	1x2	S. side of Grain
302+02			421	12 40	Chis	+ on Top of Grain
301+86			1066	5 95	1x2	N. side of Grain
T.P.	851	24 66	046	16 15	on Step	
T.P.			506	19 60		

F.B. 1884 PG. 128 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Snyder Notes Snyder Notes Chkd. Checked
Indexed R. C. Johnson Date 2-25-53 Date Date No.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
	552	25 12		19 60	
300+65			496	20 16	N&T on Pier
298+65	395	24 11	496	20 16	N&T on Pier
296+65			397	20 14	Fd. N&W on Pier
294+65			453	19 58	N&T on Pier
T.P.	399	23 57	453	19 58	
S16	603	24 68	492	18 65	Spk in Pier Elev. 18.676 Per FB [illegible]
292+65			510	19 58	Fd. Nail
290+65			364	21 04	N&T
T.B.M	445	25 59	354	21 14	S. 15 C.S. Mon. in Well
288+65			926	16 33	L&T 3' N. of Ret Wall
286+65			1610	9 49	1X2
T.P.	608	21 42	1025	15 34	
284+65			825	13 17	L&T in Rock
T.P.	754	18 60	1036	11 06	
280+65			1021	8 39	L&T in Rock
T.P.	479	22 12	127	17 33	
276+65			570	16 42	L&T in Rock
T.P.	467	21 57	522	16 90	
272+65			137	20 20	L&T in Rock
268+65			581	15 76	L&T "

Profile
Notes Red. ____ Plotted ____ Job No. 5412 Division No. ____
Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1884 PG. 129

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.		21 57	659	14 98		
	680	21 78				
264+65 ⊙	494	21 52	520	16 58	1x2	
262+65 ⊙	503	21 69	486	16 66	Fd. + in walk Reset L&T Elev. 16.63 FB 1184-14	
258+65 ⊙	520	22 14	475	16 94	Fd. + in walk Elev. 16.93 F.B. 1184-14	
254+65			490	17 24	Fd. + in walk Elev. 17.25 FB 1184-14	
253+65 S 12			480	17 34	Fd. L&T. in walk Elev. 17.360 FB 1184-14	
					F.B. 930-13	

F.B. 1884 PG. 130

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

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by Snyder Notes PRS Notes Chkd. Checked No.

Indexed [illegible] Date 2-25-53 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.	
T.P. 195+00	5045	21892		16847	Fd. L&T. conc walk Elev. 16.847 F.B. 128[illegible]
T.P.	4988	21895	4985	16907	
190+00	4932	21877	4950	16945	Fd. L&T in conc. walk Elev. 16.95 F.B. 1284-11
T.P.	4805	21764	4918	16959	
185+00	5085	21759	5090	16674	Fd. L&T conc. walk Elev. 16.68 FB 128[illegible]
T.P.	5025	22171	4613	17146	
S 9 180+00	4871	22252	4790	17381	Fd. L&T conc walk Elev. 17.35 FB 1284[illegible]
T.P.	5200	22684	4768	17484	
175+00	5078	23034	4728	17956	Fd. L&T in conc. walk Elev. 18.00 F.B. 128[illegible]
T.P.	4930	22774	5190	17844	
170+00	4790	22404	5160	17614	Fd. + in conc walk Elev. 17.66 FB 12[illegible]
T.P.	5042	22514	4932	17472	
"S 8" 165+00	4973	~~22.506~~	4981	17533	L&T. in conc. walk (New Point)
T.P.	5052	~~22533~~	5025	~~17481~~	
160+00	4995	~~22.563~~	4965	~~17568~~	L&T in conc. walk (New Point)
T.P.	5070	~~22.603~~	5030	~~17533~~	
T.P.	5101	~~22.614~~	5090	~~17.513~~	
T B.M.			9080	~~13.534~~	Fd. Geod. Control Mon. "Torance D3" [illegible] hole 4' below conc. walk @ Sta 153+00± & 11' E[illegible]

Profile Notes Red ____ Plotted ____ Job No. 8417 Division No. ____

Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]

Date ____ Date ____ Map No. ____ Date ____

F.B. 1664 PG. 131

76L298 307 10-51

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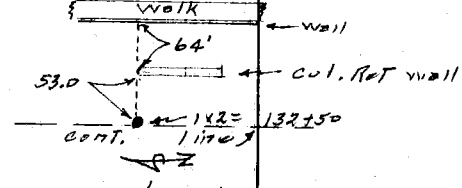
153+13.4
152+50
L3.4

STATION	B. S.	H. I.	F. S.	ELEV.	
B.M.	6280	~~19.814~~		~~13.534~~	from Preceding Pg.
152+50			548	~~14.33~~	1X2 4.5' E. of Life guard Sta #15
T.P.	4800	~~22.136~~	2478	~~17.336~~	
147+50	5580	~~21.112~~	6604	~~15.532~~	1X2 - 3' S. of S. edge of westerly Prolongation of walk & 118.3' West of wall
T.P.	4719	~~21.006~~	4825	~~16.287~~	
142+50			437	16.64	1X2 - 3' S. of S edge of westerly Prolongation of walk & 125' west of wall (5th. ST.)
T.P.	3667	~~19.633~~	5040	15.966	
137+50	4689	~~19.982~~	4340	~~15.293~~	1X2 - 3' S. of S. edge of westerly Prolongation of walk & 128' West of wall
T.P.	5408	~~21.525~~	3865	~~16.117~~	
132+50			540	16.13	1X2 -
T.P.			5340	~~16.185~~	
	5860	~~22.045~~			
S-7	11.520	26261	7304	14741	Fd. C.S. Mon dn 2' Elev. 14.726 F.B. 1284-10
"S-6"	5075	29570	1766	24495	Fd. 1" I.P. & Cap dn 8" Elev. 24.469 F.B. 1284-10
127+50			459	24.98	1X2
T.P.	5700	30908	4362	25208	
124+51 ± B.M.			5740	25168	Fd. L.A. Co. Surv. Cont. Sta. Torance C2 in a well at the Int. of Center ST & P.E. R/Y R/W. Elev. 25.137 Per F.B. 1284-10



F.B. 1884 PG. 132 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Snyder Notes PRS Notes Chkd. Checked
Indexed C. Johnson Date 3-3-53 Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Torrance C2 B.M.	6277	31445 ✓		25168 ✓	from Preceding Pg.	
122+50	3284	30199 ✓	4530	26915 ✓	1X2	
T.P.	5670	31204 ✓	4665	25534 ✓	1X2	
117+50	4090	32184 ✓	3110	28094 ✓	1X2	19.2 West of Ret. wall
T.P.	3775	30138 ✓	5821	26363 ✓		
112+50	4985	31159 ✓	3964	26174 ✓	1X2	19.2 West of Ret. wall
T.P.	2570	31140 ✓	2589	28570 ✓	1X2	
107+50	5735	32030 ✓	4845	26295 ✓	1X2	41' West of Ret wall
T.P.	4080	33400 ✓	2710	29320 ✓		
102+50	4390	30931 ✓	6859	26541 ✓	1X2	
100+45.12 S "5"			5665	25.266 ✓	Fd. 2" I.P. filled with conc & spk [illegible]	
	7550	32816 ✓			Elev. 25.288 Per F.B. 1284-8	
97+50	5070	32620 ✓	5266	27550 ✓	1X2	12.5 West of Ret. wall
T.P.	3048	32128 ✓	3540	29080 ✓		
92+50	5028	32907 ✓	4249	27879 ✓	1X2	
T.P.	5002	33444 ✓	4465	28442 ✓		
87+50			567	27 77 ✓	1X2	
86+10.84 S-4			8270	25.174 ✓	Fd. 3/4" I.P. dn 18"	
	7595	32769 ✓				
82+50	5220	35109 ✓	2880	29.889 ✓	1X2	
T.P.	5440	33771 ✓	6778	28331 ✓		

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

Notes Chkd ____ Checked ____ Survey by [illegible] Notes [illegible] Date ____

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

F.B. 1884 PG. 133

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	
		33.771			
77+50	3732	33.653	3850	29921	1x2
S-3A-75+00			5470	28183	Fd. Cut Spk in 2" I.P. at ℄ PT Elev. 28.187
	5955	34138			Per F.B. 1284-8
72+50	5062	34508	4692	29446	1x2
T.P.	5020	34353	5175	29333	
67+50	4770	34516	4607	29746	1x2 – 3' South of N. line of house #3412
T.P.	3958	34122	4352	30164	
62+50	4645	33432	5335	28787	1x2 –
T.P.	4533	33825	4140	29292	
57+50	4930	33325	5430	28395	1x2 –
"S-2" = 56+23.23 from N. = 56+26.51 going S.			4690	28635	Fd. L.A. Co Surv. B.C. Mon dn 6"
	5085	33720			Elev. 28.649 Per F.B. 1284-7
52+50	4635	33602	4753	28967	N&T in Road
T.P.	4755	33607	4750	28852	
47+50	4438	33450	4595	29012	N&T in Road.
T.P.	5023	33920	4553	28897	
42+50	5300	33750	5470	28450	1x2 – 39.6 West of curb & on Prod. of
T.P.	4378	35368	2760	30990	South curb of 45th ST.
37+50	3847	35373	3842	31526	1x2, N&T & Flag (white)
T.P.			5035	30338	

F.B. 1884 PG. 134 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Snyder Notes P.R.S. Notes Chkd. Checked
Indexed C. Johnson Date 3-4-53 Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	4554	34 892		30 338	from Preceding Pg.
32+50	3820	35 365	3347	31 545	1x2, N&T & Flag (white)
T.P.	4288	35 035	4618	30 747	
27+50	5040	34 062	6013	29 022	1x2, N&T & Flag (white)
S-1	5400	34 024	5438	28 624	2½" B.C. Mon Set by City Engr. Elev. 28.627 Per F.B. 1284-6
22+50	4200	34 007	4217	29 807	1x2, N&T & Flag (white)
T.P.	4165	33 427	4745	29 262	
17+50	3320	34 086	2661	30 766	1x2, N&T & Flag (white)
T.P.	4187	33 908	4365	29 721	
12+50	0451	29 899	4460	29 448	N&T in Standard oil Co's yard
U.S. 2785			10330	19 569	U.S. 2785 Tidal 2 about 2 mi N.W. [illegible] P.E.R.R R/W from the Manhattan Pier [illegible]
	11 600	31 169			Manhattan Beach. L.A. Co. at the Standard [illegible] Co. Pier & Refinery at the N.E. Cor. [illegible] Plant. & Top cone Rot Wall. a Standard [illegible] Stamped 2-19-33 U.S.G.S. Elev. 19.572 [illegible] Per. F.B. 1284-5
T.P.	5825	36 119	0875	30 294	
8+00	5545	36 299	5365	30 754	1x2, N&T & Flag (white)
4+00			6810	29 489	1x2, 8' West of Road

Profile Notes Red. ____ Plotted ____ Job No. 6412 Division No. ____

Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date ____

Date ____ Date ____ Map No. ____ Date ____

F.B. 1884 Pg. 135

30Z 10-51

note

1884

STATION						
4+00 S.	1[illegible]	3[illegible]			[illegible] 1X2	[illegible]m Preceding Pg.
0+00 N.&S			[illegible]50[illegible]	259[illegible]	Fd. 2[illegible]	[illegible] dr. 18" Santa Monica Bay Station Set by Engr. City of L.A. Stamped 0+00 F.B. 930-7
	5[illegible]5	[illegible]				
T.P.	4155	31 312	4075	27 157	1X2	
5+75 N			485	26 46	1X2	S. Side Hyperion groin
6+00 N.			618	25 13	1X2	℄ " "
6+25 N.			553	25 78	1X2	N. Side " "
T.P.	4063	31 220	4155	27 157	1X2	
T.P.	5270	30 765	5725	25 495	1X2	
B.M.# 768			3190	27 575	B.M. 768 Fd. Std. U.S.G.S. disk set in N. face near N.E. Cor. of Conc. Bldg. Standard oil Co. Salt water Pumping Plant for oil Refinery about 1400'± N. from Standard oil Co Pier. Elev. 27.574 (M.L.L.W.) Per F.B. 1284-5	

F.B. 1884 Pg. 136 Job No. 8412 Division No. Notes Red. Plotted
Survey of Beach Erosion Studies Date Date
Survey by Snyder Notes P.R.S. Notes Chkd. [illegible] Checked
Indexed E. C. Johnson Date 3-6-53 Date 3-30-53 Date