Profile Notes Red _____ Plotted _____
Date _____ Survey of _____
Checked _____
Date _____ Map No. _____

HYDROGRAPHIC SURVEY
FOR
BEACH EROSION STUDY
~ 1948 ~

Cont'd From F.B. 1502 - Pg. 250

Profiles

Are Over Range Lines
From Sta 317+00(N)
To " 520+00(N), Incl.

I.N. 8412 Dec. 6 - Dec. 22, 19[illegible]

Shore Work & Profiles By:-
L.A. City Engrng Dept.

For Range Lines
[illegible]6+00(N) To
[illegible]3+90.51, incl.
See F.B. 21423
Pgs 2-55.

For Range Lines
386+41.46(N) To
520+00(N), incl.
See F.B. 21427
Pgs. 2-46

Offshore Profiles By:-
Kleineck
Moore
Mitchell
Haliscky
Raphael
McBroom
Mankey

F.B. 5303 PG. 2

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. _____

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

F.B. 6503 Pg. 3

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

Date _____ Date _____ Survey of _____

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by _____ Notes _____ Date _____

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

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

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

FORM 307 10M 10-46

F.B. 7509 G. 4

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. _____

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
317 "N-25"	1	R	10:55	89°40	RANGE LINE ∡	= 90°
+00	2	Y		90°25'		
(N)	3	B		90°20'		
	4	Y		90°20'		
	5	B		90°05'		
	6	R	11:01	89°45'		
	7	Y		90°15'		
	8	B		90°15'		
	9	Y		90°40'		
	10	B		89°20'		
	11	R	11:06	89°20'		
	12	Y		89°50'		
	13	B		90°30'		
	14	Y		89°45'		
	15	B		90°30'		
	16	R	11:13	90°15		
	17	Y		90°10		
	18	B		90°25'		
	19	Y	11:19	90°05'		
	~~20~~	~~B~~				

ON 400' OFFSET TO LEFT

Range 317+00 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 603 Pg. 3

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Date 12-6-48

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
319	N-25	1	R	11:33	90°35'	Range line ∡ = 90°	
+00		2	~~#~~B		89°35'		
(N)		3	B		89°40'		
		4	Y		90°05'		
		5	B		89°55'		
	"	6	R	11:46	90°50'		
	"	7	Y		89°00'		
	"	8	B		89°55'		
	"	9	Y		88°50'		
	"	10	B		89°40'		
	"	11	R	11 54	89°05'		
	"	12	Y		89°30'		
	"	13	B		90°00'		
	"	14	Y		90°45'		
	"	15	B		90°15'		
	"	16	R	11 59	90°55'		
	"	~~17~~	~~Y~~				
		18	B				
		19	Y				
		20	B				

Range 319+00 (N) ON 400' OFFSET TO LEFT

F.B. 1563 Pg. 6 Job No. 8412 Division No. Notes Red. Plotted Profile No.
Survey of Beach erosion Date Date X-Sec.
Survey by Kleineck Notes S.H. 12/6/48 Notes Chkd. Checked
Indexed A. C. Jabrnor Date Date No.

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
303 N-24	1	R	10 56	174 00	Range line	317+00 (N)
+00	2	Y		173 15		
	3	B		172 00		
	4	Y		170 40		
	5	B		171 05	OK	
"	6	R	11 02	170 00		
	7	Y		169 05		
"	8	B		167 50		
	9	Y		166 50		
"	10	B		164 30		
	11	R	11 07	162 00		
"	12	Y		160 10		
	13	B		155 45		
	14	Y		149 30		
"	15	B		142 30		
	16	R	11 14	136 40		
	17	Y		131 00		
	18	B		127 00		
	19	Y		125 35		
	20	B				

OFFSET 460' To The Left

Cut-in 317+00 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 7

No. ____ Date ____ Date ____ Survey of Beach erosion

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

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
311+00	N-24	1	R	11 33	111 55	Range Line 319+00 (N)
		2	Y (B)		115 55	
		3	B		118 20	
		4	Y		122 25	
		5	B		128 35	
		6	R	11 47	136 05	
		7	Y		141 55	
	"	8	B		150 05	
	"	9	Y		156 10	
	"	10	B		157 40	
	"	11	R	11 54	161 40	
	"	12	Y		161 45	
	"	13	B		165 10	
	"	14	Y		167 20	
	"	15	B		168 25	
		16	R	12 00	171 10	
		17	Y			
		18	B			
		19	Y			
		20	B			

Cut-in 319+00 (N)

Offset 460' to the left

F.B. 1503 Pg. 8

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

Survey of Beach Erosion Date Date X-Sec.

Survey by Klieneck Notes J.W.S.M. 12-6-48 Notes Chkd. Checked No.

Indexed A. C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red M.X. Plotted ____ Date 12-30-48 Date ____ Notes Chkd. ____ Checked ____ Date ____ Date ____ Job No. 8412 Division No. 1K Survey of Hiscock Notes RTM Date 12/6/48 Survey by Hiscock Notes ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1053 Pg. 9

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. H.T. Tide	Adj. Depth	Remarks
1	R	~~10:56~~	8.1 6.9	7.3✓	40	3.3	Range Line 317+00(N)
2	Y	9:56	9.5 8.4	8.8✓	40	4.8	
3	B		11.8 9.7	10.4✓	40	6.4	
4	Y		15.0 12.9	13.6✓	40	9.6	
5	B		14.9 11.7	12.8✓	40	8.8	Back up to get this.
6	R	~~11:01~~	15.6 13.5	14.2✓	41	10.1	
7	Y	10:01	16.0 14.7	15.1✓	41	11.0	
8	B		18.3 17.1	17.5✓	41	13.1	
9	Y		18.5 18.1	18.2✓	41	14.1	
10	B		20.8 18.9	19.5✓	41	15.4	
11	R	~~11:06~~	22.2 20.3	20.9✓	41	16.8	
12	Y	10:06	22.8 20.3	21.1✓	41	17.0	
13	B		23.2 21.6	22.1✓	41	18.0	
14	Y		24.3 22.8	23.3✓	41	19.2	
15	B		25.2 24.0	24.4✓	41	20.3	
16	R	~~11:13~~	26.8 25.8	26.1✓	42	21.9	317+00(N) Boat
17	Y	10:13	29.6 26.0	27.2✓	42	23.0	
18	B		30.3 29.0	29.4✓	42	25.2	
19	Y	~~11:20~~	31.1 29.9	30.3✓	42	26.1	Last shot.
20	B	10:20					

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. 1603 PG. 10

Profile No. ____ X-Sec. No. ____

Plotted 7-1-7 Date 12-30-48 Checked ____ Date ____

Notes Red. ✓ Notes Chkd. ____ Date ____

Division No. 1 Job No. 8412 Notes RTK 11/6/48

Survey of Beach Erosion

Survey by Kleineck

Indexed C. Fohbauer Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~H 32~~	32.7	31 0	43	26.7	Range Line 319+00 (N)
2	Y	10:32	29.2 / 29.3	28 5✓	43	24.2	
3	B		28.1	27 0✓	43	22.7	
4	Y		27.9 / 26.5	25 8✓	43	21.5	
5	B		24.8 / 25.4	24 2✓	43	19.9	
6	R	~~H 46~~	23.6 / 23.8 / 21.8	22 1✓	44	17.7	
7	Y	10:46	22.7 / 20.9	21 5✓	44	17.1	
8	B		22.0 / 19.9	20 6✓	44	16.2	
9	Y		21.0 / 18.6	19 4✓	44	15.0	
10	B		19.4 / 18.0	18 5✓	44	14.1	
11	R	~~H 55~~	18.0 / 16.9	16 7✓	44	12.3	
12	Y	10:55	17.8 / 14.9	15 9✓	44	11.5	
13	B		13.5 / 13.2	13 3✓	44	8.9	
14	Y		12.0 / 11.0	11 3✓	44	6.9	
15	B		11.3 / 9.5	10 1✓	44	5.7	
16	R	~~H 59~~	7.8 / 7.2	7 4✓	44	3.0	Last shot
17	Y	10:59					Boat 319+00 (N)
18	B						
19	Y						
20	B						

FORM 307 5M 1-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	
321	N-26	1	R	1207	89°55'	Range line 4 = 90°	
+00 (N)		2	Y		90°40'		
		3	B		90°35'		
		4	Y		91°45'		
		5	B		89°35'		
		6	R	1211	90°00'		
		7	Y		89°50'		
		8	B		90°40'		
		9	Y		90°45'		
		10	B		91°00'		
		11	R	1220	90°25'		
		12	Y		90°20'		
		13	B		91°05'		
		14	Y		90°10'		
		15	B		90°55'		
		16	R	1225	90°25'		
		17	Y		90°30'		
		18	B		91°45'		
		19	Y		90°20'		
		20	B		90°15'		
		21	R	1238	90°10'		

ON 400' OFFSET TO THE LEFT

Range 321+00 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8442 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion
Notes Chkd ____ Date ____ Checked ____ Date ____ Survey by [illegible] Map No. ____ Indexed ____ Date ____

F.B. 465 Pg. 11

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	
323	N-26	1	R	12:48	90°05'	Range line ∠ = 90°	
+00(N)		2	Y		90°05'		
		3	B		90°15'		
	"	4	Y		90°30'		
		5	B		89°55'		
	"	6	R	12:58	90°05'		
		7	Y		90°05'		
	"	8	B		90°35'		
		9	Y		90°15'		
		10	B		90°45'		
	"	11	R	1:05	90°55'		
		12	Y		89°50'		
		13	B		89°40'		
	"	14	Y		90°10'		
		15	B	1 08	90°10'		
		~~16~~	~~R~~				
	"	~~17~~	~~Y~~				
		~~18~~	~~B~~				
		~~19~~	~~Y~~				
		~~20~~	~~B~~				

Range 323+00 (N) ON 400' OFFSET TO The left

F.B. 1503 PG. 12

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

Survey of Beach Erosion Date ____ Date ____ No. ____

Survey by Kleineck Notes S.N. 12/6/48 Notes Chkd ____ Checked ____ X-Sec.

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

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
311 +00 (N)	N-24	1	R	12 08	174 50	Range Line 321+00 (N)
		2	Y		172 20	
		3	B		171 25	
		4	Y		171 05	
		5	B		170 00	
		6	R	12 12	168 55	
		7	Y		169 40	ok
		8	B		169 10	ok
	"	9	Y		167 30	
	"	10	B		166 10	
	"	11	R	12 20	164 25	
	"	12	Y		162 40	
	"	13	B		160 40	
	"	14	Y		159 15	
	"	15	B		157 40	
		16	R	12 26	151 30	
		17	Y		141 20	
		18	B		136 00	
		19	Y		127 20	
		20	B		123 05	
		21	R	12 39	119 45	

Offset 460' to the left

Cut-in 321+00 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. No. 3 Pg. 13

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

Notes Chkd. ____ Checked ____ Survey by Kleinsch Notes J.W.S.M. Date 12-6-48

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

F.B. 1603 PG. 14

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

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Kleneck Notes F.W.S.M. 12-6-48 Notes Chkd _____ Checked _____ X-Sec.

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

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
311 N-24	1	R	12 49	125 20	Range Line 323+00 (N)
400	2	Y		131 00	
	3	B		137 15	
	4	Y		142 15	
	5	B		145 25	
	6	R	1 00	150 45	
	7	Y		155 50	
	8	B		160 20	
	9	Y		165 20	
	10	B		166 20	
	11	R	1 06	169 20	
	12	Y		169 45	
	13	B		172 00	
	14	Y		172 55	
	15	B		174 55	
	16	Y			
	17	Y			
	18	Y			
	19	B			
	20	Y			

Cut-in 323+00 (N)

Offset 460' to the left

" " " " "

FORM 307 5M 1-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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FORM 307 10M 10-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	[illegible]	Ht. Tide	Adj. Depth	Remarks.
1	R	~~12:07~~	16 5 / 5 0	55 ✓	45	1.0	
2	Y	11:07	9 3 / 7 6	82 ✓	45	3.7	RANGE LINE 321+00 (H)
3	B		10 0 / 8 4	89 ✓	45	4.4	
4	Y		11 3 / 9 2	99 ✓	45	5.4	
5	B		11 0 / 10 0	103 ✓	45	5.8	
6	R	~~12:10~~	13 4 / 11 7	123 ✓	45	7.8	
7	Y	11:10	13 7 / 11 4	122 ✓	45	7.7	
8	B		14 3 / 12 0	128 ✓	45	8.3	
9	Y		16 0 / 13 5	143 ✓	45	9.8	
10	B		16 4 / 14 9	154 ✓	45	10.9	
11	R	~~12:20~~	18 1 / 16 4	170 ✓	45	12.5	
12	Y	11:20	20 1 / 17 7	185 ✓	45	14.0	
13	B		20 6 / 18 8	194 ✓	45	14.9	
14	Y		22 0 / 19 9	206 ✓	45	16.1	
15	B		22 2 / 20 8	213 ✓	45	16.8	
16	R	~~12:25~~	23 4 / 21 0	218 ✓	45	17.3	
17	Y	11:25	24 7 / 22 5	232 ✓	45	18.7	
18	B		27 1 / 24 0	250 ✓	45	20.5	
19	Y		29 5 / 24 8	264 ✓	45	21.9	
20	B	~~11:39~~	30 0 / 28 0	287 ✓	45	24.2	
21	R	~~12:39~~	30 7 / 29 6	306 ✓	45	25.1	

Boat. 321+00 (H)

Profile Notes Red M.K. Plotted ____ Job No. 8412 Division No. V
No. ____ Date 12-30-48 Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinrock Notes T. McB Date 12/6/48
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1503 Pg. 15

FORM 307 10M 10-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	Ht. Tide	Adj. Depth	Remarks
1	R	~~12:49~~	316 290	299 ~~295~~ ✓	45	25.4	
2	Y	11:49	295 275	282 ✓	45	23.7	RANGE LINE 323+00 (N)
3	B		270 255	260 ✓	45	21.5	
4	Y		265 240	248 ✓	45	20.3	
5	B		253 235	241 ✓	45	19.6	
6	R	~~12:59~~	248 224	232 ✓	45	18.7	
7	Y	11:59	238 210	219 ✓	45	17.4	
8	B		223 198	206 ~~223~~ ✓	45	16.1	
9	Y		213 180	191 ✓	45	14.6	
10	B		185 170	175 ✓	45	13.0	
11	R	~~1:06~~	165 150	155 ✓	45	11.0	
12	Y	12:06	157 130	139 ✓	45	9.4	
13	B		130 110	117 ✓	45	7.2	
14	Y		112 98	103 ✓	45	5.8	
15	B		90 70	77 ✓	45	3.2	
16	R						
17	Y						
18	B						
19	Y						
20	B						
21	R						

Boat 323+00 (N)

F.B. 1503 PG. 16

Job No. 8412 Division No. ____ Notes Red. M.B. Plotted ____ Date 12-30-48 Date ____ No. ____ Profile

Survey of Beach Erosion Notes McB 12/6/48 Notes Chkd. ____ Checked ____ Date ____ No. ____ X-Sec.

Survey by Kleneck Date ____ Date ____ Date ____

Indexed C. J. Jarrett

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
325 N-26	1	R	8:05	89°20'	Range Line ∡ = 90°	
+00	2	Y		86°20'		
(N)	3	B		88°30'		
	4	Y		89°20'		
	5	B		87°40'		
"	6	R	8:08	89°50'		
	7	Y		90°00'		
	8	B		89°45'		
"	9	Y		90°00'		
	10	B		90°00'		
	11	R	8:12	90°00'		
"	12	Y		90°10'		
	13	B		89°40'		
	14	Y		90°10'		
	15	B		89°50'		
400'	16	R	8:18	89°50'		
	17	Y		90°40'		
	18	B		90°30'		
"	19	Y		90°55'		
	20	B		90°20'		
	21	R	8:27	90°25'		

ON 400' OFFSET TO LEFT.

Range 325+00 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1563 Pg. 17

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

Notes Chkd. ____ Checked ____ Survey by [illegible] Notes H.H.R. Date 12-7-48

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

F.B. 1503 PG. 18 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile No.
Survey of BEACH EROSION | Date | Date | X-Sec. No.
Survey by KLEINECK | Notes HHR 12-7-48 | Notes Chkd. | Checked
Indexed A. C. Johnson | Date | Date | Date

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 327+30 (N)
ON 400' OFFSET TO LEFT.
400' " " " "

STATION		B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
327+00 (N)	N-26	1	R	8:46	90°35'	RANGE LINE ∡ = 90°
		2	Y		90°15'	
		3	B		90°30'	
		4	Y		90°35'	
		5	B		90°20'	
		6	R	9:02	90°25'	
		7	Y		90°50'	
		8	B		91°10'	
		9	Y		90°55'	
		10	B		90°00'	
		11	R	9:15	90°25'	
		12	Y		90°40'	
		13	B		90°15'	
		14	Y		90°35'	
		15	B		90°00'	
		16	R	9:20	90°25'	

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
317	N-26	1	R	8 06	165 35	Range Line 325+00 (N)	
+15		2	Y		164 50		
		3	B		164 15		
		4	Y		163 55		
		5	B		160 50		
		6	R	8 08	159 10		
		7	Y		158 05		
		8	B		157 05		
		9	Y		155 30		
		10	B		154 00		
		11	R	8 11	152 25		
		12	Y		150 15		
		13	B		141 45		
		14	Y		137 10		
		15	B		132 15		
		16	R	8 18	127 25		
		17	Y		122 55		
		18	B		119 20		
		19	Y		116 10		
		20	B		112 30		
		21	R	8 27	111 15		

Offset 400' to the left

Cut-in 325+00 (N)

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4503 Pg. 19

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

Notes Chkd. ____ Checked ____ Survey by Kleinert Nunn J.W.S. Mon 12-7-48

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
317	N-25	1	R	8 46	114 10	Range Line 327+00 (N)
+15		2	Y		116 10	
		3	B		120 40	
		4	Y		125 10	
		5	B		130 50	
		6	R	9 03	134 55	
		7	Y		142 40	
		8	B		150 00	
	"	9	Y		153 55	
	"	10	B		156 45	
	"	11	R	9 16	158 50	
	"	12	Y		159 40	
	"	13	B		162 20	
	"	14	Y		163 40	
	"	15	B		164 30	
	"	16	R	9 20	166 05	

Cut-in 327+00 (N)
Offset 400' to the left

F.B. 1603 Pg. 20
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Date Date X-Sec.
Survey by Klieneck Notes J.W.S.M. 12-7-48 Notes Chkd. Checked No.
Indexed A. O. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Notes Red M.X. Plotted ____ Job No. 8412 Division No. ✓ F.B. 1503 Pg. 21
X-Sec. No. ____ Date 12-30-48 Date ____ Survey of [illegible] Notes RJM Date 12/7/48
Notes Chkd. ____ Checked ____ Survey by Kleineck Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.	28.2	
#	Color	Time	Meas. Depth	Bo[illegible]	Ht. Tide	Adj. Depth	Remarks.
1	R	~~8 05~~	9.2 6.9	7 7✓	33	4.4	Range Line 325+00 (N)
2	Y	7:05	10.0 7.4	8 3✓	33	5.0	
3	B		10.7 8.1	9 0✓	33	5.7	
4	Y		12.0 9.5	10 3✓	33	7.0	
5	B		14.5 10.8	12 0✓	33	8.7	
6	R	~~8 07~~	14.5 11.9	12 8✓	33	9.5	
7	Y	7:07	17.0 13.8	14 9✓	33	11.6	
8	B		16.0 14.5	15 0✓	33	11.7	
9	Y		17.7 15.3	16 1✓	33	12.8	
10	B		18.7 16.0	16 9✓	33	13.6	
11	R	~~8 11~~	18.5 17.5	17 8✓	33	14.5	
12	Y	7:11	20.5 18.4	19 1✓	33	15.8	
13	B		21.9 19.0	20 0✓	33	16.7	
14	Y		22.5 20.5	21 2✓	33	17.9	
15	B		22.9 21.0	21 6✓	33	18.3	
16	R	~~8 17~~	24.6 22.0	22 9✓	33	19.6	
17	Y	7:17	24.5 23.5	23 8✓	33	20.5	
18	B		25.9 24.3	24 8✓	33	21.5	
19	Y		27.1 26.1	26 4✓	33	23.1	
20	B	7:26	27.5 27.9	28 4✓	33	25.1	
21	R	~~8 26~~	28.9 31.1	29 6✓	33	26.3	Last shot

Boat 325+00 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks.
1	R	~~8:46~~	31.2 29.9	30 3v	33	27.0	Range Line 327+00 (N)
2	Y	7:46	30.4 28.5	29 1v	33	25.8	
3	B		28.5 26.4	27 1v	33	23.8	
4	Y		26.0 24.5	25 0v	33	21.7	
5	B		25.0 22.5	23 3v	33	20.0	
6	R	~~9:02~~	23.3 21.2	21 9v	33	18.6	
7	Y	8:02	23.0 19.8	20 9v	33	17.6	
8	B		20.8 18.5	19 3v	33	16.0	
9	Y		22.0 17.9	19 3v	33	16.0	
10	B		19.6 17.3	18 1v	33	14.8	
11	R	~~9:15~~	17.2 15.8	16 3v	33	13.0	
12	Y	8:15	17.3 14.6	15 5v	33	12.2	
13	B		15.3 13.5	14 1v	33	10.8	
14	Y		15.1 12.0	13 0v	33	9.7	
15	B		14.0 11.5	12 3v	33	9.0	
16	R	~~9:20~~	13.0 10.0	11 0v	33	7.7	
17	Y	8:20					
18	B						
19	Y						
20	B						

Boat 327+00 (N)

F.B. 1563 PG. 22

Job No. 8412 Division No. ✓ Notes Red. M. J. Plotted ____ Profile ____

Survey of Beach Erosion Date 12-30-48 Date ____ No. ____

Survey by Kleinech Notes RJM 12/7/48 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Johnson Date ____ Date ____ No. ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 329 +00 (N) On	#	Color	Time	Hor. Ang.	Remarks	
	1	R	9:33	90° 30'	RANGE LINE ∡	=90°
	2	Y		90° 45'		
	3	B		89° 35'		
	4	Y		89° 35'		
	5	B		89° 40'		
	6	R	9:37	89° 30'		
	7	Y		89° 10'		
	8	B		90° 00'		
	9	Y		90° 00'		
	10	B		90° 15'		
	11	R	9:43	89° 50'		
	12	Y		90° 10'		
	13	B		89° 50'		
	14	Y		90° 10'		
	15	B		90° 05'		
	16	R	9:53	90° 10'		

ON 400' OFFSET TO LEFT—
ON NO. TANGENT PRODUCED SO.

ON 400' OFFSET TO LEFT—
ON NO. TANGENT PRODUCED SO. 200' TO F.S.

Range.
329+00(N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 23
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] 12-7-48
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1503 PG. 24

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

Survey of BEACH EROSION Date _____ Date _____ No. _____

Survey by KLEINECK Notes HHR 12-7-48 Notes Chkd. _____ Checked _____ X-Sec.

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 331+00 (N)	On N-27					
	#	Color	Time	Hor. Ang.	Remarks	
	1	R	10:08	90° 00'	RANGE LINE 4 = 90°	
	2	Y		90° 10'		
	3	B		90° 05'		
	4	Y		89° 55'		
	5	B		89° 55'		
	6	R	10:12	90° 30'		
	7	Y		89° 30'		
	8	B		90° 25'		
	9	Y		90° 10'		
	10	B		89° 40'		
	11	R	10:16	90° 15'		
	12	Y		90° 05'		
	13	B		89° 35'		
	14	Y		90° 15'		
	15	B		90° 05'		
	16	R	10:23	90° 00'		
	17	Y		89° 55'		
	18	B		90° 00'		
	19	Y		89° 55'		

Range
331+00 (N)
ON 400' OFFSET TO LEFT.

" 400' " " " .

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
317	N-25	1	R	9 34	168 35	Range Line 329+00 (N)	
+15		2	Y		167 10		
		3	B		165 40		
		4	Y		164 10		
		5	B		163 05		
		6	R	9 37	160 30		
	"	7	Y		157 55		
		8	B		154 15		
	"	9	Y		148 15		
		10	B		143 25		
	"	11	R	9 43	138 25		
		12	Y		131 05		
	"	13	B		126 00		
		14	Y		123 10		
	"	15	B		121 40		
		16	R	9 53	121 00		

Offset 400' to the left

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 6603 Pg. 25

No. ____ Date ____ Date ____ Survey of Bicycle Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Mlieneck Notes J.W.S.M. Date 12-7-48

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

Cut-in 329+00 (N)

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
317	N-25	1	R	10 08	170 40	Range Line 331+00 (N)
+15		2	Y		170 05	
		3	B		168 55	
		4	Y		166 55	
		5	B		166 10	
		6	R	10 12	165 00	
		7	Y		164 00	
		8	B		162 30	
		9	Y		161 20	
		10	B		160 00	
		11	R	10 16	154 50	
		12	Y		150 10	
		13	B		145 15	
		14	Y		139 20	
		15	B		136 10	
		16	R	10 24	133 25	
		17	Y		129 25	
		18	B		127 30	
		19	Y		126 35	

Cut-in 331+00 (N) Offset 400' to the left

F.B. 1503 PG. 26

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

Survey of Beach Erosion Date ____ Date ____ No. ____

Survey by Klieneck Notes J.W.S.M. 12-7-48 Notes Chkd. ____ Checked ____ X-Sec.

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date 12-30-48 Notes Red W.T. Plotted ____ Date ____ Job No. 8412 Division No. 1 F.B. 165 PG. 27
X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of ____ Survey by Kleinecke Notes RTM Date 8/17/48 Map No. ____ Checked Jackson Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			28.1				
1	R	~~7 32~~	10.3 9.8	10 0	33	6.7	Range Line 328+00(N)
2	Y	8:32	13.0	11 7	33	8.4	
3	B		14.8 12.9	13 5	33	10.2	
4	Y		15.4 13.9	14 4	33	11.1	
5	B		15.0 14.3	14 5	33	11.2	
6	R	~~9 37~~	18.9 16.0	17 0	33	13.7	
7	Y	8:37	19.4 17.8	18 3	33	15.0	
8	B		20.5 19.0	19 5	33	16.2	
9	Y		22.5 20.5	21 2	33	17.9	
10	B		23.0 21.2	21 8	33	18.5	
11	R	~~9 42~~	23.8 22.8	23 1	33	19.8	
12	Y	8:42	25.3 22.9	23 7	33	20.4	
13	B		27.8 25.3	26 3	33	23.0	
14	Y		29.0 26.5	27 3	33	24.0	
15	B		29.0 27.9	28 3	33	25.0	
16	R	~~9 53~~	30.4 28.0	28 8	33	25.5	
17	Y	8:53					
18	B						
19	Y						
20	B						

328+00(N)
Boot

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R ?	~~10-08~~ 14.5 9.5	11 2 ?	33	7.9	Range Line 331+00 (N)
2	Y	9:08 12.2 10.2	10 9 ✓	33	7.6	
3	B	12.9 11.2	11 9 ✓	33	8.6	
4	Y	13.8 12.6	13 0 ✓	33	9.7	
5	B	15.4 13.5	14 1 ✓	33	10.8	
6	R	~~10-12~~ 15.7 14.0	14 6 ✓	33	11.3	
7	Y	9:12 15.9 14.8	15 2 ✓	33	11.9	
8	B	17.0 16.0	17 0 ✓	33	13.7	
9	Y	19.1 17.7	18 2 ✓	33	14.9	
10	B	20.0 18.0	18 7 ✓	33	15.4	
11	R	~~10-16~~ 21.4 19.7	20 2 ✓	33	16.9	
12	Y	9:16 23.4 20.8	21 7 ✓	33	18.4	
13	B	24.7 21.5	22 6 ✓	33	19.3	
14	Y	25.5 22.6	23 6 ✓	33	20.3	
15	B	27.2 24.1	25 1 ✓	33	21.8	
16	R	~~10-23~~ 28.0 25.0	26 0 ✓	33	22.7	
17	Y	9:23 29.0 26.5	27 3 ✓	33	24.0	
18	B	29.8 27.5	28 3 ✓	33	25.0	
19	Y	~~10-28~~ 30.7 25.1	29 0 ✓	33	25.7	
20	B	9:28				

Boat 331+00 (N)

F.B. 1503 PG. 29

Job No. 8412 Division No. V Notes Red. M. J. Plotted Date 12-30-48 Date No. Profile

Survey of Beach Erosion Notes RJM 12/7/48 Notes Chkd. Checked Date X-Sec.

Survey by Kleineck Date

Indexed A. C. Johnson Date No.

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
333	N-28	1	R	10:37	90° 00'	RANGE LINE ∡ = 90°	
+00		2	Y		90° 00'		
(N)		3	B		89° 50'		
		4	Y		89° 20'		
		5	B		89° 35'		
	"	6	R	10:46	89° 35'		
		7	Y		89° 50'		
		8	B		89° 30'		
	"	9	Y		90° 00'		
		10	B		89° 35'		
		11	R	10:51	90° 00'		
	"	12	Y		90° 00'		
		13	B		90° 00'		
		14	Y		90° 10'		
ON 400' OFFSET TO LEFT	400'						
	"						

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4603 Pg. 29

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-7-48

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

Range 333+60 (N)

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
335	N-28	1	R	11:12	90° 00'	← OFF WEST END OF PIER. (Ocean Park)
+00		2	Y		89° 40'	
(N)		3	B		88° 35'	
		4	Y		89° 00'	
		5	B		90° 05'	RANGE LINE ∠ = 90°
		6	R	11:15	89° 25	
	=	7	Y		88° 25'	
		8	B		89° 35'	
		9	Y		90° 00'	
	=	10	B		89° 15'	
		11	R	11:20	90° 05'	
		12	Y		90° 20'	
	=	13	B		89° 50'	
		14	Y		89° 55'	
		15	B		90° 10'	
	600'	16	R	11:28	90° 05'	
		17	Y		90° 40'	
	=					

Range 335+00 (N) ON 600' OFFSET TO LEFT.

F.B. 463 PG. 30

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

Survey of BEACH EROSION Date ____ Date ____ No. ____

Survey by KLEINECK Notes HHR 12-7-48 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Jobrust Date ____ Date ____ No. ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
317	N-25	1	R	10 38	132 25	Range Line 333+00(N)	
+15		2	Y		132 05		
		3	B		136 20		
		4	Y		141 05		
		5	B		146 10		
		6	R	10 46	150 20		
		7	Y		153 20		
		8	B		156 20		
		9	Y		162 50		
		10	B		165 25		
		11	R	10 51	167 15		
		12	Y		169 25		
		13	B			out	
		14	Y		171 30		

Offset to the left

Profile Notes Red ____ Plotted ____ Job No. F412 Division No. ____ F.B. [illegible] No. 31

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Klinneck Notes J.W.S.M. Date 12-7-46

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

Cut-in 333+00(N)

FORM 307 SM 1-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	
317	N-25	1	R	11 11	171 00	Range Line 335+00 (N)	
+15		2	Y		170 00		
		3	B		169 00		
		4	Y		168 00		
		5	B		166 30		
		6	R	11 15	165 00		
		7	Y		162 25		
		8	B		160 20		
		9	Y		156 40		
		10	B		155 00		
		11	R	11 21	151 00		
		12	Y		147 35		
		13	B		144 15		
		14	Y		141 40		
		15	B		138 20		
		16	R	11 28	134 40		
		17	Y		133 50		

Cut-in 335+00 (N)
Offset 400' to the left

F.S. 1503 Pg. 52
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No. X-Sec.
Survey by Klieneck Notes T.W.S.M. 12-7-48 Notes Chkd. Checked
Indexed A. C. Johnson Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	Ht. Tide	Adj. Depth	Remarks
1	R	~~10:37~~	29.6 27.4	28 1✓	34	24.7	Range Line 333+00 (N)
2	Y	9:37	30.9 27.9	28 9✓	34	25.5	Boat went out to get [illegible]
3	B		29.0 26.4	27 3✓	34	23.9	Boat going in
4	Y		25.4 24.5	24 8✓	34	21.4	
5	B		25.1 22.6	23 4✓	34	20.0	
6	R	~~10:46~~	22.0 20.3	20 9✓	34	17.5	
7	Y	9:46	22.0 19.8	20 5✓	34	17.1	
8	B		21.4 18.0	19 1✓	34	15.7	
9	Y		17.6 16.5	16 9✓	34	13.5	
10	B		16.4 14.2	14 9✓	34	11.5	
11	R	~~10:51~~	15.1 12.6	13 4✓	34	10.0	
12	Y	9:51	12.0 11.0	11 3✓	34	7.9	
13	B		12.3 9.7	10 6✓	34	~~7.2~~	
14	Y	~~10:53~~	10.4 8.6	9 2✓	34	5.8	Last shot
15	B	9:53					
16	R						
17	Y						
18	B						
19	Y						
20	B						

Boat. 333+00 (N)

Profile No. ____ Notes Red. M.X. Plotted ____ Job No. 8412 Division No. ✓ F.B. 1503 Pg. 33
Date 12-30-48 Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Kleineck Notes RJM Date 12/7/48
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.	28.4	
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~11 11~~	11.5 8.4	9 4	34	6.0	Range Line 335+00 (N)
2	Y	10:11	9.5 12.7	10 3	34	6.9	
3	B		10.5 13.3	11 2	34	7.8	
4	Y		11.8 15.8	12 3	34	8.9	
5	B		12.4 14.0	12 7	34	9.5	
6	R	~~11 15~~	13.2 15.2	13 5	34	10.1	
7	Y	10:15	14.0 17.2	14 4	34	11.0	
8	B		15.0 19.8	15 7	34	12.3	
9	Y		16.7 20.0	17 7	34	14.3	
10	B		18.0 22.0	18 7	34	15.3	
11	R	~~11 21~~	19.8 23.4	20 5	35	17.0	
12	Y	10:21	22.0 25.0	22 5	35	19.0	
13	B		24.0 26.2	24 3	35	20.8	
14	Y		25.0 27.8	25 4	35	21.9	
15	B		26.4 29.5	26 9	35	23.4	
16	R	~~11 28~~	28.0 30.0	28 5	35	25.0	
17	Y	10:28	28.2	28 8	35	25.3	
18	B						
19	Y						
20	B						

Boat 335+00 (N)

F.B. 1503 PG. 34

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

Survey of Beach Erosion Date 12-30-48 Date X-Sec.

Survey by Klibneck Notes RJM 12/7/48 Notes Chkd. Checked No.

Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. K
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Date ____ Survey of Beach Erosion - Topanga Canyon Survey by Kleinsek Notes RUTH Date 12/10/46 Indexed Jeb Barron Date ____ Map No. ____ Date ____

F.B. 1123 Pg. 35

STATION	B. S.	Elev. H.I. - Sta	F. S.	ELEV. Bottom		
Pier Sta. #1		23.0	22.1	+0.9	Average Wave height = 1.7 ft.	Continuing the profile taken at end of Ocean Park Div. from Pier sounding stations for use as a profile in the Beach Erosion study if desired. See F.B. 1218.
2		22.1	23.5	-0.6		
3		23.0	24.8	-1.8		
4		23.1	26.6	-3.5		
5		23.3	27.8	-4.5		
6		23.2	29.0	-5.6		
7		23.2	29.4	-5.7		
8		24.0	30.0	-6.0		
9		24.0	30.8	-6.8		
10		23.9	30.0	-6.1		
11		24.0	30.2	-6.2		
12		24.2	31.0	-6.8		
13		24.3	32.1	-7.8		
14		24.5	33.0	-8.5		
15		24.6	33.1	-8.5		
16		24.8	33.2	-8.4		
17		24.8	32.8	-8.0		
18		25.1	33.2	-8.1		
19		25.1	33.3	-8.2		
20		25.3	35.0	-9.7		
21		25.3	35.5	-10.2		

Cont'd on next pg.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.~~ Elev. Sta.	F. S. C	ELEV. Bottom		
Pier Sta. No. 22		25 2	36 0	-108	Cont'd from preceding pg.	
23		25 3	37 2	-119		
24		25 4	38 0	-126		
25		25 4	39 2	-138		
26		25 5	40 7	-152		
27		25 5	40 8	-153		
28		25 6	42 8	-172		
29		25 8	45 2	-194		

F.B. 1563 PG. 36

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

Survey of Pearl Erosion - Pier Soundings - Santa Monica Date ____ Date ____ No. ____ X-Sec. ____

Survey by Kleineck Notes RJM Notes Chkd. ____ Checked ____

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	
340	338	1	R	8:12	94°10'	Range Line ∡ = 90°	
+00	+00	2	Y		91°50'		
(N)	(N)	3	B		91°30'		
		4	Y		90°40'		
		5	B		88°15'		
		6	R	8:16	88°50'		
	=	7	Y		88°55'		
		8	B		88°35'	← CHANGE IN LOCATION OF CUT IN INST. (See Cut-in notes)	
	=	9	Y		89°25'		
		10	B		89°45'		
		11	R	8:37	89°45'		
	=	12	Y		89°30'		
		13	B		90°00'		
		14	Y		89°20'		
		15	B		90°00'		
	600'	16	R	8:44	89°55'		
		17	Y		90°00'		
		18	B		89°40'		
	=	19	Y		89°40'		
		20	B		89°35'		
		21	R	8:49	89°55'		

(In account of obstacles) (RUN ON 340+05 (N)) ON 600' OFFSET TO LEFT.

Range. 340+00 (N)

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4503 p. 37

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

Notes Chkd. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
342 +00 (N)	340 +00 (N)	1	R	7:54	93° 20	RANGE LINE ∡ = 90°
		2	Y		91° 50'	
		3	B		90° 10'	
		4	Y		90° 20'	
		5	B		89° 10'	
		6	R	8:00	88° 15'	
	"	7	Y		90° 30'	
		8	B		89° 10'	CHANGE IN LOCATION OF CUT IN INST.
	"	9	R	8:58	90° 00'	AT END OF LINE. (See Cut-in notes)
		10	Y		89° 45'	
		11	B		89° 50'	
	"	12	Y		90° 20'	
		13	B		89° 30'	
		14	R	9:10	90° 15'	
		15	Y		91° 00'	
	600'	16	B		90° 55'	
		17	Y		89° 55'	
		18	B		90° 00'	
	"	19	R	9:14	88° 45'	
		20	Y		89° 10'	

Going out

Coming in

Range 342+00 (N) ON 600' OFFSET TO LEFT.

F.B. 1563 Pg. 38 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date Date X-Sec.
Survey by KLEINECK Notes HHR 12-9-48 Notes Chkd. Checked No.
Indexed C. Jabbour Date Date Date

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE AND 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	
[illegible]00 (N)	340+00 (N)	1	R	8 13	[illegible] 05	Range Line 340+00 (N)	
		2	Y		19 45	GOING OUT	
	"	3	B		52 40		
		4	Y		41 05		
	"	5	B		44 35		
		6	R	8 18	58 25		
	"	7	Y		62 20		
		8	B		67 15		
358+ 78[illegible]	358+ 78[illegible]	9	Y		124 05	GOING OUT	
		10	B		127 15		
		11	R	8 39	128 55		
		12	Y		129 35		
		13	B		131 20		
		14	Y		131 35		
		15	B		132 15		
		16	R	8 46	132 50		
		17	Y		134 05		
		18	B		135 40		
		19	Y		137 30		
		20	B		141 10		
		21	R	8 51	142 10		

ON BASE LINE

Cal Fins 340+00 PP

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. F412 Division No. ____ Survey of Beach Erosion

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

FORM 207 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
340+00	342+00	1	R	7[illegible]	347 40	Range Line 342+00 (N)
	"	2	Y		336 50	GOING OUT
	"	3	B		331 35	
	"	4	Y		324 05	
	"	5	B		315 50	
	"	6	R	802	308 55	
		7	Y		303 40	
		8	B		300 00	
358+	358	9	(R) Y	900	[illegible] 45	COMING IN
78[illegible]	+78[illegible]	10	(Y) B		145 15	
		11	(B) R		142 55	
		12	(Y) Y		139 15	
		13	(B) B		136 20	
		14	(R) Y	911	134 40	
		15	(Y) B		133 20	
		16	(B) R		131 50	
		17	(Y) Y		130 00	
		18	(B) B		128 20	
		19	(R) Y	915	125 55	
		20	(Y) B		123 00	

OFFSET 600' LEFT

ON BASE LINE

Cut-in 342+00 (N) [illegible] on range line

Profile No. X-Sec. No.

Plotted Date Checked Date Notes Red Date Notes Chkd Date Division No. 5412 Job No. [illegible]

Survey of Beach Erosion

Survey by Kliencch Notes M.B. 12/9/48

Indexed A. O. Johnson Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. ____ X.Sec. No. ____ Notes Red Plotted 22-3X Date 1-4-49 Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Job No. 8441 Division No. ____ Survey of Beach Erosion Survey by Klusack Notes TMB Date 12-1-48 Map No. ____ Indexed Johnson Date ____ F.B. 1103 Pg. 41

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~8:10~~	11.0 / 8.5	8.3 ~~9.8~~ ✓	41	5.2	
2	Y	7:10	10.7 / 7.1	8.3 ✓	41	4.2	RANGE LINE 340+00 (N)
3	B		11.6 / 9.0	9.9 ✓	41	5.8	
4	Y		12.7 / 9.6	10.6 ✓	41	6.5	Cut in instrument on pier for
5	B		13.4 / 10.6	11.5 ✓	41	7.4	first 8 shots, on Beach last
6	R	~~8:15~~	14.0 / 10.8	11.9 ✓	40	7.9	13 from Beach
7	Y	7:15	13.9 / 11.0	11.9 ✓	40	7.9	
8	B		13.8 / 12.7	13.1 ✓	40	9.1	
9	Y		14.0 / 13.0	13.3 ✓	40	9.3	
10	B		15.0 / 13.3	13.9 ✓	40	9.9	
11	R	~~8:36~~	16.9 / 14.7	15.4 ✓	39	11.5	
12	Y	7:36	17.1 / 16.0	16.4 ✓	39	12.5	
13	B		21.3 / 19.0	19.1 ✓	39	15.2	
14	Y		21.8 / 19.8	19.9 ✓	39	16.0	
15	B		23.1 / 20.0	21.0 ✓	39	17.1	
16	R	~~8:43~~	23.2 / 21.2	21.9 ✓	38	18.1	
17	Y	7:43	25.2 / 23.5	23.2 ✓	38	19.4	
18	B		26.0 / 24.8	24.7 ✓	38	20.9	
19	Y		27.2 / 24.8	26.4 ✓	38	22.6	
20	B	7:48	27.9 / 25.8	26.3 ✓	38	24.5	
21	R	~~8:48~~	29.4 / 28.0	28.5 ✓	38	24.7	

(N) 340+00

FORM 307 10M 10-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	Ht. Tide	Adj. Depth	Remarks	
1	R	~~7:53~~	7.8 / 6.1	6.7 ✓	43	2.4	Range Line 342+00 (N)
2	Y	6:53	9.1 / 7.8	8.2 ✓	43	3.9	Boat going out
3	B		11.0 / 9.5	10.0 ✓	43	5.7	
4	Y		11.2 / 10.7	10.9 ✓	43	6.6	Cut in Instrument on pier for
5	B	6:59	13.0 / 11.1	11.7 ✓	42	7.5	first 8 Shot, on Beach last 12
6	R	~~7:59~~	13.4 / 12.0	12.5 ✓	42	8.3	from Beach
7	Y	7:01	15.2 / 13.1	13.8 ✓	42	9.6	
8	B	~~8:01~~	15.3 / 13.5	14.1 ✓	42	9.9	
9	~~Y~~ R	~~8:57~~	30.6 / 28.1	28.9 ✓	37	25.2	Boat coming in for remainder
10	~~B~~ Y	7:57	30.2 / 27.2	28.2 ✓	37	24.5	
11	~~R~~ B		28.0 / 26.0	26.7 ✓	37	23.0	
12	~~Y~~ Y		26.4 / 24.7	25.3 ✓	37	21.6	
13	~~B~~ B	8:08	24.8 / 23.5	23.9 ✓	37	20.2	
14	~~Y~~ R	~~9:08~~	23.5 / 22.5	22.8 ✓	36	19.2	
15	~~B~~ Y		22.1 / 20.6	21.1 ✓	36	17.5	
16	~~R~~ B		21.1 / 19.4	20.0 ✓	36	16.4	
17	~~Y~~ Y		20.0 / 18.0	18.7 ✓	36	15.1	
18	B	8:12	19.2 / 17.0	17.7 ✓	36	14.1	Boat 342+00 (N)
19	R	~~9:12~~	17.1 / 15.2	15.8 ✓	36	12.2	
20	Y		15.1 / 13.5	14.0 ✓	36	10.4	

F.B. 1603 PG. 42 Job No. 8412 Division No. ✓ Notes Red M.J. Plotted Date 1-4-49 Profile No. X-Sec.
Survey of Beach Erosion Notes Chkd. Checked Date No.
Survey by Kleineck Notes E.T.M. Jr. 12-9-48 Date
Indexed A. C. Johnson Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
340	338	1 R	9:23	172°05'	RANGE LINE:	344+85 (N)
+00	+00	2 Y		170°55'	CUT IN ANGLES.	
(N)	(N)	3 B		167°45'		
		4 Y		165°45'	Note: Above range line could	
		5 B		161°25'	not be occupied by an inst.	
	=	6 R	9:26	158°05'	Soundings were taken along a	
		7 Y		155°40'	prolongation of the north line	
	=	8 B		150°55'	of the Ocean Park Pier +	
		9 Y		146°35'	cut in by both instruments.	
		10 B		140°15'		
		11 R	9:29	134°15'		
		12 Y		127°10'		
	=	13 B		120°50'		
		14 Y		116°50'		
		15 B		113°20'		
	600'	16 R	9:36	111°05'		
		17 Y		108°55'		
		18 B		108°05'		
	=					

ON 600' OFFSET TO LEFT.

Range 344+85 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1463 Pg. 43
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X.Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-9-48
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. 1503 PG. 44 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date | Date | No.

Survey by KLEINECK | Notes H H R 12-9-48 | Notes Chkd. | Checked | X-Sec.

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

Inst. Range 346 + 21.81 (N)

300' OUT ON RANGE LINE.

300' out

ON PARALLEL LINES

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At 346 + 21.81 (N)				
On 344 + 00 (N)				
#	Color	Time	Hor. Ang.	
1	R	9:52	83° 45'	
2	Y		83° 40'	
3	B		84° 00'	
4	Y		83° 55'	
5	B		83° 55'	
6	R	10:02	84° 25'	
7	Y		84° 30'	
8	B		84° 05'	
9	Y		84° 05'	
10	B		84° 00'	
11	R	10:08	84° 50'	
12	Y		84° 20'	
13	B		84° 20'	
14	Y		85° 10'	
15	B		85° 10'	

Remarks

RANGE LINE (FROM SOUTH: 83° 57' 13") From North 96° 02' 47"

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
358+	358+	1	R	9 25	115° 15'	Range Line 344+85 (N)
78 81	78 81	2	Y		115 40	
		3	B		116 40	
		4	Y		117 15	
		5	B		118 50	
		6	R	9 27	119 55	
		7	Y		120 40	
		8	B		122 30	
		9	Y		124 10	
		10	B		126 45	
		11	R	9 31	129 40	
		12	Y		133 45	
		13	B		137 50	
		14	Y		141 40	
		15	B		145 10	
		16	R	9 38	147 55	
		17	Y		115 20	? out
		18	B		151 15	
		19	Y			
		20	B			

170' out on range line

ON BASE LINE

Cut-in 344+85 (N)

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 6412 Division No. ____ F.B. 1663 Pg. 45

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

Notes Chkd. ____ Date ____ Survey by Klienck Notes McB Date 12/9/48

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
358 + 78.71 (N)	358 + 78.71 (N)	1	R	9 54	148° 45'	RANGE LINE	346 + 21.81 (N)
		2	Y		146 00		
		3	B		143 20		
		4	Y		139 45		
		5	B		135 50		
		6	R	10 04	133 50		
		7	Y		131 40		
		8	B		128 50		
		9	Y		125 45		
		10	B		123 25		
		11	R	10 10	121 25		
		12	Y		119 15		
		13	B		118 10		
		14	Y		116 50		
		15	B		116 00		

Cut-in 346 + 21.81 (N) 170' out on range line

ON Base Line

F.B. No. 46 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Date Date X-Sec.
Survey by Klieneck Notes MSB 12/9/48 Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:22~~	8.2 6.5	7.1 ✓	35	3.6	Range Line 344+85 (N)
2	Y	8:22	8.5 7.0	7.5 ✓	35	4.0	Nr. N. end of Ocean Pk. Pr.
3	B		10.1 8.0	8.7 ✓	35	5.2	
4	Y		10.6 9.4	9.8 ✓	35	6.3	
5	B		12.6 11.0	11.5 ✓	35	8.0	
6	R	~~9:25~~	14.0 12.8	13.2 ✓	34	9.8	
7	Y	8:25	14.8 13.5	13.9 ✓	34	10.5	
8	B		16.4 14.9	15.4 ✓ ~~15.7~~	34	12.0	
9	Y		18.0 16.1	16.7 ✓	34	13.3	
10	B		19.0 17.8	18.2 ✓	34	14.8	
11	R	~~9:28~~	20.9 19.1	19.7 ✓	34	16.3	
12	Y	8:28	22.8 20.2	21.1 ✓	34	17.7	
13	B		24.0 22.0	22.7 ✓	34	19.3	
14	Y		25.1 23.4	24.0 ✓	34	20.6	
15	B		26.7 25.0	25.6 ✓	34	22.2	
16	R	~~9:35~~	28.0 26.0	26.7 ✓	33	23.4	
17	Y	8:35	29.3 27.4	28.0 ✓	33	24.7	
18	B	~~9:37~~ 8:37	29.0 28.0	28.3 ✓	33	25.0	

Boat 344+85 (N)

Profile Notes Red M. X. Plotted ____ Job No. 8412 Division No. V
No. ____ Date 1-4-49 Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleineck Notes R. T. M. Date 12-9-48
No. ____ Date ____ Date ____ Map No. ____ Andered Job ____ Date ____

F.B. 4503 Pg. 47

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:51~~	29.0 21.5	28.0 ✓	32	24.8	
2	Y	8:51	28.2 26.2	26.9 ✓	32	23.7	Range line 346+21.81 (N)
3	B		26.5 25.0	25.5 ✓	32	22.3	First Line N. of Ocean Pk Pier
4	Y		25.0 23.3	23.9 ✓	32	20.7	
5	B		23.0 21.2	21.8 ✓	32	18.6	
6	R	~~10:01~~	22.6 19.6	20.6 ✓	31	17.5	
7	Y	9:01	20.6 18.9	19.5 ✓	31	16.4	
8	B		20.5 17.8	18.7 ✓	31	15.6	
9	Y		19.7 16.8	17.8 ✓	31	14.7	
10	B		17.0 15.0	15.7 ✓	31	12.6	
11	R	~~10:07~~	15.0 13.4	13.9 ✓	30	10.9	
12	Y	9:07	13.4 11.0	11.8 ~~11.5~~ ✓	30	8.8	
13	B		11.3 9.6	10.2 ✓	30	7.2	
14	Y		10.0 8.9	8.9 ✓	30	5.9	
15	B	~~10:10~~	8.0 7.0	7.3 ✓	30	4.3	
16	R	9:10					
17	Y						
18	B						
19	Y						
20	B						

Boat 346+21.81 (N)

F.B. 1503 PG. 48

Job No. 8412 Division No. ____ Notes Red. M.J. Plotted ____ Date 1-4-49 Date ____ No. ____ Profile

Survey of Beach Erosion Notes S.H. 9/4/48 Notes Chkd. ____ Checked ____ Date ____ No. ____ X-Sec.

Survey by Kleineck Date ____ Date ____ Date ____

Indexed C. Johnson

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
348	348	1	R	10:24	179° 50'	RANGE LINE ∡ = 83° 57' 13"
+73 21	+	2	Y		180° 05'	FROM SOUTH
	73 21	3	B		179° 15'	
		4	Y		179° 45'	
		5	B		180° 05'	
		6	R	10:27	179° 45'	
		7	Y		179° 05'	
		8	B		179° 30'	
		9	Y		179° 55'	
		10	B		180° 05'	
		11	R	10:30	180° 05'	
		12	Y		180° 00'	
		13	B		180° 15'	
		14	Y		179° 45'	
		15	B		179° 50'	
		16	R	10:35	180° 05'	
		17	Y		180° 00'	
		18	B		180° 00'	
		19	Y		180° 10'	

Inst. 250 OUT ON RANGE LINE

ON BASE LINE

Range 348 + 73.21 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 49

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-9-48

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

FORM 301 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
351	351	1	R	10:48	179° 55	RANGE LINE ∡ = 83° 57' 13"	
+	+	2	Y		180° 00'		FROM SOUTH
24 61	24 61	3	B		179° 55'		
		4	Y		180° 10'		
		5	B		180° 15'		
		6	R	10:56	180° 10'		
		7	Y		180° 20'		
		8	B		180° 05'		
		9	Y		180° 10'		
		10	B		179° 55'		
		11	R	11:03	179° 35'		
		12	Y		179° 30'		
		13	B		179° 25'		
		14	Y		179° 35'		
		15	B		179° 30'		
		16	R	11:06	179° 20'		

Inst. Range 351 + 24.61 (N)
OUT 230' ON RANGE LINE

ON BASE LINE

F.B. 1503 PG. 50

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

Survey of BEACH E ROSION Date ____ Date ____ No. ____

Survey by KLEINECK Notes HHR 12-9-48 Notes Chkd ____ Checked ____ X-Sec. ____

Indexed A. C. Imbrigo Date ____ Date ____ Date ____ No. ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. Right At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
358+78.21 (N)	358+78.21	1	R	10 26	115° 45'	RANGE LINE	348+73.21 (N)
		2	Y		117 10		
		3	B		118 20		
		4	Y		119 45		
		5	B		120 30		
		6	R	10 29	121 40		
		7	Y		123 10		
		8	B		124 40		
		9	Y		126 55		
		10	B		129 35		
		11	R	10 32	132 10		
		12	Y		134 45		
		13	B		137 35		
		14	Y		141 10		
		15	B		145 15		
		16	R	10 37	148 50		
		17	Y		151 30		
		18	B		154 00		
		19	Y		154 35		

170' out of range line

On Base Line

Cut-in 348+73.21 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1030 51

No. ____ Date ____ Date ____ Survey of Beach Erosion

X Sec. Name Chkd. ____ Checked ____ Survey by Kherneck Notes MS B Date ____

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION	B.S.	H.I.		F.S.	ELEV.		
Inst Sight At	Cn	#	Color	Time	Hor. Ang.		Remarks
358+78.71 (N)	358+	1	R	10 50	160 05	RANGE LINE	351+24.61 (N)
	78.71 (N)	2	Y		157 50		
		3	B		155 40		
		4	Y		154 20		
		5	B		151 45		
		6	R	10 58	147 10		
		7	Y		142 50		
		8	B		138 40		
		9	Y		134 35		
		10	B		129 55		
		11	R	11 04	127 10		
		12	Y		126 00		
		13	B		125 25		
		14	Y		124 00		
		15	B		122 40		
		16	R	11 08	119 50		
		17	Y				
		18	B				

170' out on range line.

On Base Line

Cut-in 351+24.61 (N)

F.B. 1 Sog. 52 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Klieneck Notes McB 12/9/48 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date 1-4-49 Plotted ____ Date ____ Job No. 2412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by ~~Kilpatrick~~ Notes E.T.H.J. Date 12-4-48 Map No. ____ Indexed Johnson Date ____

F.B. 1613 PG. 53

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10 23~~	~~7.4~~ 6.0	5 1✓	29	2.2	Rangeline 348+732(N)
2	Y	9:23	7.4 5.8	6 3✓	29	3.4	
3	B		8.4 7.5	7 8✓	29	4.9	
4	Y		11.1 9.1	9 8✓	29	6.9	
5	B		12.7 10.2	11 0✓	29	8.1	
6	R	~~10 27~~	13.0 11.8	12 2✓	29	9.3	
7	Y	9:27	14.2 13.4	13 7✓	29	10.8	
8	B		16.2 14.3	14 9✓	29	12.0	
9	Y		17.0 15.5	16 0✓	29	13.1	
10	B		18.2 17.5	18 1✓	29	15.2	
11	R	~~10 30~~	20.2 18.7	19 2✓	29	16.3	
12	Y	9:30	21.0 19.8	20 2✓	29	17.3	
13	B		22.1 20.1	20 8✓	29	17.9	
14	Y		23.0 21.5	22 0✓	29	19.1	
15	B		24.0 22.8	23 2✓	29	20.3	
16	R	~~10 34~~	25.5 24.2	24 6✓	29	21.7	
17	Y	9:34	26.2 25.4	25 7✓	29	22.8	
18	B		28.4 27.2	27 6✓	29	24.7	
19	Y	~~10 38~~	28.2 27.0	27 4✓	28	24.6	Last shot
20	B	9:38					

Boat
348+732(N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date 1-4-49 Notes Chkd. Date

Division No. V Job No. 842 Notes RJM 12/8/48

Survey of Beach Erosion

Survey by Kleinecke Notes Date

Indexed A. O. Johnson Date

F.B. 1013 PG. 54

STATION #	Color	Time	H.I. Mean Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10:47~~	28.5	28 3v	28	25.5	Range Line 351+24± (V)
2	Y	9:47	28.8	28 0v	28	25.3	
3	B		27.5	26 2v	28	23.4	
4	Y		25.5	24 5v	28	21.7	
5	B		23.6	23 0v	28	20.2	
6	R	~~10:55~~	22.3	21 4v	27	18.7	
7	Y	9:55	21.0	20 7v	27	18.0	
8	B		20.0	19 4v	27	16.7	
9	Y		19.0	18 0v	27	15.3	
10	B		17.5	15 7v	27	13.0	
11	R	~~11:02~~	16.5	13 8v	27	11.1	
12	Y	10:02	14.5	12 5v	27	9.8	
13	B		13.4	11 8v	27	9.1	
14	Y		13.5	9 8v	27	7.1	
15	B		12.0	8 3v	27	5.6	
16	R	~~11:07~~	13.3	6 0v	27	3.3	
17	Y	10:07	11.0				
18	B		10.3				
19	Y		9.5				
20	B		9.3				
			7.8				
			7.5				
			5.3				

Boat 351+24.6 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	Inst. At	B. S. Sight On	H. I. #	F. S. Color	ELEV. Time	Hor. Ang.	Remarks
353	353	1	R	11:31	180°00'	RANGE LINE ∡ = 83°57'13" FROM SOUTH	
+	+	2	Y		179°40'		
76°1	76°1	3	B		179°50'		
		4	Y		179°05'		
		5	B		180°00'		
		6	R	11:37	180°10'		
		7	Y		179°10'		
		8	B		179°45'		
		9	Y		179°55'		
		10	B		180°00'		
		11	R	11:41	179°50'		
		12	Y		179°50'		
		13	B		179°45'		
		14	Y		179°25'		
		15	B		179°50'		
		16	R	11:49	179°40'		
		17	Y		180°15'		
		18	B		180°00'		

Inst. OUT 200' ON RANGE LINE.

ON BASE LINE.

Range 353+76°1 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION
Date ____ Checked ____ Survey by KLEINFELDER Notes HHR Date 12-9-[illegible]
Date ____ Date ____ Map No. ____ Indexed Job Page Date ____

F.B. 1503 Pg. 55

F.B. 1503 PG. 56 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date | Date | No.

Survey by KLEINECK | Notes HHR 12-9-48 | Notes Chkd. | Checked | X-Sec.

Indexed G. JOHNSON | Date | Date | Date | No.

Range 356 + 27.41 (W)

Inst. OUT 190 ON RANGE LINE.

ON BASE LINE.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
356	1	R	12:03	179°35'	
356 +27.41	2	L		179°35'	RANGE LINE Y = 8357.13" FROM 300TH
+27.41	3	B		179°55.	
	4	L		179°50.	
	5	B		179°55.	
	6	R	12:13	179°55.	
	7	L		180°08.	
	8	B		179°45.	
	9	L		179°55.	
	10	B		179°20.	
	11	R	12:21	179°50.	
	12	L		179°50.	
	13	B		180°20.	
	14	L		179°55.	
	15	B		179°15.	
	16	R	12:24	176°50.	

FORM 303 10M 10-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
346+ 21.81	346+ 21.81	1	R	11 33	258 50	RANGE LINE	353+76.01 (N)
		2	Y		258 10		
		3	B		256 35		
		4	Y		255 20		
		5	B		253 00		
		6	R	11 39	250 55		
		7	Y		248 50		
		8	B		245 55		
		9	Y		242 00		
		10	B		239 15		
		11	R	11 44	236 45		
		12	Y		230 05		
		13	B		224 45		
		14	Y		218 40		
		15	B		211 15		
		16	R	11 52	207 30		
		17	Y		205 30		
		18	B		203 55		

300' out on range line

On Base Line

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. [illegible] 57

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd. ____ Checked ____ Survey by Klienack Notes MSB Date 12/9/48

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

Cut-in 353+76.01 (N)

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
346+ 21 41 (N)	346+ 21 41 N	1	R	12 01	209 55	RANGE LINE 356+27 41 (N)
		2	Y		208 45	
		3	B		214 40	
		4	Y		218 10	
		5	B		221 35	
		6	R	12 15	229 00	
		7	Y		237 55	
		8	(Y) B		243 20	
		9	Y		248 50	
		10	B		253 00	
		11	R	12 23	255 20	
		12	Y		257 15	
		13	B		259 40	
		14	Y		261 55	
		15	B		263 15	
		16	R	12 26	266 40	
		17	Y			
		18	B			
		19	Y			

Cut-in 356+27.41 (N) 300' out on range line

On Base Line

F.B. 163 a 58

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

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

Survey by Klieneck Notes M&B 12/9/48 Notes Chkd. ____ Checked ____ X-Sec. ____

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~4:31~~	8.0 6.2	6 8v	26	4.2	Range Line 353+76
2	Y	10:31	9.0 7.2	7 8v	26	5.2	
3	B		9.7 8.0	8 6v	26	6.2	
4	Y		10.0 9.0	10 0v	26	7.4	
5	B		11.5 11.3	11 4v	26	8.8	
6	R	~~4:37~~	15.8 12.3	13 4v	26	10.8	
7	Y	10:37	15.0 13.8	14 2v	26	11.6	
8	B		15.7 15.0	15 7v	26	13.1	
9	Y		19.1 16.8	17 6v	26	15.0	
10	B		18.2 18.8	18 7v	26	16.1	
11	R	~~4:41~~	20.0 19.0	19 3v	26	16.7	
12	Y	10:41	21.7 20.0	20 6v	26	18.0	
13	B		22.8 21.5	21 5v	26	18.9	
14	Y		23.8 22.5	22 9v	26	20.3	
15	B	10:49	25.2 23.5	24 1v	25	21.6	
16	R	~~4:47~~	27.0 25.0	25 7v	25	23.2	
17	Y		28.6 26.5	27 2v	25	24.7	
18	B	~~4:51~~	28.5 27.4	27 8v	25	25.3	
19	Y	10:51					
20	B						

Profile No. ____ Notes Red 20.26 Plotted ____ Job No. 8412 Division No. 1
Date 1-4-49 Date ____ Survey of Range Line
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Kilmeck Notes RJTM Date 12/19/48
Date ____ Date ____ Map No. ____ Indexed Jackson Date ____

F.B. 1463 PG. 59

Bat.
353+76.01 (W)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. 1059 PG. 60 | Profile No. | X-Sec. No.

Job No. 8412 Division No. K Notes Red. M. D. Plotted
Survey of Beach Erosion Date 1-4-49 Date
Survey by Klimeck Notes R.T.M. 12/7/48 Notes Chkd. Checked
Indexed C. Jensen Date Date Date

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~12:01~~	~~28.2~~ 28.9	27.3✓	25	24.8	Range 356+2[illegible] K
2	Y	11:01	28.9 27.7	28.1✓	25	25.6	Boat went out to get this
3	B		27.0 25.5	26.0✓	25	23.5	Boat going in
4	Y		25.9 24.9	24.6✓	25	22.1	
5	B		24.1 23.2	23.5✓	25	21.0	
6	R	~~12:13~~	22.8 21.9	21.7✓	25	19.2	
7	Y	11:13	21.2 20.0	20.4✓	25	17.9	
8	B		19.5 19.0	19.2✓	25	16.7	
9	Y		18.2 17.4	17.7✓	25	15.2	
10	B		16.1 15.1	15.4✓	25	12.9	
11	R	~~12:20~~	14.5 14.0	14.2✓	25	11.7	
12	Y	11:20	13.9 12.9	12.7✓	25	10.2	
13	B		11.8 10.6	11.0✓	25	8.5	
14	Y		9.9 9.4	9.1✓	25	6.6	
15	B		7.0 6.0	7.8✓	25	5.3	
16	R	~~12:23~~	9.0	4.7✓	25	2.2	Boat. 356+27.41 (N)
17	Y	11:23					
18	B						
19	Y						
20	B						

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	Inst. At	B. S. Sight On	H. I. #	F. S. Color	ELEV. Time	Hor. Ang.	Remarks
358	358	1	R	12:32	181°20'	RANGE LINE ∠ =	83°57'13"
+	+	2	Y		179°50'		FROM SOUTH
78 81	78 81	3	B		~~179°45'~~		
		4	Y		180°15'		
		5	B		179°45'		
		6	R	12:36	180°00'		
		7	Y		180°20'		
		8	B		179°50'		
		9	Y		180°20'		
		10	B		179°45'		
		11	R	12:43	180°05'		
		12	Y		179°30'		
		13	B		179°30'		
		14	Y		179°25'		
		15	B		179°50'		
		16	R	12:53	179°30'		
		17	Y		179°50'		
		18	B		179°45'		
		19	Y		180°30'		
		20	B		180°10'		

OUT 170' ON RANGE LINE

ON BASE LINE.

Range 358+78.81(N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 61

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd. ____ Checked ____ Survey by KLENECK Notes H.H.R. Date 12-9-48

No. ____ Date ____ Date ____ Map No. ____ Indexed 4 C Job Name Date ____

F.B. 1503 PG. 62 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION | Date | Date | No.

Survey by KLEINECK | Notes HHR 12-9-48 | Notes Chkd. | Checked | X-Sec.

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

Range
361 + 30.21 (N)

Inst. OUT 160' ON RANGE LINE.

ON BASE LINE.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
361 + 30.21	1	R	1:12	179°25'	RANGE LINE 4 = 83° 57' 13" FROM SOUTH	
361 + 30.21	2	Y		179°50'		
	3	B		180°00'		
	4	Y		179°55'		
	5	B		180°00'		
	6	R	1:25	180°00'		
	7	Y		179°50'		
	8	B		179°50'		
	9	Y		179°10'		
	10	B		179°45'		
	11	R	1:31	180°20'		
	12	Y		179°25'		
	13	B		179°35'		
	14	Y		180°20'		
	15	B		179°55'		

FORM 30 TOM 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
346+ 21 41 (N)	346+ 21 41 (N)	1	R	12 35	266 00	RANGE LINE	358+78 81 (N)
		2	Y		264 55		
		3	B		— —		
		4	Y		263 20		
		5	B		262 05		
		6	R	12 38	261 10		
		7	Y		259 50		
		8	B		255 30		
		9	Y		253 30		
		10	B		251 30		
		11	R	12 45	246 45		
		12	Y		242 00		
		13	B		237 40		
		14	Y		231 10		
		15	B		227 10		
		16	R	12 55	222 50		
		17	Y		220 50		
		18	B		218 15		
		19	Y		217 25		
		20	B		216 15		

300' out on range line

On Base Line

Cut in 358+78 81 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 46 Pg. 63

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd. ____ Checked ____ Survey by Kliener & Notes MSB Date 12/9/48

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
346 +20.41	346	1	R	1 13	221 35	RANGE LINE 361+30.21 (N)
(N)	+20.41	2	Y		227 20	
		3	B		232 55	
		4	Y		238 05	
		5	B		247 10	
		6	R	1 27	253 25	
		7	Y		256 15	
		8	B		259 15	
		9	Y		261 40	
		10	B		263 30	
		11	R	1 34	265 20	
		12	Y		264 55	
		13	B		266 35	
		14	Y		268 45	
		15	B		267 35	ok.

Cut-in 361+30.21 (N) 300' out on range line

On Base Line

F.B. 1503 Pg. 64

Job No. 5402 Division No. Notes Red. Plotted No. Profile

Survey of Beach Erosion Date Date X-Sec.

Survey by Hauser Notes 1-5-48 12-4-47 Notes Chkd Checked No.

Indexed A. C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____

Notes Red Date 1-4-49 Plotted Date ____ Checked Date ____ Notes Chkd Date ____

Job No. 5412 Division No. 1 Survey of Beach Erosion Survey by Kleinpeter Notes RJM Map No. ____ Indexed ____ Date 2/8/46

F.B. 4603 Pg. 65

STATION		B. S.	H. I.	F. S.	ELEV.	273	
#	Color	Time	Depth	Bottom	Elev.	Adj. Depth	Remarks
1	R	~~11:31~~	9.1 6.6	7 4	25	4.9	Range Line 358+78± N
2	Y	11:31	9.8 8.0	8 6	25	6.1	
3	B		~~10.3~~ 9.0	~~9 4~~	25		Out
4	Y		11.9 10.7	~~11 4~~	25	8.6	
5	B		13.0 12.0	12 3	25	9.8	
6	R	~~12:35~~	14.5 13.8	14 0	25	11.5	
7	Y	11:35	16.0 15.0	15 3	25	12.8	
8	B		17.6 16.1	16 6	25	14.1	
9	Y		18.8 17.9	18 2	25	15.7	
10	B		19.4 18.4	18 7	25	16.2	
11	R	~~12:41~~	21.0 19.7	20 1	25	17.6	
12	Y	11:41	22.3 20.9	21 4	25	18.9	
13	B		23.0 21.8	22 2	25	19.7	
14	Y		24.3 23.1	23 5	25	21.0	
15	B		25.5 24.3	24 7	25	22.2	
16	R	~~12:52~~	25.8 24.9	25 2	26	22.6	
17	Y	11:52	27.2 25.9	26 3	26	23.7	
18	B		27.9 26.3	26 8	26	24.2	
19	Y		28.1 27.1	27 4	26	24.8	
20	B		27.0 27.1	27 7	26	25.1	

Boat
358+78±(N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~1 11~~	28.7 27.3	27 8✓	26	25.2	Range line 361+30.21 N
2	Y	12:11	28.0 25.7	26 5✓	26	23.9	
3	B		26.0 23.8	24.5 ~~24 7~~✓	26	21.9	
4	Y		24.8 22.8	23 5✓	26	20.9	
5	B		22.8 20.8	21 2✓	26	18.6	
6	R	~~1 25~~	20.0 19.0	19 3✓	27	16.6	
7	Y	12:25	18.9 17.9	18 2✓	27	15.5	
8	B		17.1 16.2	16 5✓	27	13.8	
9	Y		15.3 14.4	14 7✓	27	12.0	
10	B		14.1 13.1	13 4✓	27	10.7	
11	R	~~1 32~~	12.1 11.4	11 6✓	27	8.9	
12	Y	12:32	12.9 10.8	11 5✓	27	8.8	
13	B		9.9 9.0	9 3✓	27	6.6	
14	Y		7.3 5.6	6 3✓	27	3.6	
15	B		8.3 7.0	7 4✓	27	4.7	Boat going out to get this
16	R						
17	Y						
18	B						
19	Y						
20	B						

Boat 361+30.21 N

F.B. 1503 PG. 66

Job No. 8412 Division No. V Notes Red. M.C.Y. Plotted No. Profile

Survey of Beach Erosion Date 1-4-49 Date X-Sec.

Survey by Kleineck Notes RJM 12/9/48 Notes Chkd. Checked No.

Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
363	363	1	R	8:27	179°55'	Range Line ∡=83°57'13"
+	+	2	Y		180°40'	FROM SOUTH
81.61	81.61	3	B		180°25'	
(N)	(N)	4	Y		180°40'	
		5	B		180°45'	
		6	R	8:30	180°20'	
		7	Y		180°00'	
		8	B		180°40'	
		9	Y		180°00'	
		10	B		180°15'	
		11	R	8:34	180°40'	
		12	Y		179°30'	
		13	B		180°05'	
		14	Y		180°15'	
		15	B		180°10'	
		16	R	8:41	179°55'	
		17	Y		179°55'	
		18	B		180°05'	
		19	Y		180°20'	

OUT 140' ON RANGE LINE

ON BASE LINE

Range 363+81.61 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 67

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

Notes Chkd ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-13-48

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
366	366	1	R	9:15	179°50'	RANGE LINE ∡ =	83°57'13"
+	+	2	Y		180°30'		FROM SOUTH
33°01'	33°01'	3	B		180°00'		
(N)	(N)	4	Y		179°55'		
		5	B		179°55'		
		6	R	9:20	179°25'		
		7	Y		179°35'		
		8	B		179°45'		
		9	Y		179°35'		
		12	B		180°10'		
		11	R	9:24	180°00'		
		12	Y		179°55'		
		13	B		179°55'		
		14	Y		180°15'		
		15	B		180°25'		
		16	R	9:30	180°20'		
		17	Y		179°55'		
		18	B		179°55'		
		19	Y		179°50'		

OUT 120' ON RANGE LINE

ON BASE LINE

Range 366 + 33°01' (N)

F.B. 1503 PG. 68 Job No. 8412 Division No. Notes Red Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by KLEINECK Notes HHR 12-13-48 Notes Chkd Checked X-Sec.

Indexed A. C. Johnson Date Date No.

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
356	356+	1	R	8 27	258 30		
[illegible]	27 41	2	Y		256 05	RANGE LINE 363+81.61 (N)	
		3	B		254 20	Going Out	
		4	Y		252 40		
		5	B		250 35		
		6	R	8 30	247 50		
		7	Y		245 40		
		8	B		243 25		
		9	Y		239 30		
		10	B		237 45		
		11	R	8 34	235 35		
		12	Y		233 35		
		13	B		229 00		
		14	Y		223 00		
		15	B		220 45		
		16	R	8 40	214 55		
		17	Y		211 10		
		18	B		206 40		
		19	Y		205 10		
		20	B				

190' out on range line

Base Line

Profile No. ____ Notes Red ____ Plotted ____ Job No. [illegible] Division No. ____ F.B. 1603 Pg. 69

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

Notes Chk. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Cut-in 363+81.61 (N)

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
356+	356+	1	R	9 14	260 55	Range Line 366+33 01 (N)
27 41	27 41	2	Y		259 50	Going Out
		3	B		258 20	
		4	Y		255 35	
		5	B		254 20	
		6	R	9 20	252 35	
		7	Y		251 20	
		8	B		249 40	
		9	Y		247 10	
		10	B		245 40	
		11	R	9 24	243 55	
		12	Y		238 30	
		13	B		233 50	
		14	Y		229 00	
		15	B		225 25	
		16	R	9 30	220 40	
		17	Y		216 25	
		18	B		212 40	
		19	Y		209 30	
		20	B			

Base Line

Cut-in 366+33.01 (N)
190' out on range line.

F.B. 1403 G. 70 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No. X-Sec.
Survey by Alienech Notes J.W.S.M. 12-13-48 Notes Chkd. Checked
Indexed C. Jeptson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Notes Red 7M 12 Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date 1-4-59 Date ____ Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Kluenerck Notes 7M 25 Date 12-13-58
Date ____ Date ____ Map No. ____ Adj. Johnson Date ____

F.B. 1513 Pg. 71

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Time	Adj. Depth	Remarks
1	R	~~8:24~~	6.8	7.4	59	1.5	Range Line 363+81.6 (N)
2	Y	7:26	7.5	8.0	59	2.1	
3	B		8.5	8.9	59	3.0	
4	Y		9.8	10.3	59	4.4	
5	B		11.5	11.8	59	6.0	
6	R	~~8:29~~	13.2	14.0	58	8.2	
7	Y	7:29	15.0	[illegible]	58	9.6	
8	B		17.0	17.4	58	11.6	
9	Y		19.4	19.4	58	13.6	
10	B		20.6	20.1	58	14.3	
11	R	~~8:34~~	20.4	20.9	58	15.1	
12	Y	7:34	21.8	21.9	58	16.1	
13	B		23.0	23.7	58	17.9	
14	Y		23.4	24.2	58	18.4	
15	B		24.6	25.1	58	19.3	
16	R	~~8:40~~	26.0	26.5	58	20.7	
17	Y	7:40	27.5	27.6	58	21.8	
18	B		29.0	29.2	58	23.4	
19	Y		29.3	29.6	58	23.8	
20	B						

Boat
363+81.6 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:14~~	9 0 / 7 0	77 ✓	54	2.3	
2	Y	8:14	9 0 / 8 0	83 ✓	54	2.9 Range Line 366 + 33.01	
3	B		10 5 / 9 5	~~102~~ 98 ✓	54	4.4	
4	Y		12 4 / 10 5	111 ✓	53	5.8	
5	B		13 4 / 12 4	127 ✓	53	7.4	
6	R	~~9:19~~	15 0 / 13 5	140 ✓	52	8.8	
7	Y	8:19	15 8 / 14 5	149 ✓	52	9.7	
8	B		16 4 / 15 8	~~161~~ 16.0 ✓	52	10.8	
9	Y		18 5 / 16 8	~~172~~ 17.3 ✓	52	12.1	
10	B		19 4 / 18 4	187 ✓	52	13.5	
11	R	~~9:25~~	21 5 / 20 0	205 ✓	52	15.3	
12	Y	8:25	22 6 / 21 2	215 ✓	52	16.3	
13	B		24 4 / 23 0	235 ✓	52	18.3	
14	Y		25 3 / 24 4	247 ✓	52	19.5	
15	B		26 6 / 25 2	257 ✓	52	20.5	
16	R	~~9:31~~	27 2 / 26 7	269 ✓	51	21.8	
17	Y	8:31	28 3 / 27 3	276 ✓	51	22.5	
18	B		29 5 / 28 5	288 ✓	51	23.7	
19	Y		30 1 / 29 8	299 ✓	51	24.8	
20	B						

Boot 366 + 33.01 (N)

F.B. 1503 PG. 72

Job No. 8412 Division No. ____ Notes Red. M.C.K. Plotted ____ Date 1-4-49 Date ____ No. ____ Profile

Survey of Beach Erosion Notes McB 12/13/48 Notes Chkd. ____ Checked ____ X-Sec.

Survey by Klieneck Date ____ Date ____ No. ____

Indexed by C. Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
368	"N-33"	1	R	9:53	83° 20'	RANGE LINE ∡ =	85° 13' 20"
+		2	Y		83° 30'		FROM SOUTH
83.98		3	B		84° 00'		
(N)		4	Y		83° 30'		
		~~5~~	~~B~~		~~85° 10'~~	Out.	
		6	R	10:03	85° 10'		
		7	Y		84° 55'		
	=	8	B		84° 30'		
		9	Y		84° 30'		
	=	10	B		84° 45'		
		11	R	10:12	85° 20'		
		12	Y		84° 15'		
	=	13	B		85° 05'		
		14	Y		84° 15'		
		15	B		84° 30'		
	"	16	R	10:17	84° 45'		
		17	Y		84° 45'		
	=						

100' out on range line

Range 368 + 83.98 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION
Notes Chkd ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-13-48
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1503 Pg. 73

FORM 308 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
371	" N-33 "	1	R	10:28	84° 10'	RANGE LINE ∡ =	85° 13' 20'
+		2	Y		84° 05'		FROM SOUTH.
34.85		3	B		84° 50'		
(N)		4	Y		85° 20'		
		5	B		85° 05'		
		6	R	10:33	85° 40'		
	"	7	Y		84° 30'		
		8	B		84° 45'		
	"	9	Y		84° 50'		
		10	B		85° 10'		
		11	R	10:39	85° 15'		
	"	12	Y		85° 35'		
		13	B		85° 40'		
		14	Y		85° 20'		
	"	15	B		85° 40'		
		16	R	10:48	85° 55'		
		17	Y		85° 35'		
	"						

Range 371+34.85 (N) 100' out on range line

F.B. 1503 PG. 74 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH E ROSION Date Date X-Sec.
Survey by KLEINECK Notes HHR 12-13-48 Notes Chkd. Checked No.
Indexed A. C. Jenkins Date Date Date

FORM 307 10M 10-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
361+31.61	361+	1	R	9 51	201	35	Range Line 368+83.98 (N)
	31.61	2	Y		203	40	Coming In
		3	B		206	00	
		4	Y		208	20	
		5	B				
		6	R	10 01	219	45	
		7	Y		225	00	
		8	B		228	40	
		9	Y		231	30	
		10	B		236	10	
		11	R	10 09	237	30	
		12	Y		238	40	
		13	B		240	50	
		14	Y		244	00	
		15	B		247	25	
		16	R	10 14	249	10	
		17	Y		252	15	
		18	B				
		19	Y				
		20	B				

150' out on Range Line

Base Line

Cut-in 368+83.98 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 75

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd. ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-13-48

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

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
361+	361+	1	R	10 25	257 40		
31 61	31 61	2	Y		256 30	Range Line 371+34 85 - (N)	
		3	B		255 00	Going out	
		4	Y		254 10		
		5	B		252 20		
		6	R	10 31	250 55		
		7	Y		248 30		
		8	B		245 45		
		9	Y		242 40		
		10	B		240 40		
		11	R	10 37	237 30		
		12	Y		233 25		
		13	B		228 20		
		14	Y		219 20		
		15	B		216 40		
		16	R	10 45	213 15		
		17	Y		210 25		
		18	B				
		19	Y				
		20	B				

Base Line

Cut-in 371+34.85 (N) 150' Out on Range Line

F.B. 1509 PG. 76

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

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

Survey by Klieneck Notes J.W.S.M. 12-13-48 Notes Chkd. Checked

Indexed A. C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red MJ Plotted ____ Date 1-4-49 Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Job No. 2412 Division No. ____ Survey of Beach Erosion Survey by Klimcock Notes McB Date 12/13/48 Map No. ____ Indexed ____ Date ____ F.B. 465 Pg. 77

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~7:52~~	~~289~~ 297	296	48	24.8	RANGE LINE
2	Y	8:52	~~298~~ 278	285	48	23.7	368+83.98
3	B		290				
4	Y		270	277	48	22.9	
5	B		259	265	47	21.8	
6	R	~~10:02~~	~~248~~ 255				(out)
7	Y	9:02	239	244	46	19.8	
8	B		235	228	46	18.2	
9	Y		225	212	46	16.6	
10	B		219	200	45	15.5	
11	R	~~10:11~~	208	178	45	13.3	
12	Y	9:11	199	166	44	12.2	
13	B		172	161	44	11.7	
14	Y		175	149	44	10.5	
15	B		162	127	44	8.3	
16	R	~~10:16~~	180	110	44	6.6	
17	Y	9:16	151	92	43	4.9	
18	B		160	76	43	3.3	
			143				
			135				
			123				
			122				
			104				
			95				
			90				
			69				

368+53.98 (N)

Bob F

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. 165 PG. 78
Survey of Beach Erosion
Survey by Wolfback
Indexed C. Jeppesen
Job No. 8412 Division No. 5
Notes Red M.T. Plotted
Date 1-4-49 Date
Notes Chkd Checked
Date 12/12/49 Date
Profile No.
X-Sec. No.

STATION #	Color	Time	B. S.	Meas. Depth	H. I. Bottom	F. S.	Ht. Tide	ELEV. Adj. Depth	Remarks
1	R	~~10:27~~		86	77		41	3.6	
2	Y	9:27		105	88		41	4.7	Range line 371+[illegible]
3	B			111	101		41	6.0	
4	Y			121	108		4	6.7	
5	B			139	126		4	8.5	
6	R	~~10:33~~		149	146		40	10.6	
7	Y	9:33		165	158		40	11.8	
8	B			177	166		40	12.6	
9	Y			192	181		39	14.2	
10	B			205	195		39	15.6	
11	R	~~10:39~~		221	208		38	17.0	
12	Y	9:39		235	218		38	18.0	
13	B			245	236		38	19.8	
14	Y			262	248		38	21.0	
15	B			282	255		38	21.7	
16	R	~~10:47~~		299	273		37	23.6	
17	Y	9:47		290	281		37	24.7	
18	B								

Boat 371+34.85 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
373 "N-33"	1	R	11:07	85° 05'	RANGE LINE ∡ -	85° 13' 20"
+	2	Y		85° 20'		FROM SOUTH
85 72	3	B		84° 45'		
(N)	4	Y		84° 45'		
	5	B		84° 20'		
	6	R	11:14	84° 55'		
	7	Y		83° 55'		
	8	B		84° 30'		
	9	Y		84° 50'		
	10	B		84° 50'		
	11	R	11:18	85° 05'		
	12	Y		84° 55'		
	13	B		85° 00'		
	14	Y		85° 30'		
	15	B		85° 25'		
	16	R	11:28	85° 20'		
	17	Y		85° 30'		

ON BASE LINE

Range
373 + 85.72 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 79
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-13-48
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Job Type ____ Date ____

FORM 305 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
376	N-33	1	R	12:03	85° 40'	RANGE LINE ∡ =	85° 13' 20"
+		2	Y		83° 00'		FROM SOUTH
36.59		3	B		84° 30'		
(N)		4	Y		84° 40'		
		5	B		85° 00'		
		6	R	12:10	85° 00'		
		7	Y		84° 40'		
		8	B		84° 40'		
		9	Y		84° 35'		
		10	B		84° 50'		
		11	R	12:19	85° 35'		
		12	Y		84° 30'		
		13	B		85° 35'		
		14	Y		85° 20'		
		15	B		84° 10'		
		16	R	12:30	85° 15'		

Range 376 + 36.59 (N) ON BASE LINE.

F.B. 1503 PG. 80 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION Date Date No.
Survey by KLEINECK Notes HHR 12-13-48 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
361+31.61	361+	1	R	11 05	262	20	Range Line 373+85.72 (N)
	31.61	2	Y		261	25	Going Out
		3	B		260	35	
		4	Y		258	40	
		5	B		257	20	
		6	R	11 11	255	40	
		7	Y		252	50	
		8	B		250	05	
		9	Y		247	45	
		10	B		245	05	
		11	R	11 16	242	20	
		12	Y		237	40	
		13	B		232	40	
		14	Y		228	20	
		15	B		224	15	
		16	R	11 26	218	50	
		17	Y		215	55	
		18	B				
		19	Y				
		20	B				

150' Cut on Range Line

Base Line

Cut-in 373+85.72 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1603 Pg. 81

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Klieneck Notes SWSM Date 12-13-48

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

F.B. 1503 PG. 82 | Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ | Profile No. ____

Survey of Beach Erosion | Date ____ | Date ____ | X-Sec.

Survey by Klieneck Notes J.W.S.M. 12-13-48 Notes Chkd. ____ Checked ____ | No. ____

Indexed C. Johnson Date ____ | Date ____ | Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Cutins
376+36.59 (N)
100' out on Range Line

STATION Inst. At	Sight On	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
3684	N 34	1	R	12 02	332 2[illegible]	
5325		2	Y		330 40	Range Line 376+36.59 (N) Going Out
		3	B		328 25	
		4	Y		327 05	
	"	5	B		32[illegible] 55	
		6	R	12 07	322 35	
	"	7	Y		319 25	
		8	B		313 50	
	"	9	Y		307 [illegible]0	
	"	10	B		302 55	
		11	R	12 15	299 15	
	"	12	Y		29[illegible] [illegible]0	
		13	B		291 15	
		14	Y		289 00	
	"	15	B		286 05	
		16	R	12 33	286 20	ok
		17	Y			
		18	B			
		19	Y			
		20	B			

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red Date 1-4-49 Notes Chkd. Date ____ Plotted Date ____ Checked Date ____ Job No. 8442 Division No. ____ Survey of Beach Erosion Survey by Notes Indexed Johnson Map No. ____ Date ____ F.B. 1/Pg. 53

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~11:07~~	95 59	71 ✓	33	3.8	
2	Y	10:07	85 69	74 ✓	33	4.1	Range line 373+85.72 (N)
3	B		99 82	89 ✓	33	5.6	
4	Y		125 101	109 ✓	33	7.6	
5	B		138 116	121 ✓	33	8.8	
6	R	~~11:15~~	144 134	137 ✓	32	10.5	
7	Y	10:13	161 151	154 ✓	32	12.2	
8	B		184 168	173 ✓	32	14.1	
9	Y		190 179	183 ✓	31	15.2	
10	B		203 198	200 ✓	31	16.9	
11	R	~~11:18~~	212 202	205 ✓	30	17.5	
12	Y	10:18	225 217	220 ✓	30	19.0	
13	B		246 238	237 ✓	30	20.2	
14	Y		257 247	248 ✓	29	21.9	
15	B		256 246	249 ✓	29	22.0	
16	R	~~11:27~~	272 261	265 ✓	28	23.7	
17	Y	10:27	287 270	276 ✓	28	24.8	
18	B						

Book 7
373+85.72 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks	
R ~~1203~~	73	75 ✓	20	5.5		
Y 11:03	105	90 ✓	20	7.0	Range line 376+3659 (N)	
B	120 99	106 ✓	20	8.6		
Y	130 120	123 ✓	20	9.3		
B	154 140	145 ✓	20	12.5		
R ~~1209~~	169 156	160 ✓	19	14.1		
Y 11:09	173 170	171 ✓	19	15.2		
B	196 181	186 ✓	19	16.7		
Y	202 198	199 ✓	18	18.1		
B	222 212	215 ✓	18	19.7		
R ~~1217~~	229 215	220 ✓	17	20.3		
Y 11:17	239 229	232 ✓	17	21.5		
B	251 240	244 ✓	16	22.8		
Y	262 250	254 ✓	16	23.8		
B	269 260	263 ✓	15	24.8		
R ~~1230~~	274 274	274 ✓	14	26.0	Bot 376+~~65~~ 36.59 (N)	
Y 11:30						
B						

F.B. 1503 PG. 14

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

Survey of Beach EROSION Date 1-5-49 Date ____ No. ____

Survey by Kleinecke Notes S.H. 12/13/48 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
378 "N-33"	1	R	12:41	84°45'		
+	2	Y		84°50'	RANGE LINE ∡ =	85° 13' 20"
87.46	3	B		84°55'		FROM SOUTH
(N)	4	Y		84°55'		
	5	B		84°55'		
	6	R	12:48	84°30'		
	7	Y		84°40'		
	8	B		84°55'		
	9	Y		85°00'		
	10	B		84°20'		
	11	R	12:58	84°35'		
	12	Y		85°10'		
	13	B		84°35'		
=	14	Y		84°55'		
	15	B		84°55'		
=						
=						

ON BASE LINE

Range
378 + 87.46 (N)

Profile
No. ____ Date ____
X-Sec.
No. ____ Date ____
Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
Notes Chkd. ____ Checked ____ Survey of BEACH EROSION
Date ____ Date ____ Survey by K. Rinck Notes H.H.R. Date 12-13-48
Map No. ____ Date ____ Map No. ____ Date ____ Tracer: Jobson Date ____

F.B. 1603 Pg. 95

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.
381	1	R	1:19	82° 05'
+	2	Y		83° 35'
38.65	3	B		83° 05'
(N)	4	Y		82° 05'
	5	B		83° 05'
	6	R	1:24	81° 50'
	7	Y		83° 20'
	8	B		82° 05'
	9	Y		81° 45'
	10	B		82° 35'
	11	R	1:31	82° 40'
	12	Y		83° 00'
	13	B		82° 40'
	14	Y		82° 55'
	15	B		82° 40'
	16	R	1:44	83° 20'

See Sketch

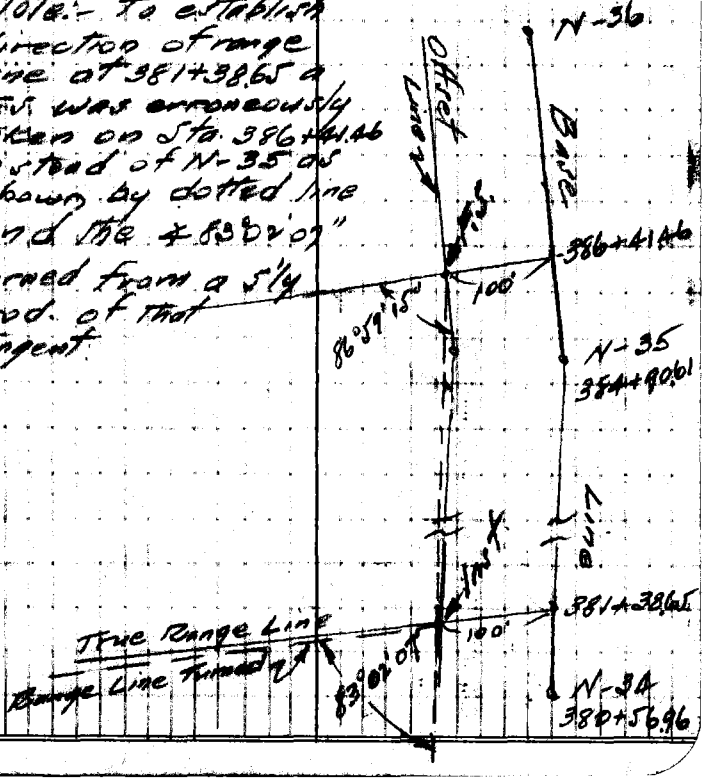
See Sketch under Remarks

Range 381+38.65 (N) 100' Out on Range Line

Remarks

RANGE LINE ∡ = 83° 02' 07" FROM SOUTH

Note:- To establish direction of range line at 381+38.65 a F.S. was erroneously taken on Sta. 386+41.46 instead of N-35 as shown by dotted line and the ∡ 83°02'07" turned from a s'ly prod. of that tangent



F.B. 1503 Pg. 86 Job No. 8412 Division No. Notes Red Plotted Profile No.
Survey of BEACH EROSION Date Date X-Sec.
Survey by KLEINECK Notes HHR 12-13-48 Notes Chkd Checked
Indexed C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
368+83 98	N-33	1	R	12 38	158	50	Range Line	378+87 46 (N)
		2	Y		156	40	Going Out	
		3	B		156	30		
		4	Y		154	25		
		5	B		152	00		
		6	R	12 46	149	25		
		7	Y		144	55		
		8	B		140	40		
		9	Y		134	20		
		10	B		128	45		
		11	R	12 55	123	55		
		12	Y		120	40		
		13	B		117	25		
		14	Y		113	20		
		15	B		111	40		
		16	R					
		17	Y					
		18	B					
		19	Y					
		20	B					

100' Out on Range Line

Cut-in 378+87.46 (N)

Profile Notes Red ____ Plotted ____ Job No. 5412 Division No. ____ F.B. 1503 Pg. 87
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-13-48
No. ____ Date ____ Date ____ Map No. ____ Indexed X. C. Johnson Date ____

FORM 309 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At 368+ 83 98	Sight On N-33	#	Color	Time	Hor. Ang.	Remarks	
		1	R	1 16	161 35	Range Line 381+38 65 (N)	
		2	Y		159 55	Going Out	
		3	B		159 25		
	"	4	Y		158 30		
		5	B		157 00		
	"	6	R	1 20	154 30		
		7	Y		152 20		
	"	8	B		148 10		
	"	9	Y		142 45		
		10	B		139 30		
	"	11	R	1 28	135 40		
		12	Y		130 30		
	"	13	B		126 15		
		14	Y		123 15		
		15	B		120 40		
		16	R	1 41	117 45		
		17	Y				
		18	B				
		19	Y				
		20	B				

Cut-in 381+38.65 (N) 100' Out on Range Line

F.B. 1503 PG. 88

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

Survey of Beach Erosion Date Date X-Sec.

Survey by Klieneck Notes J.W.S.M. 12-13-48 Notes Chkd. Checked No.

Indexed A. C. Johnson Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ft. Time	Adj. Depth	Remarks
1	R	~~12:40~~	99 77	84 ✓	13	7.1	
2	Y	11:40	100 89	93 ✓	13	8.0	Range line 378+87.46 (N)
3	B		109 94	99 ✓	13	8.6	
4	Y		124 110	115 ✓	13	10.2	
5	B		140 130	133 ✓	13	12.0	
6	R	~~12:45~~	169 150	156 ✓	13	14.3	
7	Y	11:45	187 170	176 ✓	12	16.4	
8	B		199 183	188 ✓	12	17.6	
9	Y		202 198	199 ✓	12	18.7	
10	B		212 208	206 ✓	11	19.5	
11	R	~~12:58~~	227 219	222 ✓	10	21.2	
12	Y	11:58	240 229	233 ✓	10	22.3	
13	B		245 237	240 ✓	10	23.0	
14	Y		260 251	254 ✓	10	24.4	
15	B	~~1:05~~	276 262	267 ✓	09	25.8	
16	R	12:05					
17	Y						
18	B						
19	Y						

Profile No. X-Sec. No.
Notes Red 77 X Plotted Date 1-5-49
Notes Chkd. Date
Job No. 8412 Division No.
Survey of Beach erosion
Survey by Klarnick Notes S. H. Date 12/13/48
Map No. Indexed C Johnson Date
F.B. 1503 PG. 89

Bod 7.
378+87.46 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~1:17~~	88 76	80 ✓	06	7.4	
2	Y	12:19	108 92	90 ✓	06	9.1	Rangeline 381+38.65 (N)
3	B		115 99	104 ✓	06	9.8	
4	Y		132 110	117 ✓	06	11.1	
5	B		137 129	132 ✓	06	12.6	
6	R	~~1:23~~	153 142	146 ✓	06	14.0	
7	Y	12:23	170 158	162 ✓	06	15.6	
8	B		184 171	175 ✓	06	16.9	
9	Y		192 181	185 ✓	06	17.9	
10	B		200 192	195 ✓	06	18.9	
11	R	~~1:30~~	210 200	203 ✓	05	19.8	
12	Y	12:30	221 213	216 ✓	05	21.1	
13	B		242 220	227 ✓	05	22.2	
14	Y		242 234	237 ✓	05	23.2	
15	B		251 235	246 ✓	05	23.5	
16	R	~~1:45~~	265 252	256 ✓	04	25.2	
17	Y	12:45					
18	B						
19							

Boat 381+38.65

F.B. 1503 PG. 90 Job No. 8412 Division No. Notes Red M.E.X. Plotted No. Profile
Survey of Beach Erosion Date 1-5-49 Date No. X-Sec.
Survey by Hlaneck Notes S.H. 12/13-48 Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
383 "N-34"	1	R	8:18	83° 00'	Range Line ∡ = 83° 02' 07"	
+	2	Y		83° 05'		FROM SOUTH
90 51	3	B		83° 25'		
(N)	4	Y		83° 00'		
	5	B		83° 15'		
	6	R	8:30	83° 30'		
	7	Y		83° 20'		
=	8	B		83° 20'		
	9	Y		83° 20'		
=	10	B		82° 35'		
	11	R	8:39	83° 10'		
	12	Y		83° 25'		
=	13	B		82° 30'		
	14	Y		83° 05'		
	15	B		83° 25'		
	16	R	8:45	83° 10'		
"	17	Y		83° 00'		
	18	B		83° 10'		
	19	Y		82° 05'		
=	20	B		82° 30'		
	21	R	8:50	83° 10'		

100' out on range line

Range 383 + 90.51 (N)

Profile No. ___ Notes Red ___ Plotted ___ Job No. 8412 Division No. ___ F.B. 1163 Pg. 91
X-Sec. No. ___ Date ___ Date ___ Survey of BEACH EROSION
Notes Chkd. ___ Checked ___ Survey by KLEINECK Notes HHR Date 12-14-48
No. ___ Date ___ Date ___ Map No. ___ Indexed C. Johnson Date ___

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	
386	N-35	1	R	9:00	87° 00'	RANGE LINE ∡ =	86° 59' 15"
+		2	Y		86° 55'		FROM SOUTH
41 46		3	B		86° 05'		
(N)		4	Y		86° 55'		
		5	B		86° 35'		
		6	R	9:05	86° 35'		
	"	7	Y		87° 00'		
		8	B		86° 30'		
		9	Y		86° 45'		
	"	10	B		86° 50'		
		11	R	9:10	86° 55'		
		12	Y		86° 45'		
	"	13	B		87° 25'		
		14	Y		86° 40'		
		15	B		87° 10'		
		16	R	9:20	87° 00'		
		17	Y		86° 40'		
	"	18	B		86° 55'		
		19	Y		86° 40'		

Range 386 + 41.46 (N) 100' Out on range line

F.B. 1563 PG. 92 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of BEACH EROSION Date Date No.
Survey by KLEINECK Notes HHR 12-14-48 Notes Chkd Checked X-Sec.
Indexed C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION	B. S.	H. I.	F. S.	ELEV.				
Inst. At	Sight On	#	Color	Time	Hor. Ang. °	'		Remarks
376+36.59	N-33	1	R	8 17	105	25		Range Line 383+90.51
		2	Y		107	40		Coming In
		3	B		110	35		
		4	Y		113	00		
		5	B		115	40		
	"	6	R	8 30	118	50		
		7	Y		122	40		
		8	B		126	00		
	"	9	Y		129	30		
	"	10	B		130	50		
	"	11	R	8 39	135	05		
	"	12	Y		136	55		
	"	13	B		139	05		
	"	14	Y		141	45		
	"	15	B		144	20		
		16	R	8 45	146	35		
		17	Y		145	05	ok	
		18	B		147	10		
		19	Y		150	00		
		20	B		152	00		
		21	R	8 50	157	45		

Out on range Line 40'

Cut-in 383+90.51 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 603 Pg. 93
No. ____ Date ____ Date ____ Survey of Beach Division
X-Sec. Notes Chkd ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-14-48
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst Sight At At Cmn		C Color	Time	Hor. Ang.	Remarks	
376+ N-33	1	R	8 59	161 50	Range Line 386+41 46 (N)	
36 59	2	Y		162 05	ok Going Out	
	3	B		160 15		
	4	Y		158 40		
	5	B		156 20		
"	6	R	9 05	154 30		
	7	Y		152 35		
"	8	B		150 50		
"	9	Y		148 25		
"	10	B		14[illegible] 35		
"	11	R	9 10	146 05		
"	12	Y		14[illegible] 5		
"	13	B	—	138 10		
"	14	Y		130 [illegible]0		
	15	B		126 50		
	16	R	9 20	122 45		
	17	Y		11[illegible] 0		
	18	B		114 50		
	19	Y		113 0		

Cut on 386+41.46 (N)
Out on range line 40'

F.B. 1503 G. 94
Job No. 8412 Division No. Notes Red Plotted No. Profile
Survey of Beach Erosion Date Date X-Sec.
Survey by Klieneck Notes J.W.S.M. 12-14-48 Notes Chkd Checked No.
Indexed A. C. Johnson Date Date Date

FORM 307 10M 10-46

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LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 2412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Survey by Kleinpeter Notes E.T.M. Inked Johnson Date 12-14-48
Date ____ Date ____ Map No. ____ Date ____

F.B. 1163 Pg. 95

STATION #	Color	B. S. Time	H. I. Mean Depth	F. S. Bottom Elev.	ELEV. Adj. Depth	Remarks
1	R	~~8:18~~	31.4 30.6	31.9✓	65	25.4 Range Line 383+90.5✓ (N)
2	Y	7:18	32.5 30.5	31.1✓	65	24.6
3	B		31.3 28.3	29.3✓	65	22.8
4	Y		29.8 27.2	28.1✓	65	21.6
5	B		28.3 26.2	26.9✓	65	20.4
6	R	~~8:30~~	28.3 25.0	26.1✓	64	19.7
7	Y	7:30	26.3 25.0	25.4✓	64	19.0
8	B		26.0 24.0	24.7✓	64	18.3
9	Y		25.3 22.9	23.7✓	64	17.3
10	B		24.0 22.8	23.2✓	64	16.8
11	R	~~8:40~~	24.0 21.2	22.1✓	63	15.8
12	Y	7:40	22.3 20.5	21.1✓	63	14.8
13	B		22.3 18.7	19.9✓	63	13.6
14	Y		19.6 17.6	18.3✓	63	12.0
15	B		17.7 15.5	16.2✓	63	9.9
16	R	~~8:45~~	15.8 13.0	13.7✓	63	7.4
17	Y	7:45	17.5 14.3	15.4✓	63	9.1 Pickup Shot
18	B		14.6 12.1	12.9✓	63	6.6
19	Y		13.0 10.8	11.5✓	63	5.2
20	B	7:50	12.5 9.6	10.6✓	62	4.4
21	R	~~8:00~~	8.3 6.0	6.8✓	62	0.6

383+90.5✓ (N)

Draft

FORM 307 10M 10-46

PLEASE RETURN TO
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700 HALL OF RECORDS

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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	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:00~~	8.0 6.5	7.0 ✓	61	0.9	Range Line 386+41.46 (N)
2	Y	8:00	8.5 6.8	7.4 ✓	61	1.3	
3	B		10.0 7.5	8.3 ✓	61	2.2	
4	Y		11.8 8.7	9.7 ✓	61	3.6	
5	B		11.5 10.2	10.6 ✓	61	4.5	
6	R	~~9:05~~	13.5 11.8	12.4 ✓	60	6.4	
7	Y	8:05	16.0 13.7	14.5 ✓	60	8.5	
8	B		18.6 15.1	16.1 ✓	60	10.1	
9	Y		19.3 17.5	18.1 ✓	60	12.1	
10	B		22.7 18.5	19.9 ✓	60	13.9	
11	R	~~9:10~~	21.4 19.8	20.3 ✓	60	14.3	
12	Y	8:10	23.0 21.0	21.7 ✓	60	15.7	
13	B		24.0 22.8	23.2 ✓	60	17.2	
14	Y		26.7 24.4	25.2 ✓	60	19.2	
15	B		27.3 25.0	25.8 ✓	60	19.8	
16	R	~~9:20~~	27.5 26.5	26.8 ✓	59	20.9	
17	Y	8:20	29.3 27.8	28.3 ✓	59	22.4	
18	B		32.0 28.0	29.5 ✓	59	23.4	
19	Y		31.0 29.5	30.0 ✓	59	24.1	

Boat 386+41.46 (N)

F.B. 1503 PG. 96

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

Survey of Beach Erosion Date 1-5-49 Date ____ No. ____

Survey by Kleineck Notes E. T. M. Jr. 12-14-48 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Johnson Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
388 "N-35"	1	R	9:42	87° 00'		
+	2	Y		86° 20'	RANGE LINE ∡ = 86° 59' 15"	
91.80	3	B		86° 30'		FROM SOUTH
(N)	4	Y		86° 35'		
	5	B		86° 10'		
	6	R	9:52	85° 50'		
	7	Y		86° 35'		
"	8	B		86° 10'		
	9	Y		86° 15'		
	10	B		87° 10'		
"	11	R	9:58	87° 45'		
	12	Y		87° 00'		
	13	B		87° 40'		
"	14	Y		85° 55'		
	15	B		87° 05'		
"	16	R	10:02	87° 05'		
"						
"						

100' out on range line

Range
388 + 91.80 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4563 Pg. 97
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes H.H.R. Date 12-14-48
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
391	"N-35"	1	R	8:30	86° 20'	RANGE LINE ∡=	86°59' 15"
+		2	Y		86° 00'		FROM SOUTH
42 15		3	B		86° 40'		
(N)		4	Y		86° 25'		
		5	B		86° 35'		
	"	6	R	8:34	86° 40'		
		7	Y		86° 10'		
	"	8	B		85° 45'		
		9	Y		86° 35'		
		10	B		86° 50'		
		11	R	8:38	86° 55'		
	"	12	Y		86° 40'		
		13	B		87° 00'		
		14	Y		87° 15'		
	"	15	B		87° 10'		
		16	R	8:44	87° 15'		
		17	Y		87° 00'		
		18	B		87° 00'		
	"	19	Y		86° 45'	21 - R - 8:50 -	87° 30'
		20	B		87° 20'		

Range 391 + 42 15 (N) 100' out on range line

F.B. 1503 PG. 98 Job No. 8412 Division No. Notes Red Plotted Date No. Profile
Survey of BEACH EROSION Date Notes Chkd. Checked Date No. X-Sec.
Survey by KLEINECK Notes HHR 12-15-48 Date
Indexed by C. Johnson Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
376+36.59	N-33	1	R	9 42	118	15	Range Line 388+91.80 (N)	
		2	Y		121	55	Coming In	
		3	B		125	50		
		4	Y		131	50		
		5	B		137	15		
		6	R	9 52	142	50		
		7	Y		148	05		
		8	B		151	30		
		9	Y		154	20		
		10	B		155	50		
		11	R	9 57	156	45		
		12	Y		158	20		
		13	B		159	20		
		14	Y		161	10		
		15	B		162	35		
		16	R	10 01	165	30		
		17	Y					
		18	B					
		19	Y					
		20	B					

Outer range line 40'

Cut-in 388+91.80 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 99

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-14-48

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

F.B. 1503 PG. 100 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Klieneck | Notes J.W.S.M. 12-15-48 | Notes Chkd. | Checked | X-Sec.

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

Cut-in
391+42.15 (N)
Out on range line 100'

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
383+ N-34	1	R	8 29	157 00		Range Line 391+42.15 (N)
+90.51	2	Y		155 50		Going Out
	3	B		154 10		
	4	Y		153 10		
	5	B		152 00		
	6	R	8 33	149 30		
	7	Y		150 30	ok	
	8	B		148 05		
	9	Y		146 05		
	10	B		143 40		
	11	R	8 36	143 10		
	12	Y		139 40		
	13	B		137 20		
	14	Y		135 15		
	15	B		131 10		
	16	R	8 44	125 35		
	17	Y		121 05		
	18	B		112 15		
	19	Y		108 35		
	20	B		106 20		
	21	R	8 55	104 40		

FORM 303 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			32.7				
1	R	~~9:42~~	29.8	30.6	56	25.0	Range Line 388+91.80 (N)
2	Y	8:42	29.8	28.7	56	23.1	
			28.2				
3	B		28.5	27.2	56	21.6	
			26.5				
4	Y		26.3	25.2	55	19.7	
			24.6				
5	B		25.5	23.6	55	18.1	
			22.6				
6	R	~~9:53~~	24.0	22.6	54	17.2	
			21.9				
7	Y	8:53	22.4	21.3	54	15.9	
			20.5				
8	B		20.5	19.4	54	14.0	
			18.8				
9	Y		19.8	16.9	54	11.5	
			16.4				
10	B		17.8	15.9	54	10.5	
			14.9				
11	R	~~9:58~~	15.5	14.3	53	9.0	
			13.7				
12	Y	8:58	15.5	13.6	53	8.3	
			12.6				
13	B		15.0	12.5	53	7.2	
			11.2				
14	Y		12.9	10.8	53	5.5	
			9.7				
15	B		11.8	9.3	53	4.0	
			8.0				
16	R	~~10:01~~	9.0	8.0	53	2.7	
			7.5				
17	Y	9:01					
18	B						

Boat
388+91.80 (N)

Profile No. ____ Notes Red Plotted ____ Job No. 8412 Division No. ____
Date 1-5-49 Date ____ Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Fleisbach Notes Field Date 12-14-48
Date ____ Date ____ Map No. ____ Inked ____ Date ____

F. B. 1003 Pg. 101

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. X-Sec. No.

Plotted M.T. Date 1-5-49 Checked Date

Notes Red. Date 1-5-49 Notes Chkd Date

Division No. 24/7 Job No. 24/7 Notes Erased EVM Jr. 12-15-48

Survey of Rosa Erased Notes

Survey by Alencik Indexed C. Johnson Date

F.B. 1603 PG. 102

STATION #	Color	B.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~8:29~~	11.3 / 6.8	8.3	66	1.7	Range Line 391+42.15 (N).
2	Y	7:29	10.0 / 7.4	8.3	66	1.7	
3	B		10.7 / 8.0	8.9	66	2.3	
4	Y		10.7 / 9.0	9.6	66	3.0	
5	B		12.8 / 10.4	11.2	66	4.6	
6	R	~~8:33~~	16.2 / 12.7	13.9	66	7.3	
7	Y	7:33	13.6 / 10.8	11.7	66	5.1	Pick up Shot
8	B		14.5 / 12.0	12.8	66	6.2	
9	Y		16.7 / 13.3	14.4	66	7.8	
10	B		17.5 / 14.4	15.4	66	8.8	
11	R	~~8:38~~	18.4 / 15.9	16.7	66	10.1	
12	Y	7:38	19.1 / 17.0	17.7	66	11.1	
13	B		20.8 / 19.0	19.6	66	13.0	
14	Y		23.0 / 20.4	21.3	66	14.7	
15	B		22.8 / 21.8	21.1	66	14.5	
16	R	~~8:44~~	25.0 / 23.2	23.8	66	17.2	
17	Y	7:44	26.9 / 24.8	25.5	66	18.9	
18	B		27.8 / 26.7	27.5	66	20.9	
19	Y		31.0 / 27.9	28.9 / ~~28.6~~	66	22.3	Boat 391+42.15 (N)
20	B	7:55	33.0 / 28.3	30.7	66	24.1	
21	R	~~8:55~~	32.7 / 30.3	31.2	66	24.6	

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
393"	N-35"	1	R	9:06	87° 40'	RANGE LINE ∡ = 86° 59' 15" FROM SOUTH
+		2	Y		87° 00'	
92.50		3	B		87° 00'	
(N)		4	Y		86° 55'	
		5	B		86° 50'	
		6	R	9:16	87° 00'	
	=	7	Y		87° 15'	
		8	B		87° 15'	
		9	Y		87° 15'	
	=	10	B		86° 55'	
		11	R	9:25	87° 35'	
		12	Y		86° 25'	
	=	13	B		87° 05'	
		14	Y		87° 40'	
	"	15	B		88° 20'	
		16	R	9:30	87° 30'	
		17	Y		88° 10'	
		18	B		88° 15'	
	=	19	Y		87° 55'	

100' out on range Line

Range
393 + 92.50 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION
No. ____ Date ____ Map No. ____ Indexed ____ Date ____ Survey by KLEINECK Notes HHR Date 12-15-48
Jensen

F.B. 1163 Pg. 103

FORM 30[illegible] 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
396	N-35	1	R	9:43	87°55'	RANGE LINE ∡ = 86° 59'15'	
+		2	Y		87°15'		FROM SOUTH.
42.85		3	B		87°20'		
(N)		4	Y		87°40'		
		5	B		87°25'		
		6	R	9:47	87°25'		
		7	Y		87°15'		
	=	8	B		86°30'		
		9	Y		87°40'		
	=	10	B		87°15'		
		11	R	9:51	87°15'		
		12	Y		87°10'		
	=	13	B		87°05'		
		14	Y		87°10'		
	"	15	B		86°40'		
		16	R	9:56	87°20'		
		17	Y		86°35'		
	=	18	B		87°15'		
		19	Y		87°00'		
	—	20	B		87°40'		

Range 396 + 42.85 (N) 200' out on range line

F.B. 1503 PG. 104 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION Date Date X-Sec.
Survey by KLEINECK Notes HHR 12-15-48 Notes Chkd. Checked No.
Indexed A. C. Jordan Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
383+90 51	N-34	1	R	9 04	109	40	Range Line	393+92 50 (N)
		2	Y		110	45	Coming In	
		3	B		112	25		
		4	Y		114	40		
		5	B		116	50		
	"	6	R	9 15	120	50		
	"	7	Y		126	05		
	"	8	B		132	10		
	"	9	Y		136	00		
	"	10	B		140	45		
	"	11	R	9 24	145	20		
	"	12	Y		148	10		
	"	13	B		148	45		
	"	14	Y		151	55		
	"	15	B		154	30		
	"	16	R	9 29	154	50		
		17	Y		156	50		
		18	B		159	20		
		19	Y		161	20		
		20	B					

Out on range line 100'

Cut in 393+92.50 (N)

Profile Notes Red ____ Plotted ____ Job No. 5112 Division No. ____ F.B. 1503 Pg. 105
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-15-48
No. ____ Date ____ Date ____ Map No. ____ Andrew Jabrusa Date ____

FORM 301 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	#1	Color	Time	Hor. Ang.	Remarks	
383+	N-34		R	9 42	163 35		
90 51		2	Y		161 00	Range Line 396+42 85 (N)	
		3	B		160 25	Going out	
		4	Y		158 40		
		5	B		157 20		
	"	6	R	9 46	156 50		
	"	7	Y		155 25		
	"	8	B		153 05		
	"	9	Y		152 10		
	"	10	B		150 20		
	"	11	R	9 50	149 10		
	"	12	Y		146 50		
	"	13	B		143 45		
	"	14	Y		139 00		
	"	15	B		134 45		
		16	R	9 56	129 45		
		17	Y		124 40		
		18	B		121 30		
		19	Y		117 25		
		20	B		115 05		

Cut-in 396+42.85 (N)
Out on range line 100'

F.B. 1503 PG. 106
Job No. 8412 Division No. Notes Red Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Klianeck Notes I.W.S.M. 12-15-48 Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date 1-5-49 Plotted ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Job No. 3412 Division No. ____ Survey of Beach Erosion Survey by Ellipsoid Notes E.M.S. Date 12-15-48 Map No. ____ Amended Job ____ Date ____

F.B. 1103 Pg. 107

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~9:05~~	33.7 32.0	32.6 ✓	65	26.1	Range Line 393+92.5 (N)
2	Y	8:05	32.7 29.9	30.8 ✓	65	24.3	First shot opposite end of
3	B		32.1 29.2	30.2 ✓	65	23.7	Breakwater
4	Y		29.7 28.0	28.6 ✓	65	22.1	
5	B		29.2 27.2	27.9 ✓	65	21.4	
6	R	~~9:15~~	29.0 26.0	27.0 ✓	64	20.6	
7	Y	8:15	27.7 24.7	25.7 ✓	64	19.3	
8	B		25.4 22.7	23.6 ✓	64	17.2	
9	Y		25.0 21.7	22.8 ✓	64	16.4	
10	B		22.8 20.8	21.5 ✓	64	15.1	
11	R	~~9:24~~	20.2 18.5	19.1 ✓	64	12.7	
12	Y	8:24	19.0 16.5	17.0 ✓	64	10.6	
13	B		17.2 15.0	15.7 ✓	64	9.3	
14	Y		15.2 14.0	14.4 ✓	64	8.0	
15	B		14.0 12.3	12.9 ✓	64	6.5	
16	R	~~9:29~~	13.9 10.7	11.7 ✓	64	5.3	
17	Y	8:29	12.0 9.0	10.0 ✓	64	3.6	
18	B		10.0 7.7	8.5 ✓	64	2.1	
19	Y	~~9:31~~	8.8 6.8	7.5 ✓	64	1.1	
		8:31					

393+92.50 (N) Boat

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:42~~	8.0 5.2	6.1 ✓	62	-0.1	Range Line 396+42.85(N)
2	Y	8:42	8.5 6.5	7.2 ✓	62	1.0	
3	B		8.7 7.3	7.8 ✓	62	1.6	
4	Y		10.1 8.3	8.9 ✓	62	2.7	
5	B		11.7 9.7	10.4 ✓	62	4.2	
6	R	~~9:46~~	13.0 10.2	11.1 ✓	62	4.9	
7	Y	8:46	13.4 11.6	12.2 ✓	62	6.0	
8	B		18.1 13.2	14.8 ~~14.5~~ ✓	62	8.6	
9	Y		17.1 15.0	15.7 ✓	62	9.5	
10	B		18.6 16.6	17.3 ~~17.1~~ ✓	62	11.1	
11	R	~~9:51~~	19.7 17.5	18.2 ✓	61	12.1	
12	Y	8:51	21.5 19.9	20.4 ~~20.1~~	61	14.3	
13	B		21.8 20.8	21.1 ✓	61	15.0	
14	Y		24.1 21.8	22.6 ✓	61	16.5	
15	B		25.0 23.5	24.0 ✓	61	17.9	
16	R	~~9:58~~	29.1 25.2	25.8 ✓	60	19.8	
17	Y	8:56	29.0 26.5	27.3 ✓	60	21.3	
18	B		30.5 28.0	~~28.8~~ ✓	60	22.8	
19	Y		31.2 29.5	30.1 ✓	60	24.1	
20	B		33.1 30.7	31.5 ✓	60	25.5	Opposite End of Breach

Boat 396+42.85(N)

F.B. 1503 PG. 108

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

Survey of Beach Erosion Date 1-5-49 Date X-Sec.

Survey by Klieneck Notes EJM Jr. 12-15-48 Notes Chkd. Checked No.

Indexed C. Jordan Date Date Date

FORM 307 10M 10-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
398 + 93.19 (N)	N-35	1	R	10:18	87°55'	RANGE LINE ∡ = 86°59'15" FROM SOUTH
		2	Y		87°45'	
		3	B		87°05'	
		4	Y		87°00'	
		5	B		87°00'	
		6	R	10:28	87°30'	
		7	Y		87°05'	
		8	B		87°00'	
	"	9	Y		86°45'	
		10	B		88°00'	
	"	11	R	10:36	87°00'	
		12	Y		87°15'	
		13	B		87°10'	
	"	14	Y		87°05'	
		15	B		87°50'	
		16	R	10:42	87°50'	
		17	Y		86°35'	
	"	18	B		88°20'	
		19	Y		88°10'	

200' out on range line

Range 398 + 93.19 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 a. 109

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

Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes H.H.R. Date 12-15-48

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

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Job No. Division No. Notes Date

Survey of Notes

Survey by Date

Indexed

F.B. 150 PG. 110

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. Eight At	On	#	Color	Time	Hor. Ang.			[redacted]
383+90 51	N-34	1	R	10 16	120	00	Range Line	398+93 19 (N)
		2	Y		121	55	Coming In	
		3	B		125	35		
	"	4	Y		128	25		
		5	B		132	25		
	"	6	R	10 26	135	10		
		7	Y		138	15		
	"	8	B		139	50		
	"	9	Y		142	05		
		10	B		144	35		
	"	11	R	10 35	147	15		
		12	Y		149	35		
		13	B		152	10		
	"	14	Y		154	20		
		15	B		156	00		
		16	R	10 41	157	00		
		17	Y		158	50		
		18	B		159	55		
		19	Y		161	45		
		20	B					

Out on range line 100'

Out-in
398+93.19(N)

Profile
No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion
No. ____ Notes Chkd ____ Checked ____ Survey by Klienack Notes J.W.S.M. Date 12-15-48
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1605 Pg. 111

FORM 30[illegible] 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	

F.B. 1503 PG. 112

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. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10:17~~	34.0 31.5	32.3 ✓	57	26.6	Range Line 398+93 19 (N)
2	Y	9:17	32.8 30.8	31.5 ✓	57	25.8	First Shot opposite end of
3	B		31.0 28.4	29.3 ✓	56	23.7	Breakwater
4	Y		29.8 27.0	27.9 ✓	56	22.3	
5	B		27.0 25.3	25.9 ✓	55	20.4	
6	R	~~10:27~~	25.2 23.2	23.9 ✓	54	18.5	
7	Y	9:27	23.0 21.2	21.8 ✓	54	16.4	
8	B		21.5 19.8	20.4 ✓	54	15.0	
9	Y		21.0 18.7	19.5 ✓	53	14.2	
10	B		19.1 17.6	18.1 ✓	53	12.8	
11	R	~~10:35~~	17.8 16.0	16.6 ✓	52	11.4	
12	Y	9:35	17.0 15.2	15.8 ✓	52	10.6	
13	B		16.1 13.9	14.6 ✓	52	9.4	
14	Y		13.5 11.9	12.4 ✓	52	7.2	
15	B		12.3 10.3	11.0 ✓	52	5.8	
16	R	~~10:42~~	10.3 8.3	9.0 ✓	51	3.9	
17	Y	9:42	8.4 7.0	7.5 ✓	51	2.4	
18	B		7.0 5.5	6.0 ✓	51	0.9	
19	Y	~~10:41~~ 9:44	5.5 3.9	~~4.3~~ 4.4 ✓	50	-0.6	

Boat
398+93 19 (N)

Profile No. ____ Notes Red M.S. Plotted ____ Job No. 8412 Division No. ____ F.B. 1103 Pg. 113
X-Sec. No. ____ Date 1-5-49 Date ____ Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Kliegeck Notes ETM Jr. Date 12-15-48
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R					Range Line
2	Y					
3	B					
4	Y					
5	B					
6	R					
7	Y					
8	B					
9	Y					
10	B					
11	R					
12	Y					
13	B					
14	Y					
15	B					
16	R					
17	Y					
18	B					

F.B. 1503 PG. 114

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

Survey of Beach Erosion Date Date No.

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

Indexed Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION	B. S.	~~H.I.~~ Elev. = 5.0	F. S. (−)	ELEV. Datum	
Pier Sta #1		24.9	14.9	+10.0	Average Wave Ht. 0.5
2		24.5	13.5	+11.0	
3		24.7	13.3	+11.4	
4		24.6	13.3	+11.3	
5		24.5	15.6	+8.9	
6		24.6	15.3	+9.3	
7		24.4	15.6	+8.8	
8		24.4	14.6	+9.8	
9		24.4	14.0	+10.4	
10		24.2	15.5	+8.7	
11		24.2	19.8	+4.4	
12		24.4	21.7	+2.7	
13		24.6	22.4	+2.2	
14		24.4	22.9	+1.5	
15		24.5	22.9	+1.6	
16		24.8	25.0	−0.2	
17		25.2	27.0	−1.8	
18		25.6	29.0	−3.4	
19		26.8	31.7	−4.9	
20		25.5	31.2	−5.7	
21		25.3	31.1	−5.8	

Range Line
Soundings taken along line of range stakes. Marine Office
Tons per sounding. Ref. to Tons
Tot. a Point on the
Beach. Tot. Range Line
40+10 (R)
See Pier Sounding F.B. 1216-19.

Cont'd on next pg.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
Date ____ Date ____ Survey of Beach Erosion S.M. Pier Soundings
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Klieneck Notes MCB Date 12/10/48
Date ____ Date ____ Map No. ____ Interior Jobs Date ____

F.B. 1603 Pg. 115

F.B. 1503 PG. 116

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

Survey of Beach Erosion S.M. Pier Soundings Date _____ Date _____ No. _____

Survey by Klieneck Notes McB 12/10/48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

Range Line
401+10 (N) Cont'd

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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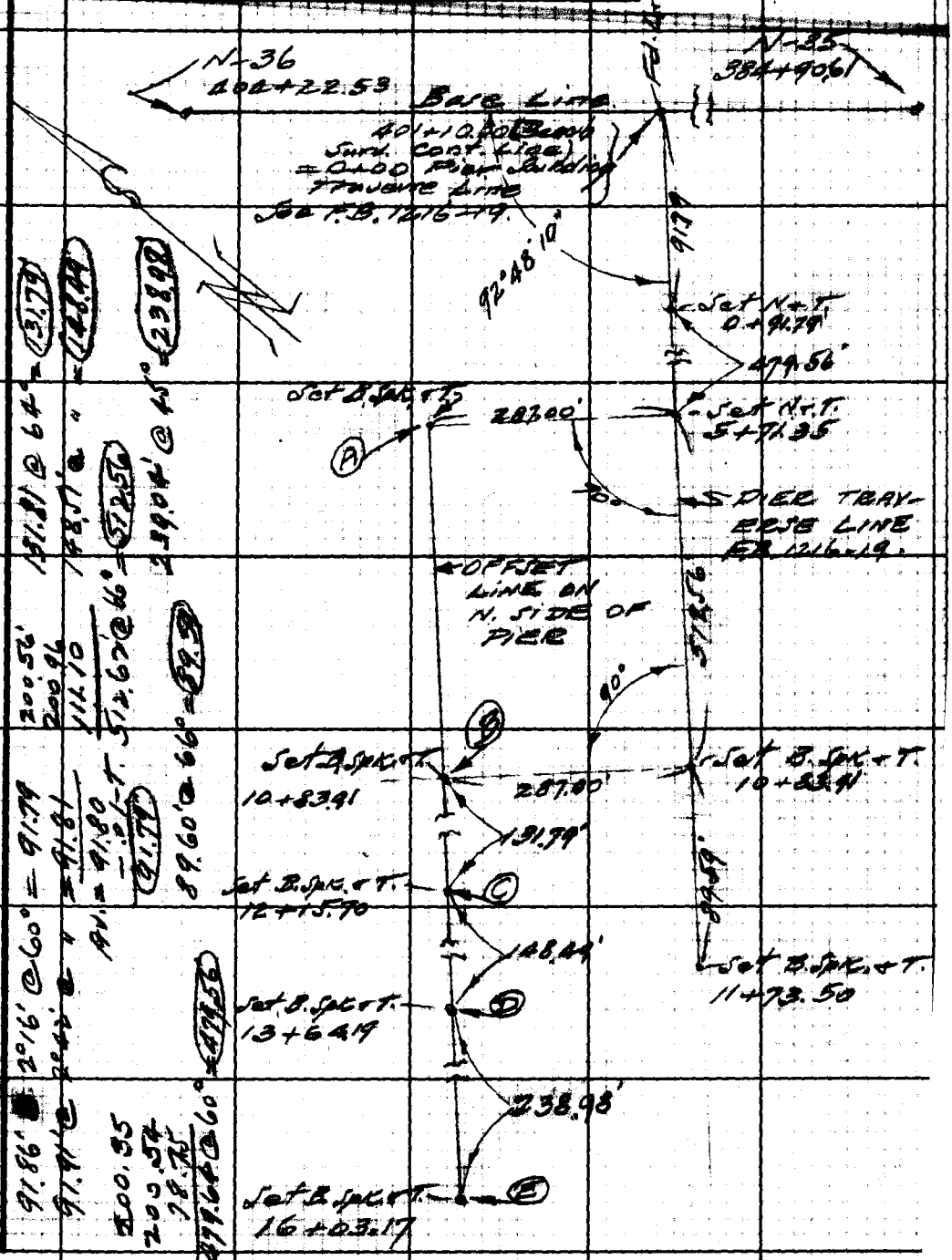
Do not extend notes this side of this line.

STATION	B. S.	Elev. Sta.	F. S.	ELEV. Bottom
Pier Sta# 22		25.3	31.5	-62
23		28.0	34.1	-61
24		25.3	31.8	-65
25		25.3	33.0	-77
26		25.1	33.1	-80

Cont'd from preceding pg.

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. 8612 Tape No. 10 St'd 84°F
Office Work	Surveyed by Kleineck
Checked	Notes G.W.K. Date 7/8/48
Date	Indexed A. C. Johnson

F.B. 1503 Pg. 117



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
700 HALL OF RECORDS

FORM 247 5M 11-46

F. B. 1503 PG. 118

RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
Sta. 11+73.50 on traverse line for pier soundings	0	1	R	10:48	180°00'	On production of pier soundings traverse line - So. side of Santa Monica Pier = Sta. 401+10.00 on Beach Survey Control Base Line.
	+	2	Y		178°50'	
	00	3	B		180°30'	
		4	Y		178°40'	
		5	B		179°40'	
		6	R	10:52	181°00'	For sketch see pg. 117.
		7	Y		180°05'	Range Line ∡ from So. = 87° 11' 50" at Base Line Sta. 401+10.00(N).
		8	B		181°00'	
		9	Y		180°00'	
		10	B		180°00'	Note: For profile along S. side of pier out to Sta. 11+73.50 see pg. 115.
		11	R	11:06	178°30'	
		12	Y		180°10'	
		13	B		180°50'	
		14	Y		179°15'	
		15	B		180°30'	
		16	R	11:18	180°05'	
		17	Y		175°00'	

0+00 → (For traverse line)

See sketch on pg. 117.

Range 401+10.00 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1563 Pg. 119

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

Notes Chkd. ____ Checked ____ Survey by KLEINFELK Notes H H R Date 12-14-48

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

FORM 307 10M 10-46

1635

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.	OUT FROM INST.	Remarks
404	404	1	R	11:27	180° 00'	35'	ESTIMATED - At W. end of pier.
+	+	2	Y		180° 00'	60'	"
10 94	10 94	3	B		180° 00'	90'	"
(N)	(N)	4	Y		180° 30'		
		5	B		182° 00'		
		6	R	11:32	180° 30'	RANGE LINE ∡ = 86° 59' 15" FROM SOUTH.	
		7	Y		181° 30'		
		8	B		180° 20'		
		9	Y		179° 35'		
		10	B		180° 00'		
		11	R	11:37	178° 55'		
		12	Y		179° 45'		
		13	B		181° 00'		
		1	R	1 37	179 45	Cont'd outside of breakwater	
		2	Y		179 55	On range line 12-16-48	
		3	B		180 45	7 - Y - 156-50 } Off So. end of	
		4	Y		179 25	8 - B - 154-25 } brk water.	
		5	B		179 55		
		6	R	1 43	180 55		

OUT 1617 ON RANGE LINE

ON BASE LINE

Range 404 + 10.94 (N)

DATE: 12-15-48

INSIDE BREAKWATER

F.B. 1603 G. 120 Job No. 8412 Division No. Notes Red Plotted Profile

Survey of BEACH EROSION Date Date No.

Survey by KLEINECK Notes HHR 12-15-48 Notes Chkd Checked X-Sec.

Indexed G. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
"C"	"A"	1	R	10 46	82	20	Range Line	401+10 (N)
		2	Y		91	20		
		3	B		100	40		
		4	Y		110	50		
See pg. 117	"	5	B		114	10		
	"	6	R	10 55	121	40		
		7	Y		128	00		
	"	8	B		134	30		
		9	Y		138	20		
		10	B		142	50		
		11	R	11 05	144	30		
		12	Y		147	40		
		13	B		151	45		
		14	Y		154	50		
		15	B		160	00		
		16	R	11 16	161	50		
		17	Y		159	40	ok	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 842 Division No. ____ F.B. 1503 Pg. 121

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

Notes Chkd. ____ Checked ____ Survey by Klenck Notes JWJM Date 12-14-48

Date ____ Date ____ Map No. ____ Date ____

Cut-in
401+10 (N)

FORM 30[illegible] 10M 10-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
383+	N-34	1	R	11 27		Range Line 404 + 10.94 (N)
90 51		2	Y		136 50	See Range Line Notes
		3	B		136 05	
		4	Y		135 00	
		5	B		134 10	
		6	R	11 31	13[illegible] 45	Inside of break water.
	"	7	(B) Y		13[illegible] 50	
	"	8	B		13[illegible] 05	
	"	9	Y		130 30	
	"	10	B		129 40	
	"	11	R	11 37	12[illegible] 55	
		12	Y		128 35	
	"	13	B		128 50 ok	Profile Cont'd outside of brk water. 12-16-'48
		1	R	1:35	127°20'	
		2	Y		127°15'	
		3	B		126°40'	
		4	Y		126°10'	
		5	B		126°05'	
		6	R	1:41	125°25'	→ 8-B-123°45'
		7	Y		123°55'	← SO END [illegible]

Cat-m 404+10.94 (N) Out on range line 100'

F.B. 1503 PG. 122 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Klieneck Notes S.W.S.M. 12-15-48 Notes Chkd. Checked X-Sec.
Indexed C. Jeppson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Notes Red 7M.A. Plotted ____ Job No. 24 12 Division No. ____
X-Sec. No. ____ Date 1-5-49 Date ____ Survey of Beach Erosion
Notes Chkd ____ Date ____ Checked ____ Date ____ Survey by Kleinpeck Notes by E.T.H. Map No. ____ Andlord Inspector ____ Date ____
F.B. No. 1723 Pg. 12-14-48

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10:48~~	15.0 12.7	13.5 ✓	45	9.0	Range Line 401+10 (N)
2	Y	9:48	16.0 14.2	14.8 ✓	45	10.3	Pier Snd. Line South Side
3	B		17.1 16.1	16.4 ✓	45	11.9	S.M. Pier. 20 [illegible]
4	Y		20.0 18.0	18.7 ✓	44	14.3	of pier [illegible] trace
5	B		20.0 19.0	19.3 ✓	44	14.9	line from West end
6	R	~~10:57~~	21.0 19.5	20.0 ✓	43	15.7	of South Bay Pier
7	Y	9:57	21.5 20.5	20.8 ✓	43	16.5	1st Shot at W. end
8	B		23.4 21.4	22.1 ✓	42	17.9	of pier.
9	Y		24.4 22.5	23.1 ✓	42	18.9	
10	B		25.2 23.4	24.0 ✓	41	19.9	
11	R	~~11:06~~	26.8 29.5	24.9 ✓	40	20.9	
12	Y	10:06	26.5 25.0	25.5 ✓	40	21.5	
13	B		27.8 26.0	26.6 ✓	39	22.7	
14	Y		29.0 27.2	27.8 ✓	38	24.0	
15	B		30.0 28.0	28.7 ✓	37	25.0	
16	R	~~11:18~~	32.0 30.0	30.7 ✓	36	27.1	
17	Y	10:18	32.6 30.0	30.9 ✓	36	27.3	Opposite end of Breakwater
18	B						

Boat 401+10 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red ____ Date ____ Notes Chkd ____ Date ____

Job No. 8412 Division No. ____ Notes ____ Date ____

Survey of Beach & Pier Sta. 12-16-48

Survey by Klabacek Notes ____ Date ____

Indexed C. Spinner

F.B. 1699 p. 124

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~11:27~~	24.0 / 22.9	23.3 ✓	40	19.3	Rangeline 404+10.94 N.
2	Y	10:27	26.0 / 24.9	25.3 ✓	40	21.3	End of S. M. Pier
3	B		26.5 / 25.7	26.0 ✓	40	22.0	
4	Y		27.0 / 26.1	26.4 ✓	40	22.4	
5	B		26.5 / 25.5	25.8 ✓	40	21.8	
6	R	~~11:32~~	27.2 / 26.8	27.1 ✓	39	23.2	
7	Y	10:32	29.0 / 27.8	28.2 ✓	39	24.3	Inside of breakwater
8	B		29.0 / 28.0	28.3 ✓	39	24.4	
9	Y		30.2 / 28.7	29.2 ✓	39	25.3	
10	B		30.5 / 29.0	29.5 ✓	39	25.6	
11	R	~~11:37~~	28.8 / 27.0	27.6 ✓	38	23.8	
12	Y	10:37	27.5 / 26.0	26.5 ✓	38	22.7	
13	B		25.5 / ~~24.2~~	~~24.6~~ ✓	38	20.8	Inside Toe of Breakwater
1	R	~~1:36~~	12.5 / 12.5	14.2 ✓	19	12.3	Contd outside of breakwater.
2	Y	12:36	23.0 / 20.0	21.0 ✓	19	19.1	12-16-'48.
3	B		31.7 / 29.6	30.2 ✓	19	28.3	First sndng at toe of bkwtr.
4	Y		31.7 / 24.6	30.3 ✓	18	28.5	
5	B		32.0 / 30.1	30.7 ✓	18	28.9	
6	R	~~1:42~~	31.7 / 29.7	~~30.4~~ 30.4 ✓	17	28.7	
7	Y	12:42	22.8 / 21.0	21.5 ✓	17	19.8	Opposite South [illegible] of R. [illegible]
8	B		28.2 / 26.9	[illegible] ✓	17	[illegible]	

Boat 404+10.94 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
406	406	1	R	12:10	180° 20'	RANGE LINE ∡ = 88°17'50"
+	+	~~2~~	~~Y~~		~~180° 45'~~ Out.	FROM SOUTH
44 02	44 02	3	B		179° 50'	
(N)	(N)	4	Y		180° 00'	
		5	B		180° 10'	
		6	R	12:15	180° 05'	
		7	Y		180° 25'	
		8	B		180° 40'	
		9	Y		180° 40'	
		10	B		180° 20'	
		11	R	12:25	180° 20'	
		12	Y		178° 45'	
		13	B		179° 30'	
		14	Y		180° 20'	
		15	B		180° 15'	
		16	R	12:32	181° 10'	
		17	Y		179° 45'	
		18	B		179° 30'	
		19	Y		180° 15'	
		20	B		180° 25'	

OUT 700' ON RANGE LINE.

ON BASE LINE.

INSIDE BREAKWATER

Range

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

X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-15-46

Date ____ Date ____ Map No. ____ Indexed Job name Date ____

FORM 301 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Plotted ____ Date ____ Checked ____ Date ____

F.B. 163 Pg. 126 Job No. 8412 Division No. ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____

Survey of BEACH EROSION

Survey by KLEINECK Notes HHR 12-16-48

Indexed C. Jackson Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
406 + 44.02 (N)	406 + 44.02 (N)	1	R	1:14	179°50'	Profile cont'd outside of breakwater	
		2	Y		179 40	RANGE LINE ∠ = 88°17'50" FROM SOUTH	
		3	B		179°25'		
		4	Y		179 25		
		5	B		179 35		
		6	R	1:18	180 15		
406+44.02(N) Cont'd OUT 7.00' ON RANGE LINE.						OUTSIDE BREAKWATER	
	ON BASE LINE.						

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
418+98.57	408 +98.13	1	R	12 08	49 30	Range Line	406+44.02
		2	Y			out.	
		3	B		48 55		
		4	Y		48 45		
	"	5	B		48 40		
		6	R	12 14	48 00		
		7	Y		46 30		
	"	8	B		43 50		
		9	Y		42 30	Inside of breakwater	
	"	10	B		40 05		
	"	11	R	12 25	36 10		
	"	12	Y		31 40		
		13	B		29 00		
	"	14	Y		27 50		
		15	B		26 10		
		16	R	12 31	25 40		
		17	Y		22 50		
		18	B		20 25		
		19	Y		17 50		
		20	B		11 45		

Out 434.13 on Range Line

Cut-in 406+44.02 (N)

Contd on next pg.

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 127
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Klienach Notes J.W.S.M. Date 12-15-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1503 Pg. 128 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Klieneck | Notes J.W.S.M. 12-16-48 | Notes Chkd. | Checked | X-Sec.

Indexed C. Jobrison | Date | Date | Date | No.

Cut-in
406 + 44.02 (N) Contd
See pg. 117

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At On		Color	Time Hor. Ang.		Remarks
"E" "A"	1	R	1 15	199 00	Range Line 406 + 44.02
" " "	2	Y		198 35	
	3	B		197 10	Outside of breakwater
	4	Y		197 05	
	5	B		197 05	
	6	R	1 20	197 00	
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				

FORM BOW 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. _____ Notes Red 7M-3 Plotted _____ Job No. 24-12 Division No. _____
Date 1-5-49 Date _____ Survey of Beach Erosion
X-Sec. _____ Notes Chkd _____ Checked _____ Survey by Hydrographic Notes Date 12-15-48
No. _____ Date _____ Date _____ Map No. _____ Andrew Johnson Date _____

F.B. 1193a, 124

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~12:09~~	18.8 / 17.7	18.1 ✓	29	15.2	Rangeline 406+44° (N)
~~2~~	Y	11:09	20.0 / 19.5	19.7		out	first shot toe of Breakwater
3	B		23.0 / 22.8	22.9 ✓	29	20.0	
4	Y		24.5 / 24.0	24.2 ✓	29	21.3	
5	B		27.8 / 27.2	27.5 ✓	29	24.6	
6	R	~~12:14~~	30.0 / 29.0	29.3 ✓	28	26.5	
7	Y	11:14	29.5 / 28.4	28.8 ✓	28	26.0	
8	B		27.4 / 26.4	26.7 ✓	28	23.9	
9	Y		26.0 / 25.0	25.3 / ~~24.8~~	27	22.6	
10	B		24.8 / 23.5	23.9 ✓	27	21.2	Inside of breakwater.
11	R	~~12:25~~	22.3 / 21.3	21.6 ✓	26	19.0	
12	Y	11:25	19.7 / 19.1	19.3 ✓	26	16.7	
13	B		18.0 / 17.2	17.5 ✓	26	14.9	
14	Y		16.5 / 15.5	15.9 ✓	25	13.4	
15	B		15.0 / 13.9	14.3 ✓	25	11.8	
16	R	~~12:37~~	14.0 / 13.0	13.3 ✓	24	10.9	
17	Y	11:32	12.2 / 11.0	11.4 ✓	24	9.0	
18	B		10.8 / 9.0	9.3 ✓	24	6.9	
19	Y		9.0 / 7.6	8.1 ✓	24	5.7	
20	B		7.9 / 6.3	~~6.8~~	24	2.0	

Foot
406+44.02 N

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~1:14~~	15.0 / 11.5	12.7 ✓	24	10.3	Rangeline 406+44.02 (N)
2	Y	12:14	19.3 / 17.0	17.8 ✓	24	15.4	Cont'd Outside of
3	B		30.0 / 28.0	28.7 ✓	24	26.3	breakwater
4	Y		30.2 / 28.3	28.9 ✓	24	26.5	First sndng at toe
5	B		32.3 / 30.2	30.7 ✓	24	28.3	of bkwtr.
6	R	~~1:18~~	32.5 / 30.2	31.0 ✓	23	28.7	
7		12:18					
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

Boat 406+44.02 (N) Cont'd.

F.B. 1603 PG. 130

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

Survey of Beach Erosion Date 1-5-49 Date ____ X-Sec.

Survey by Kleineck Notes E.T.M.I. 12-16-48 Notes Chkd. ____ Checked ____ No. ____

Indexed A. C. Jobinger Date ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
408	408	1	R	12:46	180°50'	
+	+	2	Y		179°00'	RANGE LINE ∡ = 88° 17' 50"
98.13	98.13	3	B		180°15'	FROM SOUTH
(N)	(N)	4	Y		179°35'	
		5	B		179°40'	
		6	R	12:52	180°10'	
		7	Y		180°40'	
		8	B		180°25'	
		9	Y		179°55'	
		10	B		180°35'	
		11	R	12:56	179°15'	
		12	Y		180°20'	
		13	B		179°55'	
		14	Y		179°45'	
		15	B		179°15'	
		16	R	1:03	180°10'	
		17	Y		179°55'	
		18	B		180°10'	
		19	Y		180°00'	
		20	B		179°40'	

OUT 98.13' ON RANGE LINE

ON BASE LINE

INSIDE BREAKWATER

CONTINUED

Range 408+98.13 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4603 Pg. 131

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. Notes Chkd ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-15-48

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

F.B. 1503 PG. 132 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

Survey by KLEINECK Notes HHR 12-15-48 12-16-48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. Jordan Date _____ Date _____ Date _____ No. _____

Range 408 + 98.13 (N) Cont'd.

OUT 98.13 ON RANGE LINE.

ON BASE LINE.

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
408 + 98.13 (N)	21	R	1:12	180°00'
408 + 98.13 (N)	22	Y		180°00'
	23	B		180°00'
	24	Y		179°55'
	25	B		180°10'
	1	R	1:01	180°05'
	2	Y		180°05'
	3	B		180°00'
	4	Y		180°00'
	5	B		180°00'
	6	R	1:05	180°00'

OUTSIDE BREAKWATER DATE 12-16-48 ← INSIDE BREAKWATER 12-15-48

Remarks

RANGE LINE ∡ = 88°17'50" FROM SOUTH

Cont'd outside of breakwater 12-16-48

FORM 308 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
418+98 57	408	1	R	12 45	17 45	Range Line	408+98 13 (N)
	+98 13	2	Y		25 20		
		3	B		28 55		
	"	4	Y		29 40		
		5	B		30 30		
	"	6	R	12 51	31 05		
		7	Y		32 25		
		8	B		33 25		
	"	9	Y		34 25	Inside of Breakwater	
		10	B		35 30		
		11	R	12 55	36 40		
	"	12	Y		38 40		
		13	B		41 05		
	"	14	Y		43 05		
		15	B		44 00		
		16	R	1 02	46 50		
		17	Y		50 35		
		18	B		51 50		
		19	Y		52 55		
		20	B		54 05	Cont'd on next pg.	

Out 834.13 On Range Line

Cut-in 408+98 13 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4503 Pg. 133

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

Notes Chkd. ____ Checked ____ Survey by Klienack Notes J.W.J.M. Date 12-15-48

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

FORM 3[illegible]7 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
418+	408	21	R	1 11	54 35	Range Line 408+98 13 Cont'd	
98 57	+98 13	22	Y		54 50	inside of breakwater	
		23	B		55 00		
	"	24	Y		55 15		
	"	25	B		55 25		
		X	X		X		
'E'	" 'A'	1	R	1 03	216 45	Profile cont'd outside of	
		2	Y		216 15	breakwater	12-16-'48
		3	B		215 55		
	"	4	Y		215 10		
		5	B		214 35		
	"	6	R	1 07	212 45		
		7					

Cut-in 408+98.13(N) Cont'd See pg. 117 Out 834.13 on range line

See pg. 117

F.B. 1503 Pg. 134

Job No. 5412 Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of Beach Erosion Date ____ No. ____

Survey by Klieneck Notes J.W.S. M. 12-15-48 Notes Chkd. ____ Checked ____ X-Sec.

Indexed C. Johnson Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Bd. 7-3 Date 7-3-49 Plotted ____ Date ____ Job No. 8417 Division No. ____ Survey of Beach Erosion Survey by Notes Chkd. ____ Date ____ Checked ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1003 Pg. 125

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~12:45~~	2.5 / 1.7	2.0 ✓	21	-0.1	Range Line 408+98.13 (N)
2	Y	11:45	4.8 / 4.5	4.6 ✓	21	2.5	
3	B		6.9 / 6.6	6.3 ✓	21	4.1	
4	Y		8.1 / 7.7	7.8 ✓	21	5.7	
5	B		9.8 / 9.5	9.1 ✓	21	7.0	
6	R	~~11:51~~	11.9 / 10.5	10.8 ✓	20	8.8	
7	Y	11:51	13.0 / 12.6	12.4 ✓	20	10.4	
8	B		15.0 / 14.1	14.4 ✓	20	12.4	
9	Y		17.0 / 15.8	16.2 ✓	20	14.2	Inside of breakwater
10	B		17.1 / 16.5	16.7 ✓	20	14.7	
11	R	~~12:56~~	19.0 / 17.6	18.1 ✓	19	16.2	
12	Y	11:56	19.1 / 18.9	19.0 ✓	19	17.1	
13	B		21.4 / 20.0	20.5 ✓	19	18.6	
14	Y		22.2 / 21.0	21.4 ✓	18	19.6	
15	B		23.0 / 22.0	22.3 ✓	18	20.5	
16	R	~~1:03~~	24.5 / 23.5	23.8 ✓	17	22.1	Boat 408+98.13 (N)
17	Y	12:03	26.1 / 25.4	25.6 ✓	17	23.9	
18	B		27.8 / 26.5	26.9 ✓	17	25.2	
19	Y		28.2 / 27.5	27.7 ✓	17	26.0	
	R		29.8 / 29.9	~~29.8~~	17	26.2	Cont'd on next pg.

FORM 307 10M 10-46

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700 HALL OF RECORDS

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Do not extend notes this side of this line.

F.B. 103 PG. 136

Profile No. ____ X-Sec. No. ____

Job No. 8412 Division No. ____ Notes Red 77.27 Plotted ____

Survey of Beach Erosion Date 1-5-48 Date ____

Survey by Hennert Notes ETM.M. 12/16/48 Chkd. ____ Checked ____

Indexed by C. Johnson Date ____ Date ____

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			26.0				
21	R	~~1:11~~	25.8	259✓	15	24.4	408+98.13 — Cont'd from
			24.0				
22	Y	12:11	23.4	236✓	15	22.1	preceding pg.
			21.1				
23	B		20.7	208✓	15	19.3	
			16.4				
24	Y		15.4	157✓	15	14.2	
			10.7				
25	B	~~1:14~~	10.5	106✓	14	9.2	On rocks - Inside toe of brkwtr
		12:14					
		X		X	X	X	
			15.0				
1	R	~~1:02~~	13.0	13.7✓	27	11.0	Profile Cont'd outside
			19.0				
2	Y	12:02	16.0	17.0✓	27	14.3	of breakwater
			21.8				
3	B		19.0	19.5 ~~17.0~~✓	27	16.8	12-16-'48.
			30.0				
4	Y		28.0	28.7✓	27	26.0	First sounding at toe of
			31.8				
5	B		29.5	30.3✓	27	27.6	Bkwtr.
			33.2				
6	R	~~1:05~~	30.6	31.5✓	26	28.9	
		12:05					

Boat.
408+98.13 Cont'd

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
411	411	1	R	1:29	179°45'	RANGE LINE ∡ = 88°17'50" FROM SOUTH
+	+	2	Y		179°00'	
48.24	48.24	3	B		179°10'	
(N)	(N)	4	Y		180°15'	
		5	B		181°00'	
		6	R	1:34	180°20'	
		7	Y		179°45'	
		8	B		179°25'	
		9	Y		180°00'	
		10	B		179°55'	
		11	R	1:39	179°40'	
		12	Y		180°00'	
		13	B		180°00'	
		14	Y		179°15'	
		15	B		180°55'	
		16	R	1:44	180°20'	
		17	Y		179°50'	
		18	B		179°00'	
		19	Y		179°35'	

OUT 1034.13' ON RANGE LINE

ON BASE LINE

INSIDE BREAKWATER

Range 411+48.24 (N)

Cont'd on next pg.

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 137
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes AHR Date 12-15-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 150 PG. 138 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

Survey by KLEINECK Notes HHR 12-16-48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. Jenkins Date _____ Date _____ Date _____ No. _____

Range
411+48.24 (N) Cont'd
OUT 1034.13 ON RANGE LINE.

ON BASE LINE.

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
411 + 48.24 (N)	1	R	12:30	180°15'
411 + 48.24 (N)	2	Y		180°30'
	3	B		180°20'
	4	Y		180°05'
	5	B		179°15'
	6	R	12:33	179°00'

OUTSIDE BREAKWATER →

Cont'd from preceding pg.

Remarks

RANGE LINE ∡ = 88°17'50"
FROM SOUTH

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.			Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.		
418+98 57	408	1	R	1 27	62 00	Range Line	411+48 24
	+98 13	2	Y		61 30		
		3	B		61 20		
		4	Y		61 40 ok		
		5	B		61 15		
	"	6	R	1 32	59 10		
		7	Y		56 30		
	"	8	B		53 15		
	"	9	Y		51 30	inside of breakwater	
		10	B		48 30		
		11	R	1 37	46 15		
	"	12	Y		44 15		
		13	B		43 05		
		14	Y		41 30		
	"	15	B		41 55 ok		
		16	R	1 43	41 20		
		17	Y		40 50		
		18	B		40 15		
		19	Y		39 35		
		20	B				

Out 834.13 on range line

Cut-in 411+48.24 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1109 Pg. 139
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Klicneck Notes J.W.J.M. Date 12-15-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Jenner Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At "C"	Sight On "A"	#	Color	Time	Hor. Ang.	Remarks	
		1	R	12 32	215 35	Range Line 411+48.24 Cont'd	
		2	Y		214 50	Outside of breakwater.	
	"	3	B		214 05		
		4	Y		213 30	outside of breakwater	
	"	5	B		212 00		
		6	R	12 35	210 30		
	"	7	Y				

See pg. 117

Cut-in 411+48.24 (N) Cont'd

F.B. 1503 PG. 140

Job No. 5412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Klienck Notes J.W.S.M. 12-16-45 Notes Chkd. Checked X-Sec.

Indexed C. Jonkman Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red Date 1-5-49 Plotted Date ____ Job No. 5476 Division No. ____ Notes Chkd Date ____ Checked Date ____ Survey of Beach Erosion Survey by Thomas Nelson Map No. ____ Recorded Date ____ F.B. 1463 Pg. 141

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~12:28~~	15.0 / 14.0	14.9✓	12	13.1	Range Line 411+48.24 (N)
2	Y	12:28	17.1 / 16.8	16.9✓	12	15.7	Inside toe of breakwater
3	B		21.4 / 21.0	21.1✓	12	19.9	
4	Y		27.3 / 26.5	26.8✓	11	25.7	
5	B		28.5 / 27.5	27.8✓	11	26.7	
6	R	~~12:33~~	26.7 / 26.0	26.1✓	10	25.1	
7	Y	12:33	25.0 / 24.0	24.3✓	10	23.3	
8	B		23.5 / 22.5	22.8✓	10	21.8	
9	Y		22.4 / 21.5	21.8✓	10	20.8	Inside of breakwater
10	B		20.5 / 19.5	19.8✓	10	18.8	
11	R	~~12:38~~	18.5 / 17.5	17.8✓	09	16.9	
12	Y	12:38	17.0 / 15.9	16.3✓	09	15.4	
13	B		15.4 / 14.5	14.8✓	09	13.9	
14	Y		13.3 / 12.3	12.6✓	09	11.7	
15	B		12.6 / 11.4	11.8✓	09	10.9	
16	R	~~12:43~~	11.1 / 9.8	10.2✓	08	9.4	
17	Y	12:43	8.0 / 7.4	8.6✓	08	7.8	
18	B		6.4 / 6.4	6.4✓	08	5.6	
19	Y	~~12:45~~	4.4 / 4.0	4.1✓	08	3.3	
		12:45					

Boat
411+48.24 (N)

Cont'd next pg.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~12:31~~	13.4 10.8	11.7 ✓	35	8.2	Range Line 411+48.24
2	Y	11:31	30.5 28.0	28.8 ✓	35	25.3	Cont'd outside of
3	B		33.8 30.3	31.5 ✓	35	28.0	breakwater
4	Y		33.0 30.9	31.6 ✓	35	28.1	Probably on rocks nr toe of
5	B		34.2 31.0	32.1 ✓	34	28.7	Bkwtr.
6	R	~~12:34~~ 11:34	34.0 32.0	32.7 ✓	34	29.3	

Boat
411+48.24(N) Cont'd

F.B. 1163 PG. 142 Job No. 8412 Division No. Notes Red. M.J. Plotted No. Profile
Survey of Beach Erosion Date 1-5-49 Date X-Sec.
Survey by Mamack Notes E.T.M. 12-16-48 Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
413	413	~~1~~	~~R~~	~~2:06~~	~~179°30'~~	RANGE LINE ∡ = 88°17'50" FROM SOUTH
+	+	2	Y		180°00'	
98.35	98.35	3	B		178°30'	
(N)	(N)	4	Y		179°55'	
		5	B		180°40'	
		6	R	2:11	180°00'	
		7	Y		180°40'	
		8	B		179°30'	
		9	Y		180°50'	
		10	B		180°05'	
		11	R	2:15	180°40'	
		12	Y		180°30'	
		13	B		180°40'	
		14	Y		180°35'	
		15	B		180°20'	
		16	R	2:26	179°55'	
		17	Y		180°00'	
		18	B		180°00'	
		19	Y		179°50'	
		20	B		180°10'	

OUT 1034.13' ON RANGE LINE

ON BASE LINE

INSIDE BREAKWATER

Out

Range

CONTINUED

Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of BEACH EROSION Survey by KLEINECK Notes H H R Date 12-15-48 Checked ____ Date ____ Map No. ____ Date ____ Date ____ X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____

F.B. 1507 PG. 143

F.B. 1503 PG. 144 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION 12-15-48 Date _____ Date _____ No. _____

Survey by KLEINECK Notes HHR 12-16-48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Jonasson Date _____ Date _____ Date _____ No. _____

Range
413 + 98.35 (N) Cont'd

OUT 1034.13 ON RANGE LINE

ON BASE LINE

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At 413 + 98.35 (N)				
On 413 + 98.35 (N)				
#	Color	Time	Hor. Ang.	
21	R	2:32	180° 10'	
22	Y		180° 15'	
1	R	12:16	179° 10'	
2	Y		179° 15'	
3	B		179° 00'	
4	Y		179° 20'	
5	B		179° 10'	
6	R	12:21	179° 00'	

OUTSIDE BREAKWATER DATE: 12-16-48 ← INSIDE BREAKWATER DATE 12-15-48

Remarks

RANGE LINE ∡ = 88° 17' 50" FROM SOUTH

Cont'd on outside of breakwater 12-16-48

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. °	'	Out	Remarks
406+44.02	406+44.02	~~1~~	~~R~~	~~2 05~~				Range Line 413+98.35 (N)
		2	Y		234	15		
		3	B		231	05		
		4	Y		229	55		
		5	B		229	50		
		6	R	2 09	228	55		
		7	Y		228	25		
		8	B		227	05		
		9	Y		226	30		Inside of breakwater
		10	B		224	05		
		11	R	2 14	223	15		
		12	Y		219	45		
		13	B		217	00		
		14	Y		215	10		
		15	B		213	30		
		16	R	2 24	210	40		
		17	Y		209	15		
		18	B		208	00		
		19	Y		207	10		
		20	B		207	00		Cont'd on next pg.

Out 700 on Range Line

On Base Line

Cut-in 413+98.35 (N)

Profile
No. ____ Notes Red ____ Plotted ____ Job No. 5412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Klieneck Notes J.W.S.M. Date 12-15-48
Date ____ Date ____ Map No. ____ Andrew Johnson Date ____

F.B. 1503 Pg. 145

FORM 301 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
406+	406+	21	R	2 30	[illegible]	Range Line 413+98.35 Cont'd	
44.02	44.02	22	Y		[illegible]	inside of breakwater.	
		X		X	X		
"C"	"A"	1	R	12 18	222 40	Profile Cont'd outside of	
		2	Y		222 05	breakwater	12-16-'48
		3	B		221 20		
		4	Y		220 30	outside of breakwater.	
		5	B		220 00		
		6	R	12 23	218 25		
		7	Y				

Cut-in 413+98.35 (N) Cont'd See pg. 117+ Out 700' on Range Line

See pg. 117+ On Base Line

F.B. 1503 PG. 146

Job No. 1412 Division No. Notes Red Plotted Profile

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

Survey by Kienech Notes Tw.S.M. 12-15-48 Notes Chkd Checked

Indexed A. C. Johnson Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ X-Sec. No. ____ Notes Red M.X. Date 1-5-49 Plotted ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion Survey by Merrick Notes Johnson Indexed ____ Date ____ Map No. ____ F.B. 1163 Pg. 149 LINE 48

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~205~~	~~2.0~~ 2.0	~~2.5~~	Out		Range Line 413+98 BJ (W)
2	Y	1:05	2.5	2.7 ✓	04	2.3	
3	B		4.5	4.2 ✓	04	3.8	
4	Y		6.4	6.1 ✓	04	5.7	
5	B		8.4	8.1 ✓	04	7.7	
6	R	~~210~~	10.4	10.1 ✓	03	9.8	
7	Y	1:10	12.2	12.1 ✓	03	11.8	
8	B		13.5	13.3 ✓	03	13.0	
9	Y		15.1	15.0 ✓	03	14.7	Inside of breakwater
10	B		16.7	16.3 ✓	03	16.0	
11	R	~~215~~	18.2	18.1 ✓	02	17.9	
12	Y	1:15	19.5	19.4 ✓	02	19.2	
13	B		21.1	21.0 ✓	02	20.8	
14	Y		21.2	21.4 ✓	02	21.2	
15	B		22.9	22.6 ✓	02	22.4	
16	R	~~220~~	24.4	24.1 ✓	01	24.0	
17	Y	1:25	25.1	25.0 ✓	01	24.9	
18	B		26.1	26.0 ✓	01	25.9	
19	Y		25.1	25.0 ✓	01	24.9	
20	B		21.0	20.9 ✓	01	20.8	

Boat

Elev. 28.35 (W)

Cont'd on next pg.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	R	1:30 ~~2:30~~	13.2 13.0	13.1 ✓	00	13.1	Range Line 413+98.35 (N)
22	Y	~~2:31~~ 1:31	6.0 6.0	6.0 ✓	00	6.0	Cont'd
		X		X	X	X	
1	R	~~12:17~~ 11:17	21.1 18.3	19.2 ✓	38	15.4	Profile Cont'd outside
2	Y		20.0 28.2	28.8 ✓	38	25.0	of breakwater
3	B		32.0 29.6	~~30.4~~ 30.7	38	26.9	12-16-'48
4	Y		34.2 30.1	31.5 ✓	38	27.7	First sinding at toe of
5	B		34.4 31.4	32.4 ✓	38	28.6	Bkwtr.
6	R	~~12:21~~ 11:21	34.8 32.0	32.9 ✓	37	29.2	

Boat 413+98.35 (N) Cont'd

F.B. 1503 PG. 148 Job No. 8412 Division No. Notes Red. M.B. Plotted No. Profile
Survey of Beach Erosion Date 1-5-49 Date X-Sec.
Survey by Meineck Notes ETA Jr. 12/15/48 Notes Chkd. Checked No.
Indexed A. C. Jenkins Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
418	411	1	R	11:22	89°25'	
+	+	2	Y		89°00'	RANGE LINE ∡=88°17'50"
98.57	48.24	3	B		89°10'	FROM SOUTH
(N)	(N)	4	Y		88°10'	
		5	B		88°30'	
	=	6	R	11:26	88°15'	
		7	Y		88°55'	
		8	B		88°15'	
	=	9	Y		88°15'	
		10	B		89°15'	
		11	R	11:32	88°10'	
	=	12	Y		89°00'	
		13	B		88°50'	
		14	Y		89°10'	
		15	B		88°40'	
		16	R	11:39	89°00'	
		17	Y		88°15'	
		18	B		88°00'	
		19	Y		88°35'	
		20	B		88°05'	

OUT 834.13' ON RANGE LINE.

OUT 834.13'

INSIDE BREAKWATER

Range

#18+98.57 (N)

CONTD NEXT PAGE

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 114

X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION Survey by KLEINECK Notes HHR Date 12-16-48

Map No. ____ Indexed S. Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
418	411	21	R	11:52	88°15'	INSIDE BREAKWATER	CONTD FROM PRECEDING PAGE. Remarks
+	+	22	Y		88°05'		RANGE LINE ∡ = 88°17'50"
98.57	48.24	23	B		88°15'		FROM SOUTH.
(N)	(N)	24	Y		88°30'		
		25	B		88°35'		
	=	26	R	11:55	88°30'		
		27	Y		88°30'		
		~~1~~	~~R~~	~~12:02~~	~~88°15'~~	Out	
	=	~~2~~	~~Y~~		~~88°05'~~	"	
		3	B		88°25'	OUTSIDE BREAKWATER	
		4	Y		88°35'		
	=	5	B		88°20'		
		6	R	12:06	88°25'		
		7	Y		88°15'		
	OUT 834.13'						

OUT 834.13' ON RANGE LINE

Range 418 + 98.57 (N) Cont'd

F.B. 1[illegible] PG. 150 Job No. 8412 Division No. Notes Red. Plotted No. Profile

Survey of BEACH EROSION Date Date X-Sec.

Survey by KLEINECK Notes HHR 12-16-48 Notes Chkd. Checked No.

Indexed C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
"C"	"A"	1	R	11 25	280	30	Range Line	418+98.57
		2	Y		278	45		
		3	B		278	05		
		4	Y		276	30		
	"	5	B		275	15		
	"	6	R	11 28	272	45		
		7	Y		270	30		
	"	8	B		269	25		
		9	Y		267	20		
		10	B		266	40		
		11	R	11 34	265	10		
		12	Y		263	15		
		13	B		260	50		
		14	Y		257	50		
		15	B		255	00		
		16	R	11 42	252	00		
		17	Y		246	20		
		18	B		243	40		
		19	Y		242	15		
		20	B		239	00		

See pg. 117

Cut-in
418+98.57 (N)

Profile
No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Klerneck Notes J.W.S.M. Date 12-16-48
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 4503 Pg. 157

F.B. 1503 PG. 152 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Kleineck Notes J.W.S.M. 12-16-50 Notes Chkd. _____ Checked _____ X-Sec.

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

Cut-in
418+98.57(N) Contd

See pg. 117

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
C A	21	R		239 10	Range Line 418+98.57
	22	Y		238 05	
	23	B		237 40	
"	24	Y		237 25	
	25	B		237 05	
"	26	R	11 57	236 45	
	27	Y		236 30	
"	3	B		233 55	Outside Breakwall (Missed #1&2)
	4	Y		233 20	
	5	B		232 30	
	6	R	12 08	231 15	
	7	Y		230 00	
		B			

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date 1-5-49 Plotted ____ Date ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion
Survey by Helgeson Notes FT HE Date 12-16-48 Map No. ____ Notes Checked Johnson Date ____
F.B. 1165 Pg. 153

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~11:23~~	8.8 / 6.5	7.3 ✓	52	2.1	Rangeline 418+98.52 (N)
2	Y	10:23	10.0 / 7.8	8.5 ✓	52	3.3	
3	B		10.1 / 9.1	9.4 ✓	52	4.2	
4	Y		12.0 / 10.0	10.7 ✓	52	5.5	
5	B		12.8 / 11.0	11.3 ✓	52	6.1	
6	R	~~11:27~~	14.0 / 12.9	~~13.6~~ 13.3 ✓	51	8.2	
7	Y	10:27	16.4 / 19.9	15.4 ✓	51	10.3	
8	B		18.5 / 17.0	17.5 ✓	51	12.4	
9	Y		20.7 / 19.0	19.6 ✓	51	14.5	
10	B		22.0 / 20.4	20.9 ✓	51	15.8	
11	R	~~11:32~~	22.7 / 21.7	22.0 ✓	50	17.0	
12	Y	10:32	24.0 / 22.8	23.2 ✓	50	18.2	
13	B		25.1 / 24.1	24.4 ✓	50	19.4	
14	Y		26.2 / 25.4	25.7 ✓	49	20.8	
15	B		27.5 / 26.8	27.0 ✓	49	22.1	
16	R	~~11:40~~	28.4 / 27.3	27.7 ✓	48	22.9	
17	Y	10:40	29.8 / 28.8	29.1 ✓	48	24.3	
18	B		30.0 / 29.9	29.6 ✓	48	24.8	
19	Y		30.2 / 29.8	29.9 ✓	48	25.1	
20	B		30.4 / 30.0	30.3 ✓	48	25.5	Cont'd on next pg

418+98.52 (N)

Cont.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. X-Sec. No.

Plotted M.T. Date 1-5-49 Checked Date

Notes Red Date 1/13/49 Notes Chkd Date

Job No. 5442 Division No. Notes Etc. Date

Survey of Beach Stations

Survey by Hubert Notes Etc. Date

Indexed C. Johnson Date

F. B. 105 PG. 154

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			30.7				
21	R	~~11:52~~	30.3	30.4 ✓	46	25.8	418+98 Cont'd.
			30.0				
22	Y	10:52	28.9	29.3 ✓	46	24.7	
			28.9				
23	B		27.7	28.1 ✓	46	23.5	
			27.0				
24	Y		25.6	26.1 ✓	46	21.5	
			23.3				
25	B		23.1	23.2 ✓	46	18.6	
			19.0				
26	R	~~11:56~~	18.5	18.7 ✓	46	14.1	
			13.5				
27	Y	10:56	13.0	13.2 ✓	45	8.7	Toe of bkwtr. shore side
×	×	×	×	×	× ×	× ×	× × × × × ×
			21.0				
1	R	~~12:02~~	19.7	20.1		out	Profile con't. outside of
			27.0				
2	Y	12:02	25.0	25.7		out	Breakwater
			31.1				
3	B		29.4	30.0 ✓	43	25.7	
			33.6				
4	Y		30.7	31.2 ✓	43	27.4	
			34.7				
5	B		32.2	33.0 ✓	43	28.7	
			34.5				
6	R	~~12:06~~	32.5	33.2 ✓	43	28.9	
			35.0				
7	Y	11:06	32.6	33.4 ✓	42	29.2	

Boat. 418+98 Cont'd

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion
Survey by Hancock Notes C.H. Date 12/20/48 Map No. ____ Indexed Johnson Date ____

F. B. 6 Pg. 153

STATION	B. S.	H. I.	F. S.	ELEV.							
	Inst. Sight At	On	#	Color	Time	Hor. Ang.				Remarks	
423+98.29 (N)	423+98.29		1	R	937	179°35'	Range Line ∠ 88°17'50"				
	ON		2	Y		180°05'	From South				
	Baseline		3	B		180°25'					
			4	Y		180°20'					
			5	B		180°05'					
			6	R	942	180°45'					
			7	Y		180°15'					
			8	B		180°15'					
			9	Y		180°35'					
			10	B		180°30'					
			11	R	946	180°55'					
			12	Y		180°15'					
			13	B		180°20'					
			14	Y		180°20'					
			15	B		180°40'					
			16	R	952	181°00'	(21)	R	1002	174°25'	
			17	Y		180°05'	(22)	Y		175°40'	
			18	B		180°20'	(23)	B		177°20'	
			19	Y		180°10'					
			20	B		179°55'					

660' OUT ON Rangeline

Range 423+98.29 (N)

North End

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 428+ 98.70 (N)	Sight On 428+ 98.70 ON Base-line	#	Color	Time	Hor. Ang.	Remarks	
		1	R	1016	180°10'	Range line ∡ = 90°12'	
		2	Y		180°20'		From South
		3	B		179°50'		
		4	Y		180 10		
		5	B		179°40'		
		6	R	1026	179°00'		
		7	Y		179°25'		
		8	B		179 25		
		9	Y		179 15		
		10	B		179 35		
		11	R	1032	180°40		
		12	Y		180°05		
		13	B		179°40		
		14	Y		180°15		
		15	B		180 05		
		16	R	1037	180 05		
		17	Y		180 00		
		18	B		180 25		
		19	Y		180 05		
		20	B		180 20		

Range 428+98.70 (N) 560 OUT ON Range line

F.B. 1/503 PG. 156

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

Survey of Beach Erosion Date ____ Date ____ No. ____

Survey by Kleineck Notes S.H. 12/20/48 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. Jennings Date ____ Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 5442 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Kilbreck & Nowlin S.M. Date 12-20-41
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 4023 Pg. 157

STATION	B. S.	H. I.	F. S.	ELEV.									
Inst. At	Sight On	#	Color	Time	Hor. Ang.						Remarks		
"C"	"A"	1	R	9.39	285	15	Range Line				423+96 ±		
		2	Y		284	10							
		3	B		283	20							
		4	Y		282	20							
		5	B		281	45							
		6	R	9.42	280	50							
See pg. 117	" "	7	Y		280	05							
		8	B		279	00							
		9	Y		278	00	Inst. at "C" Sight on "A"						
		10	B		277	35	North End of Breakwall						
	"	11	R	9.47	276	45	71	R	10-08	241	10		
		12	Y		275	55	72	Y		241	50		
		13	B		274	15	73	B		242	15		
		14	Y		271	40							
		15	B		267	10							
		16	R	9.53	263	05							
		17	Y		258	00							
		18	B		253	50							
		19	Y		250	20							
		20	B		247	25							

Cut 117
423+96.74 (N)

FORM 30[illegible] 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 "C"	Sight On "A"	#	Color	Time	Hor. Ang.	Remarks	
		1	R	10 16	252 25		
		2	Y		256 55	Range Line 428+98.70 (N)	
		3	B		260 30		
		4	Y		264 30		
		5	B		268 15		
	"	6	R	10 26	272 15		
	"	7	Y		275 30		
	"	8	B		277 25		
		9	Y		278 25		
		10	B		271 20		
		11	R	10 33	280 05		
		12	Y		280 35		
		13	B		280 40		
		14	Y		281 30		
		15	B		281 50		
		16	R	10 38	282 25		
		17	Y		282 35		
		18	B		282 45		
		19	Y		283 30		
		20	B		284 30		

See pg. 117

~~Range~~ Cut-in
428+98.70 (N)

F.B. 16 PG. 158

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

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

Survey by Kleinrock Notes J.W.S.M. 12-20-48 Notes Chkd. Checked

Indexed C. Jones Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date 1-5-49 Notes Red M.X. Plotted ____ Date ____ Job No. 8412 Division No. 1
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Date ____ Survey of Reynolds Notes EJM Date 12-20-48
Survey by Reynolds Tides Jahnson Date ____ Map No. ____ Date ____

F.B. 169 Pg. 159

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~9:38~~	5.5 5.0	5 2✓	42	1.0	Range Line 423+98 (N)
2	Y	8:38	6.3 5.8	6 0✓	42	1.8	
3	B		7.5 6.8	7 0✓	42	2.8	
4	Y		9.0 8.2	8 5✓	42	4.3	
5	B		10.3 9.4	9 7✓	42	5.5	
6	R	~~9:43~~	11.5 10.6	10 9✓	43	6.6	
7	Y	8:43	13.1 12.5	12 7✓	43	8.4	
8	B		14.9 14.0	14 3✓	43	10.0	
9	Y		16.5 15.1	15 6✓	43	11.3	
10	B		17.3 16.0	16 4✓	43	12.1	
11	R	~~9:48~~	18.4 17.6	17 9✓	44	13.5	
12	Y	8:48	19.3 18.9	19 0✓	44	14.6	423+98 (N)
13	B		21.6 20.8	21 1✓	44	16.7	
14	Y		23.1 22.5	22 7✓	44	18.3	
15	B		24.3 23.8	24 0✓	44	19.6	
16	R	~~9:53~~	25.5 24.9	25 1✓	44	20.7	
17	Y	8:53	26.8 26.9	26 3✓	44	21.9	
18	B		28.4 27.5	27 8✓	44	23.4	
19	Y		30.0 29.1	29 4✓	44	25.0	
20	B		30.9 30.6	30 3✓	44	25.9	cont'd on next page

F. B. 1503 PG. 100 | Job No. 8412 | Division No. V | Notes Red. M.B. | Plotted | Profile

Survey of Beach Erosion | Date 1-5-49 | Date | No.

Survey by Kleineck | Notes R.T.M. 12/20/48 | Notes Chkd | Checked | X-Sec.

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

Boat.
423+98.79 (N) Cont'd

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
# Color	Time	Meas. Depth	Bottom Elev.	Ht. Adj. Depth		
21 R		18.5	168 ✓	46	12.2	on Rocks at end of Bkwtr
22 Y	10 02	32.0	316 ✓	46	27.0	on Sand at end of Bkwtr
23 B	9.02	31.4	320 ✓	46	27.4	" " " " "
	10 05	31.8				
	9.05					

(Range line 423+98.79 N cont'd)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Pit Tide	Adj. Depth	Remarks
1	R	~~10:16~~	30.2 29.5	29 7✓	47	25.0	Range line 428+98 20 (N)
2	Y	9:16	28.2 27.8	27 9✓	47	23.2	
3	B		27.4 26.7	26 9✓	47	22.2	
4	Y		26.0 25.4	25 6✓	47	20.9	
5	B		25.3 24.7	24 5✓	47	19.8	
6	R	~~10:26~~	24.0 23.5	23 7✓	48	18.9	
7	Y	9:26	23.4 22.4	22 7✓	48	17.9	
8	B		22.0 21.3	21 5✓	48	16.7	
9	Y		20.5 19.5	19 8✓	48	15.0	
10	B		18.5 18.0	18 2✓	48	13.4	
11	R		17.0 16.0	16 3✓	48	11.5	
12	Y		13.8 13.0	13 3✓	48	8.5	
13	B		15.5 14.0	14 5✓	48	9.7	went out for this shot
14	Y		11.6 11.2	11 3✓	48	6.5	
15	B		11.0 10.0	10 3✓	48	5.5	
16	R	~~10:38~~	9.7 8.3	9 2✓	49	4.3	
17	Y	9:38	9.4 8.1	8 5✓	49	3.6	
18	B		9.0 7.5	8 0✓	49	3.1	
19	Y		7.9 6.8	6 6✓	49	1.7	
20	B	~~10:40~~ 9:40	6.5 5.9	6 [illegible]	49	1.2	Last shot

428+98.20 (N)

Boat

Profile. Notes Red 9-3 Plotted Date 1-5-49 Date Checked Date Date Date

No. X-Sec. No. Notes Ckd. Date Map No. Index

Job No. 8412 Division No. 1 Survey of Beach Erosion Survey by Klebeck Notes RJM Date 12/20/48 Index C. Johnson Date

F. B. 4603a. 61

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~10:58~~	4.8 3.9	4 2	51	+0.9	Range Line 433+98.84 (N)
2	Y	9:58	5.7 5.0	5 2	51	0.1	
3	B		6.6 6.0	6 2	51	1.1	
4	Y		9.1 7.7	8 2	51	3.1	
5	B		10.3 9.3	9 6	51	4.5	
6	R	~~11:03~~	10.4 10.0	10 1	52	4.9	
7	Y	10:03	12.0 11.3	11 5	52	6.3	
8	B		12.8 12.5	12 6	52	7.4	
9	Y		14.5 14.0	14 2	52	9.0	
10	B		15.9 14.7	15 1	52	9.9	
11	R	~~11:09~~	16.3 15.4	15 7	52	10.5	
12	Y	10:09	17.7 17.0	17 2	52	12.0	
13	B		18.9 18.3	18 5	52	13.3	
14	Y		20.4 19.4	19 7	52	14.5	
15	B		22.0 21.0	21 3	52	16.1	
16	R	~~11:18~~ 5	23.9 23.0	23 3	53	18.0	
17	Y	10:15	25.5 24.8	25 0	53	19.7	
18	B		27.0 26.6	26 7	53	21.4	
19	Y		29.0 28.4	28 6	53	23.3	
20	B	~~11:24~~	31.1 30.0	30 4	54	25.0	Last shot
		10:24					

Boat 433+98.84 (N)

F.B. 1503 PG. 162

Job No. 8412 Division No. ✓ Notes Red. M.C. Plotted ____ Date 1-5-49 Date ____ No. ____ Profile ____

Survey of Beach Erosion Notes RJM 12/20/48 Notes Chkd ____ Checked ____ X-Sec. ____

Survey by Kleineck Date ____ Date ____ Date ____ No. ____

Indexed C. Johnson

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
433+98.84 (N)	433+98.84	1	R	1057	180°10'	
		2	Y		180°30'	Range line ∡ = 92°28'
		3	B		181°00'	From
		4	Y		179°50'	South
		5	B		180°10'	
		6	R	1102	179°35'	
		7	Y		179°30'	
		8	B		179°45'	
		9	Y		180°00'	
		10	B		180°05'	
		11	R	1108	179°30'	
		12	Y		179°30'	
		13	B		179°30'	
		14	Y		179°20'	
		15	B		179°30'	
		16	R	1113	179°50'	
		17	Y		179°45'	
		18	B		180°35'	
		19	Y		179°50'	
		20	B	1122	180°20'	

520' OUT ON Range line

At Base Line

Range 433+98.84 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 G. 163

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd. ____ Checked ____ Survey by Klemeck Notes S.H. Date 12/20/48

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

FORM 303 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
438+	438+						
99 30	99 30	1	R	1132	180 15	Rangeline ∡ =	92°28'
(N)	ON	2	Y		180°20'		From South
	Base	3	B		179°55'		
	line	4	Y		180°20'		
		5	B		179°30'		
		6	R	1145	181°00'		
		7	Y		180°25'		
		8	B		179°55'		
		9	Y		179°40'		
		10	B		179°30'		
		11	R	1154	179°40'		
		12	Y		180°15'		
		13	B		180°00'		
		14	Y		180°15'		
		15	B		180°00'		
		16	R	1200	180°05'		
		17	Y		180 00		
		18	B		180 05		
		19	Y				

Range 438+, 99.30 (W) 460 out on Rangeline

F.B. 1603 PG. 164 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No. X-Sec.
Survey by Kleineck Notes S.H. 12/20/48 Notes Chkd. Checked
Indexed C. Jenkins Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
423+98.79	423+	1	R	10 57	268	50	Range Line	433+98.84 (W)
	98.79	2	Y		268	10		
		3	B		266	35		
		4	Y		260	50		
		5	B		260	00		
		6	R	11 03	259	05		
		7	Y		257	30		
		8	B		256	45		
		9	Y		255	45		
		10	B		255	25		
		11	R	11 08	254	45		
		12	Y		253	50		
		13	B		252	30		
		14	Y		251	00		
		15	B		248	25		
		16	R	11 13	243	40		
		17	Y		234	20		
		18	B		226	05		
		19	Y		216	00		
		20	B		210	30		

Out 660' On Range Line

Base Line

Cut-in
433+98.84 (W)

Profile
No. ____ Date ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Kleineck Noted J.W.S.M. Date 12-20-48
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1663 Pg. 165

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 423+ 98 79	Sight On 423+ 98 79	#	Color	Time	Hor. Ang.	Remarks	
		1	R	11 33	220 45	Range Line . 438+99 30 (N)	
		2	Y		222 45		
		3	B		227 25		
		4	Y		234 35		
		5	B		241 15		
		6	R	11 45	250 00		
		7	Y		255 30		
		8	B		255 55		
		9	Y		258 40		
		10	B		259 40		
		11	R	11 54	260 50		
		12	Y		261 15		
		13	B		262 15		
		14	Y		262 55		
		15	B		264 05		
		16	R	12 00	265 30		
		17	Y		267 45		
		18	B		269 00		
		~~19~~	~~Y~~				
		~~20~~	B				

Cut-in 438+99.30 (N) Out 660 on Range Line

At Base Line

Profile

Survey of Beach Erosion Job No. 8412 Division No. 4 Notes Red Date Plotted Date No. X-Sec.

Survey by Kleineck Notes J.W.S.M. 12-20-48 Notes Chkd Date Checked Date No.

Indexed C. Jenkins Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date 1-5-49 Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of Beach Fresno Survey by Klemer Noted RJM Date 12/22/48
Date ____ Date ____ Map No. ____ Drafted Johnson Date ____

F.B. 4603a 167

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks	
1	R	~~11:33~~	30.9 30.1 30.0	30.4	54	25.0	Range Line 138 + 99	(N) 30
2	Y	10:33	29.6	29.7	54	24.3		
3	B		28.1 27.6	27.7	54	22.3		
4	Y		26.9 26.0	26.3	54	20.9		
5	B		25.6 24.9	25.1	54	19.7		
6	R	~~11:44~~	24.1 23.8	23.9	55	18.4		
7	Y	10:44	22.8 22.0	22.3	55	16.8		
8	B		20.6 20.0	20.2	55	16.7		
9	Y		19.4 18.1	18.5	55	13.0		
10	B		17.3 16.9	17.0	55	11.5		
11	R	~~11:55~~	15.8 14.6	15.0	56	9.4		
12	Y	10:55	14.1 13.2	13.5	56	7.9		
13	B		12.1 11.8	11.9	56	6.3		
14	Y		11.6 11.0	11.2	56	5.6		
15	B		9.8 9.5	9.6	56	4.0		
16	R	~~12:00~~	8.1 7.8	7.9	56	2.3		
17	Y	11:00	7.0 6.0	6.3	56	0.7		
18	B	~~12:02~~	5.3 4.9	5.0	56	+0.6	Last sounding	
19	Y	11:02						
20	B							

Rod.

~~+30~~ 29.30 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.	30.3	
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	11:12 ~~12:12~~	5.5 5.0	5 2	57	-0.5	Range Line 443+99.76 (N)
2	Y	11:13 ~~12:13~~	7.0 5.6	6 1	57	0.4	
3	B	11:17 ~~12:17~~	8.2 7.1	7 75 4	57	1.8	
4	Y		10.0 8.3	8 9	57	3.2	
5	B		10.7 10.1	10 3	57	4.6	
6	R	~~12:20~~	13.0 12.2	12 5	57	6.8	
7	Y	11:20	14.0 13.0	13 3	57	7.6	
8	B		15.0 14.2	14 45 4	57	8.8	
9	Y		17.2 15.9	16 3	57	10.6	
10	B		18.2 18.0	18 1	57	12.4	
11	R	~~12:24~~	19.7 19.0	19 2	57	13.5	
12	Y	11:24	21.8 20.7	21 1	57	15.4	
13	B		23.2 22.8	22 9	57	17.2	
14	Y		24.2 23.8	23 9	57	18.2	
15	B		25.1 24.8	24 9	57	19.2	
16	R	~~12:31~~	26.8 26.0	26 3	58	20.5	Boot 443+99.76 (N)
17	Y	11:31	28.2 27.5	27 7	58	21.9	
18	B		29.0 28.0	28 3	58	22.5	
19	Y		29.9 29.1	29 4	58	23.6	
20	B		31.1 30.1	30 4	58	24.6	Last Sounding

F.B. 1503 PG. 168 Job No. 8412 Division No. ✓ Notes Red. M.E. Plotted No. Profile
Survey of Beach Erosion Date 1-5-49 Date X-Sec.
Survey by Kleineck Notes RJM 12/20/48 Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
443+99.76 (N)	443+99.76	1	R	12 11	180°15'	Rangeline ∡ = 92°28
	on	2	Y		181°10'	From South
	Baseline	3	B		179°45'	
		4	Y		179°30'	
		5	B		179°45'	
		6	R	12 19	179°50'	
		7	Y		179°40'	
		8	B		179°10'	
		9	Y		179°10'	
		10	B		179°25'	
		11	R	12 23	179°45'	
		12	Y		179°40'	
		13	B		179°55'	
		14	Y		179°15'	
		15	B		180°15'	
		16	R	12 32	180.30	
		17	Y		179 25	
		18	B		179 55	
		19	Y		180°00	
		20	B	12 42	180 00	

460' OUT ON Range Line

Range 443+99.76 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 169

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

Notes Chkd. ____ Checked ____ Survey by Stewart Notes S. H. Date 12/20/48

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 449+00.22 (N)	Sight On 449+00.22	#	Color	Time	Hor. Ang.	Remarks	
		1	R	0100	18005	Range line ∡ = 92°28'	
	ON	2	Y		18000		From South
	Base	3	B		17925		
	line	4	Y		17950		
		5	B		17920		
		6	R	0111	17930		
		7	Y		18005		
		8	B		17930		
		9	Y		17940		
		10	B		18040		
		11	R	0117	18000		
		12	Y		17835		
		13	B		18010		
		14	Y		18100		
		15	B		18005		
		16	~~R~~	~~0120~~	~~18000~~	Out.	
		17	Y		18135		
		18	B		18010		
		19	Y		18005		

Range 449+00.22 (N) 460 OUT ON Range Line

F.B. 1503 PG. 170 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Kleineck Notes S.H. 12/20/48 Notes Chkd Checked X-Sec.
Indexed C. Johnson Date Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
423+98 79	423+ 98 79	1	R	12 11	269	40		Range Line 443+99 76 (N)
		2	Y		268	05		
		3	B		267	00		
		4	Y		265	25		
		5	B		265	10		
		6	R	12 20	263	40		
		7	Y		263	25		
		8	B		262	50		
		9	Y		262	05		
		10	B		261	45		
		11	R	12 24	261	05		
		12	Y		259	50		
		13	B		257	15		
		14	Y		253	55		
		15	B		249	25		
		16	R	12 33	241	10		
		17	Y		237	20		
		18	B		234	50		
		19	Y		231	15		
		20	B		228	00		

Out 660' On Range Line

At Base Line

Cut-in 443+99.76 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 PG. 171

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Klemeck Notes J.W.S.M. Date 12-20-48

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
438+	438+	1	R	1 00	206 35	Range Line 449+00 22 (N)	
99 30	99 30	2	Y		208 50		
		3	B		211 50		
		4	Y		215 55		
		5	B		218 40		
		6	R	1 11	227 25		
		7	Y		233 45		
		8	B		239 35		
		9	Y		241 40		
		10	B		244 15		
		11	R	1 17	245 20		
		12	Y		246 25		
		13	B		247 55		
		14	Y		249 20		
		15	B		251 40		
		~~16~~	~~Y~~ R	~~0120~~		out out.	
		17	Y		254 10		
		18	B		256 05		
		19	Y		258 50		
		20	B				

At Base Line

Out 1-10
449+00.22 (N)
Out 460' On Range Line

F.B. 1503 Pg. 172

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

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

Survey by Kleineck Notes J.W.S.M. 12-20-45 Notes Chkd. ____ Checked ____ No. ____

Indexed C. Jannson Date ____ Date ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~1:01~~	31.1 / 30.0	304 ✓	58	24.6	Range Line 449+00.22 (N)
2	Y	12:01	29.8 / 29.0	293 ✓	58	23.5	
3	B		28.5 / 27.7	280 ✓	58	22.2	
4	Y		27.0 / 26.4	266 ✓	58	20.8	
5	B		26.0 / 25.5	257 ✓	58	19.9	
6	R	~~1:11~~	24.8 / 23.8	241 ✓	58	18.3	
7	Y	12:11	23.8 / 22.8	231 ✓	58	17.3	
8	B		22.7 / 22.0	222 ✓	58	16.4	
9	Y		21.1 / 20.5	207 ✓	58	14.9	
10	B		19.0 / 18.4	186 ✓	58	12.8	
11	R	~~1:18~~	16.8 / 15.9	162 ✓ ~~172~~	58	10.4	
12	Y	12:18	14.9 / 14.6	147 ✓	58	8.9	
13	B		13.3 / 12.8	130 ✓	58	7.2	
14	Y		10.7 / 10.4	105 ✓	58	4.7	
15	B		9.3 / 9.0	91 ✓	58	3.3	
16	~~R~~	~~1:21~~	8.6 / 7.9	81	OUT		
17	Y		8.1 / 5.9	66 ✓	58	0.8	
18	B		7.0 / 6.1	64 ✓	58	0.6	
19	Y		5.5 / 4.1	46 ✓	58	-1.2	
20							

Boat 449+00.22 (N)

Profile Notes Red M.B. Plotted _____ Job No. 8412 Division No. ✓ F.B. 1503 Pg. 173
No. _____ Date 1-5-49 Date _____ Survey of Beach Erosion
X-Sec. Notes Chkd. _____ Checked _____ Survey by Kleinck Notes RDM Date 12/20/48
No. _____ Date _____ Date _____ Map No. _____ Date _____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. X-Sec. No.

Notes Red. M. T. Plotted Date 1-5-49 Date Notes Chkd. Checked Date Date

Division No. Job No. 8412 Notes TRISE Indexed

Survey of Beach Erosion Survey by Meyers C. Jenkins Date

F.B. 1569 PG. 174

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~1:37~~	35 38 68	~~43~~ 44 ✓	56	+1.2	
2	Y	12:37	48 63	52 ✓	56	+0.4	RANGE LINE 454+06.68(N)
3	B		58 76	60 ✓	56	0.4	
4	Y		62 88	67 ✓	56	1.1	
5	B		76 97	80 ✓	56	2.4	
6	R	~~0140~~	90 110	92 ✓	56	3.6	
7	Y	12:40	99 122	103 ✓	56	4.7	
8	B		119 141	120 ✓	56	6.4	
9	Y		133 153	136 ✓	56	8.0	
10	B		152 189	156 ✓	56	10.0	
11	R	~~1:45~~	170 197	176 ✓	56	12.0	
12	Y	12:45	190 206	192 ✓	56	13.6	
13	B		200 220	202 ✓	56	14.6	
14	Y		211 227	214 ✓	56	15.8	
15	B		222 241	224 ✓	56	16.8	
16	R	~~1:51~~	235 259	237 ✓	55	18.2	Boat 454+06.68(N)
17	Y	12:51	243 256	248 ✓	55	19.3	
18	B		253 274	254 ✓	55	19.9	
19	Y		265 289	268 ✓	55	21.3	
20	B	1:02	278 302	282 ✓	54	22.8	
21	R	~~2:02~~	299	300 ✓	54	24.6	

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
454+06 68 (N)	454+06 68	1	R	01 35	180°10'	
	ON	2	Y		180°25'	Range line ∡ = 92°28'
	Baseline	3	B		180°25'	From South
		4	Y		179°55'	
		5	B		180°15'	
		6	R	01 40	179°45'	
		7	Y		180°00'	
		8	B		180°20'	
		9	Y		180°10'	
		10	B		180°00'	
		11	R	0144	179°45'	
		12	Y		180°10'	
		13	B		179°55'	
		14	Y		180°35'	
		15	B		179°55'	
		16	R	0151	179°25'	
		17	Y		179°45'	
		18	B		180°25'	
		19	Y		179°55'	
		20	B		179°40'	
		21	R	02 01	179°45'	

400' OUT ON Range Line

Range
454+06 68 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion
Notes Chkd. ____ Checked ____ Survey by Kleineck Notes S.H. Date 12/30/48
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1603 Pg. 175

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
459+	459+	1	R	0213	180 15	Range line ∡ = 92°28'	
01 14 (N)	01 14	2	Y		179 30		
	ON	3	B		179 30		
	Base	4	Y		179 45		
	line	5	B		179 40		
		6	R	0223	179 40		
		7	Y		179 05		
		8	B		179 50		
		9	Y		179 00		
		10	B		179 45		
		11	R	0229	179 40		
		12	Y		181 00		
		13	B		180 45		
		14	Y		180 15		
		15	B		181 20		
		16	R	0231	181 05		
		~~17~~	~~Y~~				
		~~18~~	~~B~~				
		~~19~~	~~Y~~				

Range 459+01.14 (N) Range 400' OUT ON Base line

F.B. No. 3 Pg. 176

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

Survey of Beach Erosion Date Date X-Sec.

Survey by Hemmer Notes S.H. 12-20-48 Notes Chkd. Checked No.

Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
438+99.30	438+99.30	1	R	1 36	262	36	Range Line 454+06.68 (N)
		2	Y		261	40	
		3	B		260	30	
		4	Y		257	50	
		5	B		257	20	
		6	R	1 40	256	05	
		7	Y		255	10	
		8	B		254	20	
		9	Y		253	10	
		10	B		252	20	
		11	R	1 44	251	35	
		12	Y		250	15	
		13	B		249	20	
		14	Y		247	30	
		15	B		242	15	
		16	R	1 51	237	45	
		17	Y		234	20	
		18	B		230	20	
		19	Y		225	05	
		20	B		219	45	
		21	R	2 02	216	40	

Out 460' On Range Line

At Base Line

Cut-in
454+06.68 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd. ____ Checked ____ Survey of Beach Erosion
No. ____ Date ____ Date ____ Survey by Kleineck Notes I.W.S.M. Date 12-20-48
Map No. ____ Indexed ____ Date ____

F.B. 1605 Pg. 177

F.B. 1503 G. 178 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Kleineck Notes J.W.S.M. 12-20-48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. Jones Date _____ Date _____ Date _____ No. _____

Cut-in
459+01.14 (N)
Out 460' On Range Line

At Base Line

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At On				
438+ 438+				
99 30 99 30				

#	Color	Time	Hor. Ang.
1	R	2 14	224 25
2	Y		226 40
3	B		227 50
4	Y		233 10
5	B		238 25
6	R	2 23	242 50
7	Y		246 30
8	B		250 30
9	Y		253 50
10	B		255 20
11	R	2 29	256 00
12	Y		256 55
13	B		257 45
14	Y		258 45
15	B		259 5
16	R	2 32	260 40
17	Y		
18	B		
19	Y		
20	B		

Remarks

Range Line 459+01.14 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~2:14~~	30 7 / 29 5	297 ✓	52	24.5	
2	Y	1:14	29 0 / 28 0	283 ✓	52	23.1	RANGE L. 459+01.14
3	B		28 0 / 27 8	273 ✓	52	22.1	
4	Y		26 8 / 25 9	262 ✓	52	21.0	
5	B		25 3 / 24 5	248 ✓	52	19.6	
6	R	~~2:24~~	24 6 / 24 0	242 ✓	51	19.1	
7	Y	1:24	23 8 / 22 5	229 ✓	51	17.8	
8	B		21 8 / 21 0	213 ✓	51	16.2	
9	Y		20 0 / 19 2	195 ✓	51	14.4	
10	B		17 3 / 16 5	168 ✓	51	11.7	
11	R	~~2:30~~	15 6 / 14 8	151 ✓	50	10.1	
12	Y	1:30	13 9 / 12 7	131 ✓	50	8.1	
13	B		11 3 / 10 7	109 ✓	50	5.9	
14	Y		10 0 / 8 9	93 ✓	50	4.3	
15	B		8 2 / 7 7	79 ✓	50	2.9	
16	R	~~2:33~~	6 5 / 5 6	59 ✓	49	1.0	
~~17~~	~~Y~~	1:33					
~~18~~	~~B~~						
~~19~~	~~Y~~						
~~20~~	~~B~~						

Profile Notes Red M.B. Plotted Job No. 8417 Division No. F.B. 603 Pg. 179
No. Date 1-5-49 Date Survey of Beach Boulevard
X-Sec. Notes Chkd. Checked Survey by Moneck Notes T. Mel Date 12-20-48
No. Date Date Map No. Indexed J. Johnson Date

Boot
459+01.14(N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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 Meas. Depth Time Bottom Hr. Tide					Adj. Depth	Remarks
# Color Time Depth Bottom Tide					Adj. Depth	Remarks

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd Date

Division No. Date

Job No. Notes Date

Survey of Survey by Indexed C. Johnson

F.B. 1503 PG. 190

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
464 + 01 61 (N)	464 + 01 61 (N)	1	R	8:36	180°10'	Range Line ∡ = 92°28' From South
		2	Y		180°25'	
		3	B		180°20'	
		4	Y		179°00'	
		5	B		179°20'	
		6	R	8:43	180°40'	
		7	Y		181°00'	
		8	B		180°45'	
		9	Y		180°00'	
		10	B		181°00'	
		11	R	8:46	180°40'	
		12	Y		180°15'	
		13	B		179°55'	
		14	Y		180°10'	
		15	B		179°45'	
		16	R	8:56	179°45'	
		17	Y		180°25'	
		18	B		180°40'	

OUT 400' ON RANGE LINE

ON BASE LINE

Range 464 + 01 61 (N)

Profile Notes Red ____ Plotted ____ Job No. 5412 Division No. ____ F.B. No 3-181

No. ____ Date ____ Date ____ Survey of Beach Forum

X-Sec. Notes Chkd ____ Checked ____ Survey by Hlewan Notes HHR Date 12-21-48

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

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
469	469	1	R	9:10	180°30'	RANGE LINE ∡ = 92°28'	
+	+	2	Y		180°25'		FROM SOUTH
02.09	02.09	3	B		179°40'		
(N)	(N)	4	Y		179°25'		
		5	B		179°50'		
		6	R	9:27	179°30'		
		7	Y		179°25'		
		8	B		179°55'		
		9	Y		180°00'		
		10	B		180°20'		
		11	R	9:33	180°55'		
		12	Y		180°05'		
		13	B		180°10'		
		14	Y		180°40'		
		15	B		180°10'		
		16	R	9:37	180°50'		
		17	Y		180°20'		
		18	B		181°20'		

OUT 400' ON RANGE LINE.

ON BASE LINE.

Range 469 + 02.09 (N)

F.B. 1503 PG. 182 Job No. 8412 Division No. Notes Red. Plotted Profile

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

Survey by KLEINECK Notes HHR 12-21-48 Notes Chkd. Checked

Indexed C. Jordan Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
454+00 68 (N)	N-42	1	R	8:36	164°	30'	Range Line	464+01 67 (N)
		2	Y		162°	00'	(going out)	
		3	B		160	10		
		4	Y		157	35		
		5	B.		156	50		
		6	R	8:43	155	10		
		7	Y		154	25		
		8	B		152	35		
		9	Y		151	05		
		10	B		149	15		
		11	R	8:46	145	45		
		12	Y		138	30		
		13	B		133	20		
		14	Y		123	35		
		15	B		119	35		
		16	R	8:56	115	55		
		17	Y		114	00		
		18	B		112	55		
		~~19~~	~~Y~~					
		~~20~~	~~B~~					

Out 400' On Range Line

Cut-in
464+01.61 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 113
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleinech Notes E.T.M.T. Date 12-21-48
No. ____ Date ____ Date ____ Map No. ____ Checked Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
454+00 68 (N)	N-42	1	R	9 09	11 50	Range Line (Coming in)	469+02.09 (N)
		2	Y		123 15		
		3	B		127 35		
		4	Y		130 50		
		5	B		134 45		
	"	6	R	9 25	140 05		
		7	Y		147 50		
	"	8	B		152 05		
		9	Y		155 40		
	"	10	B		159 45		
		11	R	9.33	160 55		
	"	12	Y		162 05		
		13	B		162 35		
	"	14	Y		163 55		
		15	B		164 50		
		16	R	9.36	166 25		
		17	Y		166 40		
		18	B		168 45		
		19	Y				

Cut-in 469+02.09 (N) Out 400' on range Line

F.B. 1503 PG. 184

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

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

Survey by Kleineck Notes E.T.M.Tr. 12-21-48 Notes Chkd. ____ Checked ____

Indexed C. Johnson Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Profile No. ____ Notes Red W. X. Date 1-5-49 Plotted ____ Date ____ Job No. ____ Division No. 1
X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by Hennebec Notes ITNB Date 12-21-48 Map No. ____ Indexed ____ Date ____

F.B. 1563 Pg. 151

STATION #	Color	Time	B. S. Meas. Depth	H. I.	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~8 36~~	42	35	4 3	31	0.4	Range Line 464 + 01.61 (N)
2	Y	7:36	6 0	5	5 3	31	2.2	
3	B		7 5	6	6 8	31	3.7	
4	Y		10 8	9	9 1	31	6.0	
5	B		10 9	9	9 8	31	6.7	Sharp Break
6	R	~~8 43~~	13	11	12 0	32	8.8	
7	Y	7:43	13 0	13	13 2	32	10.0	
8	B		15 2	15	15 8	32	12.6	
9	Y		18 0	17	17 3	32	14.1	
10	B		19 5	18	18 9	32	15.7	
11	R	~~8 46~~	20 4	19	19 8	32	16.6	
12	Y	7:46	21 6	21	21 2	32	18.0	
13	B		23 7	22	22 9	32	19.7	
14	Y		24 4	24	24 7	32	21.5	
15	B		26 5	25	25 9	32	22.7	
16	R	~~8 57~~	27 0	27	27 2	32	24.0	
17	Y	7:57	28 0	28	28 2	32	25.0	
18	B		28 4	28	28 7	32	25.5	Last sounding

Sta 7

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. 1583 G. 186 | Job No. 8412 | Division No. | Notes Red. M.J. | Plotted | Profile No.
Survey of Beach Erosion | Date 1-5-49 | Date | X-Sec. No.
Survey by Reliance | Notes JTM 3B 14 21 48 | Notes Chkd. | Checked | Date
Indexed by C. Johnson | Date | Date | Date | No.

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~7:07~~	30.4	30.8✓	33	27.5	
2	Y	8:09	28.2	28.7✓	33	25.4	R.L. 469+02.09 (N)
3	B		26.8	26.9✓	33	23.6	
4	Y		25.1	25.8✓	33	22.5	
5	B		24.3	24.3✓	33	21.0	
6	R	~~7:26~~	22.7	23.1✓	34	19.7	
7	Y	8:26	21.0	21.2✓	34	17.8	
8	B		19.9	20.3✓	34	16.9	
9	Y		19.6	19.6✓	34	16.2	
10	B		17.3	17.8✓	34	14.4	
11	R	~~7:33~~	15.0	15.9✓	35	12.4	
12	Y	8:33	13.3	13.8✓	35	10.3	
13	B		11.2	11.9✓	35	8.4	
14	Y		9.8	10.3✓	35	6.8	
15	B		8.0	8.6✓	35	5.1	
16	R	~~7:37~~	6.4	6.9✓	35	3.4	Boot 469+02.09 (N)
17	Y	8:37	6.7	6.5✓	35	3.0	
18	B		4.8	5.4✓	35	1.9	
19	Y						

FORM 307 10M 10-46

75 44 10

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
474	474	1	R	9:48	180°20'	RANGE LINE ∡ = 104° 15' 50"
+	+	2	Y		181°20'	FROM SOUTH
06 74	06 74	3	B		179°25'	
(N)	(N)	4	Y		179°40'	
		5	B		180°20'	
		6	R	9:51	180°15'	
		7	Y		179°50'	
		8	B		180°15'	
		9	Y		180°35'	
		10	B		180°40'	
		11	R	9:55	180°10'	
		12	Y		180°20'	
		13	B		179°50'	
		14	Y		180°10'	
		15	B		180°05'	
		16	R	10:05	180°05'	
		17	Y		180°25'	
		18	B		180°55'	
		19	Y		180°30'	

OUT 400' ON RANGE LINE.

ON BASE LINE.

Range
474 + 06 74 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1/5/13 Pg. 187
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes HHR Date 12-21-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
479	474	1	R	10:31	104°20'	RANGE LINE ∡ = 104° 15' 50"	
+	+	2	Y		104°00'	FROM SOUTH	
22.64	06.74	3	B		104°20'		
(N)	(N).	4	Y		104°25'		
		5	B		104°30'		
	=	6	R	10:43	104°35'		
		7	Y		105°30'		
		8	B		104°40'		
	=	9	Y		105°10'		
		10	B		104°45'		
	=	11	R	10:53	104°40'		
		12	Y		104°55'		
		13	B		103°50'		
	299'	14	Y		104°15'		
		15	B		104°45'		
		16	R	10:57	104°50'		
		17	Y		104°30'		
	=	18	B		104°05'		
		19	Y		104°45'		

OUT 299' ON RANGE LINE.

Range 4 + 22.64 (N)

Profile

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

Survey of BEACH EROSION Date Date X-Sec.

Survey by KLEINECK Notes HHR 12-21-48 Notes Chkd. Checked No.

Indexed A. C. JOHNSON Date Date

F.B. 1503 PG. 198

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
454+00 68 (N)	N-42	1	R	9:47	172 30	Range Line 474+06 74 (N)
		2	Y		170 05	(Going out)
		3	B		169 05	
		4	Y		168 25	
		5	B		167 45	
		6	R	9:51	166 55	
		7	Y		166 25	
		8	B		165 40	
		9	Y		164 50	
		10	B		164 05	
		11	R	9:54	163 10	
		12	Y		161 45	
		13	B		158 00	
		14	Y		153 15	
		15	B		147 35	
		16	R	10:04	143 15	
		17	Y		138 55	
		18	B		136 30	
		19	Y		132 50	
		~~20~~	~~B~~			

Out 400' on range Line

Cut-in
474+06 74 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1503 Pg. 117
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleinsek Notes E.T.M.T. Date 12-21-48
No. ____ Date ____ Date ____ Map No. ____ Indexed A.C. Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 469+ N-42	#	Color	Time	Hor. Ang.	Remarks	
0209 (N)	1	R	10:31	114 55	Range Line	479+22.64 (N)
	2	Y		116 30	(Coming in)	
	3	B		119 25		
	4	Y		123 30		
	5	B		126 25		
	6	R	10 42	129 25		
	7	Y		132 30		
	8	B		136 00		
	9	Y		141 50		
	10	B		143 55		
	11	R	10 52	148 45		
	12	Y		151 16		
	13	B		151 50		
	14	Y		153 10		
	15	B		154 10		
	16	R	10 56	155 10		
	17	Y		156 10		
	18	B		158 10		
	19	Y		159 45		
	20	B				

Cut-in 479+22.64 (N) Out 400' on range line

F.B. 1503 PG. 190

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

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

Survey by Kleineck Notes EIMJr. 12-21-48 Notes Chkd. Checked

Indexed C. Jordan Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~9:48~~	6 0 4 2	4 8✓	36	1.2	
2	Y	8:48	7 0 5 3	5 9✓	36	2.3	R.L. 474+06.74 (N)
3	B		8 0 7 0	7 3✓	36	3.7	
4	Y		9 1 8 1	8 4✓	36	4.8	
5	B		10 0 9 0	9 3✓	36	5.7	
6	R	~~9:51~~	11 9 10 5	11 0✓	36	7.4	
7	Y	8:51	13 8 12 4	12 9✓	36	9.3	
8	B		15 0 14 0	14 3✓	36	10.7	
9	Y		17 4 15 9	16 4✓	36	12.8	
10	B		19 0 17 5	18 0✓	36	14.4	
11	R	~~9:55~~	20 0 18 5	19 0✓	37	15.3	
12	Y	8:55	20 6 19 5	19 9✓	37	16.2	
13	B		22 0 21 0	21 3✓	37	17.6	
14	Y		23 1 22 1	22 4✓	37	18.7	
15	B		24 2 23 3	23 6✓	37	19.9	
16	R	~~10:05~~	26 0 24 7	25 1✓	37	21.4	
17	Y	9:05	27 7 26 7	27 0✓	37	23.3	
18	B		29 6 27 5	28 0✓	37	24.3	
19	Y		30 0 29 0	29 3✓	37	25.6	

Profile
No. ____ Date 1-5-49 Date ____ Notes Red M. X Plotted ____ Job No. 8412 Division No. V
X-Sec. ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Survey by Kleineck Notes JTMcB Date 12/21/48
No. ____ Date ____ Date ____ Map No. ____ Amended Johnson Date ____

F.B. 1503a 191

Boat
474+06.74 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

F.B. 1109 G. 197 Job No. 8412 Division No. V Notes Red M.D. Plotted Profile No.
Survey of Jeack Erosion Date 1-5-49 Date Checked X-Sec. No.
Survey by Klenck Notes JTMSB 1pl Notes Chkd Date
Indexed C. Jahnson Date Date

STATION #	Color	Time	B.S.	H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10:31~~		30.6 30.9	30 2✓	40	26.2	
2	Y	9:31		30.4 28.8	29 3✓	40	25.3	R.L. 479+22.64 (N)
3	B			29.0 27.8	28 2✓	40	24.2	
4	Y			27.4 25.9	26 4✓	40	22.4	
5	B			25.7 23.9	24 4✓	40	20.4	
6	R	~~10:35~~		23.8 22.0	22 7✓	41	18.6	
7	Y	9:43		22.4 22.0	22 5✓	41	18.4	
8	B			21.3 20.5	21 1✓	41	17.0	
9	Y			21.0 19.7	20 1✓	41	16.0	
10	B			20.0 18.8	19 2✓	41	15.1	
11	R	~~10:53~~		18.9 17.6	18 4✓	42	14.2	
12	Y	9:53		17.5 16.0	16 5✓	42	12.3	
13	B			15.4 14.2	14 5✓	42	10.3	
14	Y			13.7 12.2	12 7✓	42	8.5	
15	B			12.3 11.0	11 8✓	42	7.6	
16	R	~~10:57~~		11.3 10.0	10 4✓	42	6.2	Boat 479+22.64 (N)
17	Y	9:57		10.2 8.5	9 2✓	42	5.0	
18	B			8.9 7.9	7 3✓	42	3.1	
19	Y			7.5 5.8	6 4✓	42	2.2	
~~20~~	~~B~~							

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
484	479	1	R	11:11	105°25'	RANGE LINE ∡ - 104° 15' 50"	
+	+	2	Y		104°20'		FROM SOUTH
38 54	22 64	3	B		104°40'		
(N)	(N)	4	Y		104°40'		
		5	B		105°30'		
	"	6.	R	11:18	105°20'		
	"	7	Y		103°45'		
		8	B		104°00'		
	"	9	Y		105°45'		
		10	B		104°40'		
	"	11	R	11:22	104°15'		
	"	12	Y		104°55'		
		13	B		105°00'		
	"	14	Y		105°25'		
		15	B		103°50'		
	"	16	R	11:34	104°35'		
		17	Y		106°00'		
	"	18	B		104°25'		
		19	Y		104°25'		

OUT 299' ON RANGE LINE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ P. [illegible]
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] Notes [illegible] Date [illegible]
Notes Chkd ____ Checked ____ Survey by [illegible] Date ____
Map No. ____ Date ____ Date ____ Date ____

Range

F.B. 153 Pg. 194 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION Date _____ Date _____ No. _____

Survey by KLEINECK Notes HHR 12-21-48 Notes Chkd. _____ Checked _____ X-Sec.

Indexed [illegible] Date _____ Date _____ Date _____ No. _____

Range

489+50.83(N)

OUT 300' ON RANGE LINE.

ON BASE LINE.

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At	On				
489 + 50.83 (N)	489 + 50.83 (N)				
#	Color	Time	Hor. Ang.		Remarks
1	R	11:52	180°55'		RANGE LINE. 4 = 104° 06' 25" FROM SOUTH
2	Y		180°15'		
3	B		181°40'		
4	Y		180°00'		
5	B		180°35'		
6	R	12:05	181°00'		
7	Y		180°10'		
8	B		180°45'		
9	Y		180°25'		
10	B		180°00'		
11	R	12:16	181°10'		
12	Y		180°00'		
13	B		180°00'		
14	Y		179°55'		
15	B		180°40'		
16	R	12:24	180°00'		
17	Y		180°05'		
18	B		180°45'		

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
469+02.09 (N)	N-42	1	R	11 10	166 30	Range Line 484+38.54 (N)
		2	Y		164 00	(Going out)
		3	B		163 10	
		4	Y		162 15	
		5	B		161 00	
		6	R	11 18	160 05	
		7	Y		159 40	
		8	B		158 10	
		9	Y		156 50	
		10	B		155 05	
		11	R	11 21	153 40	
		12	Y		149 40	
		13	B		144 45	
		14	Y		140 40	
		15	B		137 15	
		16	R	11 33	134 15	
		17	Y		131 45	
		18	B		129 40	
		19	Y		128 45	
		~~20~~	~~B~~			

Out 400' on range Line

Cut-in 484+38.54 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1103 Pg. 195

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd ____ Checked ____ Survey by Kleinecke Notes E.T.M.Jr. Date 12-21-48

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

F.B. 1503 PG. 196 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Kleineck | Notes E.T.M. Jr. 12-21-48 | Notes Chkd. | Checked | X-Sec.

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

Cut-in
489+50.83 (N)
Out 400' on range Line
" " " " "

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At 469+ 02.09 (N) On N-42				

#	Color	Time	Hor. Ang.
1	R	1152	135 40
2	Y		137 30
3	B		140 20
4	Y		140 25
5	B		142 15
6	R	1203	144 50
7	Y		148 05
8	B		151 30
9	Y		154 00
10	B		154 55
11	R	1215	158 30
12	Y		160 45
13	B		162 05
14	Y		162 55
15	B		164 15
16	R	1223	165 30
17	Y		167 05
18	B		168 20
19	Y		

Remarks

Range Line 489+50.83 (N)
(Coming in)

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~11:10~~	5 5	5 9✓	44	1.5	
2	Y	10:10	7 9 / 6 2	6 8✓	44	2.4	R.L. 484+38.54
3	B		9 0 / 7 0	7 7✓	44	3.3	
4	Y		10 0 / 8 5	9 0✓	44	4.6	
5	B		11 4 / 10 5	10 8✓	44	6.4	
6	R	~~11:18~~	14 0 / 12 5	13 0✓	44	8.6	
7	Y	10:18	14 7 / 14 0	14 2✓	44	9.8	
8	B		17 0 / 15 7	16 1✓	44	11.7	Probably large rocks in This area
9	Y		18 7 / 17 5	~~17 8~~ 17 9✓	44	13.5	
10	B		20 2 / 18 7	19 2✓	44	14.8	
11	R	~~11:22~~	20 7 / 19 0	19 6✓	45	15.1	
12	Y	10:22	21 4 / 20 0	20 5✓	45	16.0	
13	B		22 0 / 21 2	21 5✓	45	17.0	
14	Y		23 3 / 22 4	22 7✓	45	18.2	
15	B		24 1 / 23 5	23 7✓	45	19.2	
16	R	~~11:34~~	26 2 / 25 6	25 8✓	46	21.2	
17	Y	10:34	29 3 / 28 1	28 5✓	46	23.9	
18	B		30 0 / 28 2	28 8✓	46	24.2	
19	Y		31 1 / 29 5	30 0✓	46	25.4	

Boat
484+38.54 (N)

Profile: No. ___ Date 1-5-49 Notes Red M.J. Plotted ___ Date ___ Job No. 8412 Division No. ✓ Survey of Beach Erosion Survey by Kleineck Notes JTMcB Date 12/21/48 Map No. ___ Indexed Jabbson Date ___ F.B. 1503 G. 197

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Plotted M.J. Date 1-5-49 Checked ____ Date ____

Notes Red ✓ Date ____ Notes Chkd ____ Date ____

Job No 8412 Division No. ✓

Survey of Rock Erosion

Survey by Reimack Notes RJM 11/11/48

Indexed J. C. J. Date ____

STATION #	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	~~11:52~~	29.7 / 29.5	29.6✓	4.7	24.9	Range Line 489+50.83 (N)
2	Y	10:52	29.7 / 29.0	29.2✓	4.7	24.5	
3	B		28.5 / 27.7	28.0✓	4.7	23.3	↑
4	Y		27.2 / 26.3	26.6✓	4.7	21.9	
5	B		26.5 / 25.3	25.7✓	4.7	21.0	
6	R	~~12:04~~	24.5 / 23.4	23.8✓	4.8	19.0	
7	Y	11:04	23.3 / 22.2	22.6✓	4.8	17.8	Probably large rocks
8	B		21.5 / 20.5	20.8✓	4.8	16.0	in this area
9	Y	11:14	20.5 / 19.5	19.8✓	4.9	14.9	
10	B	~~12:14~~	18.9 / 18.3	18.5✓	4.9	13.6	
11	R	~~12:15~~	18.1 / 17.4	17.6✓	4.9	12.7	
12	Y	11:15	16.7 / 15.9	16.2✓	4.9	11.3	
13	B		14.3 / 13.5	13.8✓	4.9	8.9	
14	Y		13.0 / 11.5	12.0✓	4.9	7.1	
15	B		10.5 / 9.5	9.8✓	4.9	4.9	
16	R	~~12:23~~	8.8 / 7.9	8.2✓	5.0	3.2	Boat 489+50.83 (N)
17	Y	11:23	6.5 / 5.9	6.1✓	5.0	1.1	
18	B		6.0 / 5.0	5.3✓	5.0	0.3	
~~19~~	~~Y~~						
~~20~~	~~B~~						

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
496	496	1	R	12:40	181°00'	RANGE LINE ∠	= 90°
+	+	2	Y		180°50'		
00	00	3	B		180°25'		
(N)	(N)	4	Y		179°40'		
		5	B		180°00'		
		6	R	12:46	182°00'		
		7	Y		180°40'		
		8	B		181°25'		
		9	Y		180°35'		
		10	B		181°05'		
		11	R	12:56	180°00'		
		12	Y		180°35'		
		13	B		180°00'		
		14	Y		180°00'		
		15	B		180°20'		
		16	R	1:02	180°00'		
		17	Y		180°15'		
		18	B		180°45'		
		19	Y		180°15'		
		20	B		180°20'		

OUT 270' ON RANGE LINE

ON BASE LINE.

CONT'D NEXT PAGE.

Profile

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

No. ____ Date ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Map No. ____ Indexed ____ Date ____

Range

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.	CONTINUED FROM PRECEDING PAGE
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
496	496	21	R	1:11	179°45'	RANGE LINE ∡ = 90°
+	+	22	Y		180°00'	
00	00	23	B		180°35'	
(N)	(N)	24	Y		180°35'	
		25	B		179°40'	
		26	R	1:19	180°00'	
		27	Y		180°10'	
		28	B		180°05'	

Range 496+00 (N) Cont'd
OUT 270' ON RANGE LINE.

ON BASE LINE.

Profile
Survey of BEACH EROSION Job No. 8412 Division No. Notes Red. Plotted No. X-Sec.
Survey by KLEINECK Notes HHR 12-21-48 Date Date Checked
Indexed C. Jabrucas Date Notes Chkd Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
484+38.54(N)	N-43	1	R				Range Line 496+00(N)
		2	Y	12 40	172°	00'	(Going out)
		3	B		168	20	
		4	Y		166	55	
		5	B		167	30	OK.
		6	R	12 46	166	35	
		7	Y		165	50	
		8	B		165	30	
		9	Y		162	40	
		10	B		161	45	
		11	R	12 55	156	40	
		12	Y		153	30	
		13	B		150	20	
		14	Y		148	30	
		15	B		146	50	
		16	R	1 01	145	25	
		17	Y		140	35	
		18	B		140	05	
		19	Y		138	30	
		20	B		137	05	

Out 299 on Range Line

Cut-in 496+00(N)

(over)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinecke Notes ETM Jr. Date 12-21-48
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F.B. No 3a 201

F.B/1503 PG. 202

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

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by Kleineck Notes E.T.M. Jr. 12-21-48 Notes Chkd. _____ Checked _____ X-Sec.

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

Cut-in
496+00 (N) Contd.
Out 299 on Range Line

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On 484+ N-43 3854 N	#	Color	Time	Hor. Ang.		Remarks
	21	R	1 10	136 00		Range Line 496+00 Cont. from Preceding page
	22	Y		132 25		
	23	B		130 40		
	24	Y		129 15		
	25	B		126 10		
	26	R	1 19	124 00		
	27	Y		122 55		
	28	R		122 25		

FORM 30 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Profile No. ____ Date ____ Notes Red M.K. Plotted ____ Job No. 5412 Division No. 1
X-Sec. ____ Date 1-5-49 Date ____ Checked ____ Survey of Beach Erosion Survey by Lewis & Norris Notes RJM Date 12-14-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Jackman Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~12:40~~	5.9 4.1	4 7	50	-0.3	Range Line 496+00 (N)
2	Y	11:40	6.5 5.7	6 0	50	1.0	
3	B		7.1 6.5	6 7	50	1.7	
4	Y		8.8 7.0	~~7~~ 6 8	50	2.6	
5	B		7.9 7.2	7 4	50	2.4	
6	R	~~12:46~~	8.6 8.0	8 2	50	3.2	Probably large rock in
7	Y	11:46	10.3 8.5	9 1	50	4.1	this area
8	B		10.7 10.1	10 3	50	5.3	
9	Y		12.5 11.2	11 6	50	6.6	
10	B		12.6 11.0	12 2	50	7.2	
11	R	~~12:55~~	14.9 13.2	13 8	51	8.7	
12	Y	11:55	15.3 14.0	14 4	51	9.3	
13	B		16.2 15.2	15 5	51	10.4	
14	Y		17.7 15.9	16 5	51	11.4	
15	B		18.4 17.2	17 6	51	12.5	
16	R	~~1:03~~	17.9 17.5	17 6	51	12.5	
17	Y	12:03	19.6 19.0	19 2	51	14.1	
18	B		20.5 19.8	20 0	51	14.9	
19	Y		23.0 21.0	21 7	51	16.6	
20	B		24.5 23.8	23 5	51	18.4	(Cont'd on next page)

496+00 (N)
Est.

F.B. 1093a 203

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.		
# Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj.	Depth	Remarks
21	R	~~1 12~~	24.5 23.5	23.8	51	18.7	Range Line 496+00 N (Contd)
22	Y	12:12	25.7 24.5	24.9	51	19.8	
23	B		26.3 25.5	25.8	51	20.7	Probably large rock in this area
24	Y		28.3 27.3	27.6	51	22.5	
25	B		28.8 27.9	28.2	51	23.1	
26	R	~~1 19~~	29.4 28.5	28.8	51	23.7	
27	Y	12:19	30.4 29.4	29.7	51	24.6	
28	B	~~1 24~~ 12:24	30.5 29.7	30.0	51	24.9	Last sounding

Boat: 496+00 (N) Contd.

F.B. 4503 PG. 204 Job No. 8412 Division No. V Notes Red. M.E. Plotted ___ No. ___ Profile
Survey of Beach Erosion Date 1-5-49 Date ___ X-Sec.
Survey by Kleineck Notes RJM 12/21/48 Notes Chkd. ___ Checked ___ No. ___
Indexed C. Johnson Date ___ Date ___

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
500	500	1	R	1:40	180°15'	RANGE LINE ∡ = 90°	
+	+	2	Y		180°30'		
00	00	3	B		180°30'		
(N)	(N)	4	Y		179°55'		
		5	B		179°55'		
		6	R	1:46	180°20'		
		7	Y		180°15'		
		8	B		180°25'		
		9	Y		180°05'		
		10	B		180°25'		
		11	R	1:52	180°00'		
		12	Y		180°50'		
		13	B		180°15'		
		14	Y		180°10'		
		15	B		180°15'		
		16	R	1:56	180°20'		
		17	Y		180°00'		
		18	B		180°25'		

OUT 250' ON RANGE LINE.

ON BASE LINE.

Range

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ P.B. [illegible] No. 200

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

Notes Chkd. ____ Checked ____ Survey by KLEINECK Note D.H.R. Date 12-21-48

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
505 + 74.68 (N)	505 + 74.68 (N)	1	R	2:10	179°45'	RANGE LINE ∡ = 101°05' from South. (ON LINE OF GROIN)
		2	Y		179°50'	
		3	B		179°45'	
		4	Y		179°30'	
		5	B		180°00'	
		6	R	2:14	180°40'	
		7	Y		180°35'	
		8	B		180°30'	
		9	Y		180°40'	
		10	B		180°10'	
		11	R	2:18	180°45'	
		12	Y		180°30'	
		13	B		179°40'	
		14	Y		180°15'	
		15	B		181°00'	
		16	R	2:24	180°45'	
		17	Y		180°25'	
		18	B		180°15'	
		19	Y		180°40'	
		20	B		180°20'	
		21	R	2:36	180°40	

ON BASE LINE

OUT 190' ON RANGE LINE

Line of Groin 505+74.68(N)

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd Date

Job No. 8412 Division No.

Survey of BEACH EROSION

Survey by KLEINECK Notes HHR 12-21-48

Indexed C. Jenness Date

Range

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
484+38.54 (N)	N43	1	R	1:39	135 30	Range Line 500+00 (N)
		2	Y		136 50	
		3	B		138 30	
		4	Y		140 40	
		5	B		143 05	
		6	R	1:45	146 05	
		7	Y		149 20	
		8	B		152 40	
		9	Y		155 35	
		10	B		157 45	
		11	R	1:51	160 35	
		12	Y		162 10	
		13	B		164 35	
		14	Y		167 00	
		15	B		169 10	
		16	R	1:56	172 00	
		17	Y		173 05	
		18	B		174 40	

Out 299 on Range Line

Cut-in 500+00 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 4503 Pg. 207
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinrock Notes E.T.M.Jr. Date 12-21-48
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 484+38.54(N)	Sight On N-43	#	Color	Time	Hor. Ang.	Remarks	
		1	R	2 09	180 30	Range Line 505+74.68(N)	
		2	Y		179 30	(Line of Groin)	
		3	B		178 45		
		4	Y		178 05		
		5	B		177 10		
		6	R	2 13	176 20		
		7	Y		175 10		
		8	B		174 20		
		9	Y		173 20		
		10	B		172 25		
		11	R	2:17	170 35		
		12	Y		168 45		
		13	B		166 05		
		14	Y		164 10		
		15	B		162 50		
		16	R	2:23	160 25		
		17	Y		157 55		
		18	B		155 45	# Co. time Hor Ang.	
		19	Y		152 00	21 R 2 35 143 50	
		20	B		149 25	~~Con't on next Page~~	

Cut-N 505+74.68(N) Out 299 On Range Line

Profile
Plotted No.
Date
X-Sec.
Checked No.
Date
Notes Red
Date
Notes Chkd
Date
Division No.
Job No. 8412
Survey of Beach Erosion
Survey by Kleineck
Notes E.T.M. Jr. 12-21-48
Indexed C. Johnson
Date
F.B. No. 209 PG. 208

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____
Notes Red Ty. TX. Date 1-5-49. Plotted ____ Date ____
Notes Chkd ____ Date ____ Checked ____ Date ____
Job No. 8412 Division No. 1
Survey of Beach Erosion
Survey by Kennedy Notes RTM Date 12/21/48
Map No. ____ Indexed ____ Date ____

F.B. 1069 p. 28

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~1:41~~	30.5 29.9	30 1✓	51	25.0	Range Line 500+00 (N)
2	Y	12:41	30.2 28.9	29 3✓	51	24.2	
3	B		29.3 28.0	28 4✓	51	23.3	
4	Y		28.0 27.0	27 3✓	51	22.2	
5	B		27.8 25.4	26 2✓	51	21.1	
6	R	~~1:47~~	26.3 24.5	25 1✓	50	20.1	
7	Y	12:47	24.5 22.9	23 4✓	50	18.4	
8	B		23.3 21.3	22 0✓	50	17.0	
9	Y		20.5 19.5	19 8✓	50	14.8	
10	B		19.3 18.0	18 4✓	50	13.4	
11	R	~~1:53~~	18.0 16.3	16 9✓	50	11.9	Probably Large Rock in this area
12	Y	12:53	18.0 15.6	16 4✓	50	11.4	
13	B		16.5 14.5	15 2✓	50	10.2	
14	Y		14.8 13.1	13 7✓	50	8.7	
15	B		14.0 11.5	12 3✓	50	7.3	
16	R	~~1:57~~	11.2 9.5	10 1✓	50	5.1	
17	Y	12:57	9.0 7.8	8 2✓	50	3.2	
18	B	~~2:00~~	8.8 6.4	7 2✓	50	2.2	Last shot
19	Y	1:00					
~~20~~	~~B~~						

Boat Entry 500+00 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Notes Red M. J. Plotted Date 1-5-49 Date Checked Date

Notes Chkd Date

Job No. 8412 Division No. 1 Notes PUH 1 Date

Survey of Beach Erosion

Survey by Kenneth C. Johnson Date

Indexed

F.B. 1103 PG. 210

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~1:10~~	6.5 5.3	5.7	49	0.8	Range Line 505+74.68 (N)
2	Y	1:10	8.0 5.9	6.6	49	1.7	
3	B		8.8 7.2	7.7	49	2.8	
4	Y		10.0 8.3	8.9	49	4.0	
5	B		11.5 10.0	10.5	49	5.6	
6	R	~~1:14~~	13.4 11.8	12.3	49	7.4	
7	Y	1:14	16.5 13.5	14.5	49	9.6	
8	B		16.8 14.8	15.5	49	10.6	
9	Y		18.0 15.9	16.6	49	11.7	
10	B		18.5 16.7	17.1	49	12.2	
11	R	~~1:18~~	18.9 17.8	18.2	49	13.3	Probably Large Rock in This Area
12	Y	1:18	18.6 18.0	18.2	49	13.3	
13	B		20.8 19.4	19.9	49	15.0	
14	Y		23.0 21.0	21.7	49	16.8	
15	B		23.7 22.0	22.6	49	17.7	
16	R	~~1:25~~	24.0 22.5	23.0	49	18.1	Boat 505+74.68 (N)
17	Y	1:25	25.3 24.0	24.4	49	19.5	
18	B		26.6 25.0	25.5	49	20.6	
19	Y		28.0 26.1	26.7	49	21.8	
20	B	1:34	28.5 27.5	27.8	49	22.9	
21	R	~~1:34~~	29.1 31.4	29.9	49	25.0	

FORM 207 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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	
510	510	1	R	9:25	179°40'	Range Line ∠ = 94° 50'	
+	+	2	Y		179°55'	FROM SOUTH	
07 65	07 65	3	B		180°35'		
(N)	(N)	4	Y		180°40'		
		5	B		180°05'		
		6	R	9:30	179°50'		
		7	Y		179°35'		
		8	B		180°00'		
		9	Y		180°05'		
		10	B		179°50'		
		11	R	9:34	179°30'		
		12	Y		180°05'		
		13	B		180°10'		
		14	Y		180°00'		
		15	B		180°10'		
		16	R	9:41	180°00'		
		17	Y		180°05'		
		18	B		179°55'		
		19	Y		179°55'		

Line of Groin
OUT 130 ON RANGE LINE
ON BASE LINE

Range
510+07 65 (N)

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey in [illegible] HAR
No. ____ Date ____ Date ____ Map No. ____ Inspector ____ Date ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
516	516	1	R	9:54	180° 10'	RANGE LINE ∡ = 90°
+	+	2	Y		180° 45'	
00	00	3	(~~B~~) Y		180° 05'	
(N)	(N)	4	Y (~~B~~)		180° 05'	
		5	B		180° 05'	
		6	R	10:03	180° 05'	
		7	Y		180° 20'	
		8	B		180° 20'	
		9	Y		181° 25'	
		10	B		179° 35'	
		11	R	10:10	179° 50'	
		12	Y		181° 05'	
		13	B		181° 10'	
		14	Y		180° 05'	
		15	B		179° 55'	
		16	R	10:15	179° 55'	
		17	Y		180° 00'	
		18	B		180° 00'	
		19	Y		179° 45'	

ON BASE LINE.

OUT 80' ON RANGE LINE.

Range 516+00 (N)

Job No. 842 Division No. ____ Notes Red ____ Plotted ____ Profile ____
Survey of BEACH EROSION Date ____ Date ____ No. ____
Survey by KLEINECK Notes HHR 12-22-48 Notes Chkd ____ Checked ____ X-Sec. ____
Indexed A. C. Jobson Date ____ Date ____ No. ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
500+00	500	1	R	9 25	257	10		Range Line 510+07 [illegible](N)
	+00	2	Y		256	10		(Line of Groin)
		3	B		254	50		
		4	Y		253	50		(RAIN)
		5	B		251	50		
		6	R	9 27	250	05		
		7	Y		247	40		
		8	B		244	55		
		9	Y		241	45		
		10	B		236	30		
		11	R	9 34	231	20		
		12	Y		226	00		
		13	B		222	40		
		14	Y		219	25		
		15	B		212	55		
		16	R	9 40	210	15		
		17	Y		207	40		
		18	B		204	20		
		19	Y		201	55		
		20						

Out 250' on Range Line

At Base Line

Cut-in 510+07 [illegible](N)

Profile Notes Red ____ Plotted ____ Job No. 1412 Division No. ____

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

X-Sec. Notes Chkd ____ Checked ____ Survey by Kleiner Notes J.W.S.M. Date 12-22-48

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

F.B. 1503 Pg. 213

FORM 302 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	
500	500	1	R	9.54	20[illegible] 00	Range Line 516+00(N)	
400	400	2	Y		21[illegible] 05	Coming In	
		3	(Y)		21[illegible] 45		
		4	Y		218 10		
		5	[illegible]		221 45		
			R	10.03	224 40		
			Y		227 50		
			[illegible]		234 00		
			[illegible]		237 45		
		10	[illegible]		242 10		
		11	R	10.10	245 [illegible]		
		12	[illegible]		245 [illegible]		
		13	[illegible]		250 [illegible]		
		14	[illegible]		252 00		
		15	R		253 40		
		16	R	10.14	255 [illegible]		
		17	Y		257 45		
		18	[illegible]		258 25		
		19	Y		259 40		

Out 250' on Single Line

At Base Line

Cut in 516+00(N)

F.B. 1503 PG. 214

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

Survey of Beach Lagoon Date Date X-Sec.

Survey by Kennedy Notes S.W.O. 12-22-48 Notes Chkd Checked

Indexed A. C. Johnson Date Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~7:24~~	6.4 5.0	55 ✓	28	2.7	P7 65
2	Y	8:24	6.7 5.7	60 ✓	28	3.2	R.L. 510 + ~~00~~ (N)
3	B		7.3 6.3	66 ✓	28	3.8	(Line of Grain)
4	Y		8.5 7.5	75 ✓	28	4.7	
5	B		9.8 8.8	93 ✓	28	6.5	(RAIN)
6	R	~~8:28~~	12.0 10.9	113 ✓	28	8.5	
7	Y	8:28	14.7 12.4	132 ✓	28	10.4	
8	B		14.8 13.8	141 ✓	28	11.3	
9	Y		16.8 15.8	156 ✓	28	12.8	
10	B		18.0 16.0	167 ✓	28	13.9	
11	R	~~8:33~~	19.4 17.6	180 ✓	28	15.2	
12	Y	8:33	19.6 19.1	192 ✓	28	16.4	
13	B		21.1 20.4	204 ✓	28	17.6	
14	Y		23.4 21.9	224 ✓	28	19.6	
15	B		24.7 23.2	237 ✓	28	20.9	
16	R	~~8:39~~	26.1 24.3	249 ✓	28	22.1	
17	Y	8:39	26.8 25.8	257 ✓	28	22.9	
18	B		27.8 26.4	269 ✓	28	24.1	
19	Y		29.4 27.4	279 ✓	28	25.1	

570 + 07 (N)

Profile No. ____ X-Sec. ____ Notes Red ____ Date 1-5-49 Plotted ____ Job No. 5442 Division No. ____
Notes Blk. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by ____ Date 1-12-48
Map No. ____ Indexed ____ Date ____

F.B. 1073 Pg. 28

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. 1033 PG. 216 | Job No. 8476 | Division No. | Notes Red. M.E. | Date 1-5-49 | Plotted | Date | No. | Profile
Survey of Beach Erosion | Notes Chkd. | Checked | X-Sec.
Survey by Hancock | Notes | Date | Date
Indexed C. Jaime | Date | Date | No.

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
				300				
1	R		~~8:53~~	290	293 ✓	28	26.5	Range Line 516+00 (N)
				290				
2	Y		8:53	275	280 ✓	28	25.2	
				280				
3	~~B~~ Y			261	267 ✓	28	23.9	
				270				
4	Y			250	257 ✓	28	22.9	
				255				
5	B			235	242 ✓	28	21.4	
				240				
6	R		~~9:02~~	222	228 ✓	29	19.9	
				230				
7	Y		9:02	215	220 ✓	29	19.1	
				223				
8	B			203	210 ✓	29	18.1	
				200				
9	Y			182	188 ✓	29	15.9	
				180				
10	B			170	173 ✓	29	14.4	
				165				
11	R		~~9:08~~	155	158 ✓	29	12.9	
				150				
12	Y		9:08	140	143 ✓	29	11.4	
				140				
13	B			130	136 ✓	29	10.7	
				130				
14	Y			120	123 ✓	29	9.4	
				140				
15	B			105	118 ✓	29	8.9	
				110				
16	R		~~9:14~~	100	103 ✓	29	7.4	Boat 516+00 (N)
				85				
17	Y		9:14	85	85 ✓	29	5.6	
				85				
18	B			70	75 ✓	29	4.6	
				60				
19	Y			50	61 ✓	29	3.2	

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
520	520	1	R	10:33	178°50'	RANGE LINE ∡ = 90°
+	+	2	Y		180°20'	
00	00	3	B		180°40'	
(N)	(N)	4	Y		180°25'	
		5	B		180°05'	
		6	R	10:38	180°00'	
		7	Y		180°10'	
		8	B		180°10'	
		~~9~~	~~Y~~		~~179°55'~~ Out	
		10	B		180°20'	
		11	R	10:41	180°35'	
		12	Y		179°50'	
		13	B		181°35'	
		14	Y		180°25'	
		15	B		180°30'	
		16	R	10:45	180°10'	
		17	Y		180°20'	
		18	B		181°00'	
		19	Y		180°45'	
		20	B		180°15'	

OUT 80' ON RANGE LINE

ON BASE LINE

Range 520+00 (N)

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. N503a. 217

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

Notes Chkd. ____ Checked ____ Survey by KLEINECK Notes H.H.B. Date 2-22-48

Date ____ Date ____ Map No. ____ Indexed 4 S. Job Name Date ____

F.B. 1503 PG. 218

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. _____

FORM 503 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
500+00	500	1	R	10 32	260	25	Range Line	520+00
	+00	2	Y		259	55		
		3	B		259	25		
		4	Y		258	25		
		5	B		256	20		
		6	R	10 36	256	00		
		7	Y		254	40		
		8	B		253	30		
		9	Y				Out	
		10	B		249	45		
		11	R	10 41	248	20		
		12	Y		246	30		
		13	B		244	40		
		14	Y		241	50		
		15	B		239	40		
		16	R	10 45	234	20		
		17	Y		231	05		
		18	B		227	00		
		19	Y		222	00		
		20	B		217	40	This is it	

Out 250' On Range Line

At Base Line

Profile Notes Red ____ Plotted ____ Job No. 5412 Division No. ____ F.B. [illegible]

No. ____ Date ____ Date ____ Survey of Beach Erosion

X-Sec. Notes Chkd. ____ Checked ____ Survey by Klaynock Notes J.W.S.M. Date 12-22-48

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

Cut in 520+00 (N)

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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	

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd Date

Division No. Notes Date

Job No. Survey of Survey by Indexed

F.B. 4503 PG. 220

FORM 307 10M-10-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	~~10 32~~	7.0 / 5.0	~~5.7~~ ~~5.3~~	30	2.7	Range Line 520+00 (N)
2	Y	9:32	7.2 / 6.0	6.4	30	3.4	
3	B		8.5 / 7.9	8.1	30	5.1	
4	Y		10.0 / 9.0	9.3	30	6.3	
5	B		11.1 / 10.0	10.4	30	7.4	
6	R	~~10 36~~	13.0 / 11.9	12.9	30	9.3	
7	Y	9:36	12.3 / 10.0	10.8	31	7.7	
8	B		12.5 / 11.5	11.8	31	8.7	
9	~~Y~~		~~14.4 / 13.2~~	~~14.0~~	Out.		
10	B		15.4 / 14.4	14.7	31	11.6	
11	R	~~10 39~~	17.1 / 15.8	16.2	31	13.1	
12	Y	9:39	17.8 / 16.1	16.7	31	13.6	
13	B		19.7 / 18.1	18.6	31	15.5	
14	Y		21.0 / 19.7	20.1	31	17.0	
15	B		21.9 / 20.7	[illegible]	31	18.0	
16	R	~~10 44~~	23.1 / 22.5	22.7	31	19.6	
17	Y	9:44	24.8 / 23.4	23.6	31	20.5	
18	B		26.0 / 24.1	25.1	31	22.2	
19	Y		27.8 / 26.5	[illegible]	31	[illegible]	
20	B		28.0 / 28.0	[illegible]	31	25.2	

Profile No. 1 X Sec. Notes Red M. X. Plotted Date 1-5-49 Job No. [illegible] Date Checked Date Map No. [illegible]

Notes Chkd Date

No. Date

520+00 (N)

07 10M 10-46

Profile

Notes Red ____ Plotted ____
Date ____ Date ____
Notes Chkd ____ Checked ____
Date ____ Date ____

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