Rod ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ FB. 128 Pg. 1
Date 1947 Survey of Beach Erosion
Chkd. ____ Checked ____ Survey by Kleineck Notes ____ Date ____
Date ____ Map No. ____ Indexed ____ Date ____

BEACH EROSION SURVEY

SANTA MONICA HARBOR ~ TOPANGA CANYON AREA

Base Line Sta's., 416+48.46(N) TO 685+00(N) (This book)

J.N. 8412

Work Started:- July 5, 1946.
" Finished:- Jan. 10, 1947.

G. W. Kleineck
H. Gunderson
J. W. S. Moore
R. Anderson
R. Hobson
H. R. Stock
J. Gregory
G. O. Harris
R. Mitchell
S. Dickie
L. De Tilla
D. Sappell
- Brown
D. La Gault
A. C. Stangeland
W. Van Deren
C. W. Wallace.

Microfilmed Feb, '88

FORM 307 2M 11-41

FB 1289 PG. 2. Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

FORM 307 2M 11-41

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

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1289 PG. 3

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

Notes Chkd. _____ Checked _____ Survey by Kleineck 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 5M 1-46

F.B. 1289 PG. 4 | Job No. 8412 Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1.46

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.

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

Profile No. _____ Notes Red. _____ Plotted H.U.M.H. Job No. 8412 Division No. _____ F.B. 1259 G. 5

Date _____ Date 1947. Survey of Beach Erosion

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

Date _____ Date _____ Map No. _____ Indexed ALBERT E. TIMMONS Date 1-7-47

~ CROSS REFERENCES ~

SHORE SECTIONS RUN BY L.A. CITY

For range lines 266+00(N) to 378+87.46(N), incl., see L.A. City F.B. # 20714.

For range lines 381+38.65(N) to 525+38(N), incl., see L.A. City F.B. # 20716.

For range lines 530+00(N) to 685+00(N), incl. See L.A. City F.B. # 20717

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

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

FORM 307 5M 1-46

F.B. 1284 PG. 6

Job No. 8412 Division No. _____ Notes Red _____ Plotted H. U. M. H. _____ Profile No. _____

Survey of Beach Erosion Date _____ Date _____

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

Indexed ALBERT T. TIMMONS Date _____ Date _____ Date _____ No. _____

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

FORM 307 5M 1-46

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

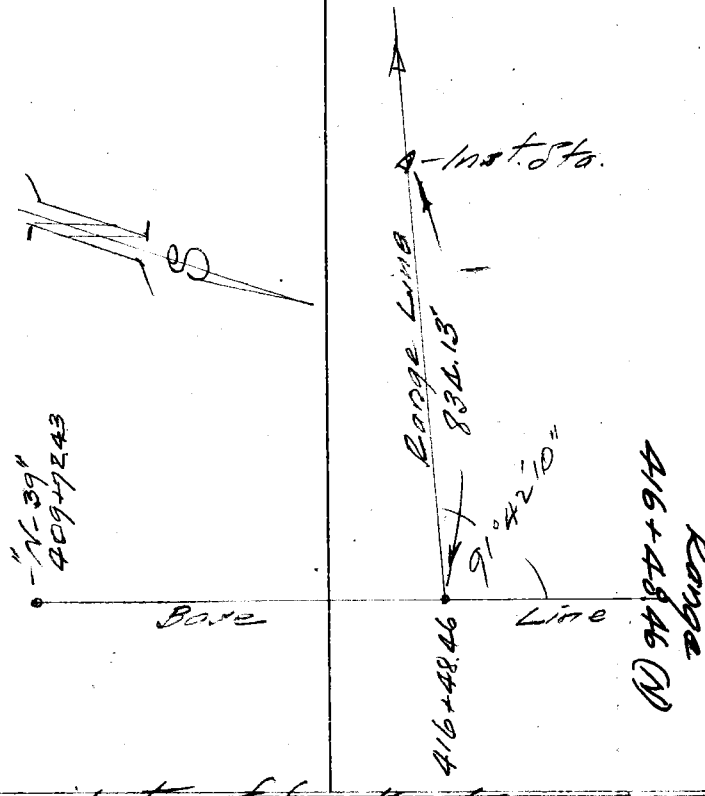
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chkd ____ Date ____ Plotted H.U.M.H. Date ____ Checked ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion 1946 Survey by Hammond Notes Eult. Date 11-27-46 Map No. ____ Indexed LEBERT E. HAMMOND Date ____

F.B. 7889 PG. 7

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
416 + 48.46	416 + 48.46	1	R	1003	180000	Range Line ∡ = 180° at inst. sta.	
834.13'	at base	2	Y		179.50		
out	line	3	W		179.45		
on		4	Y		179.55		
range		5	W		179.25		
line.		6	R	1010	180.20		
		7	Y		180.05		
		8	W		179.40		
		9	Y		179.50		
		10	W		179.55		
		11	R	1017	179.45		
		12	Y		179.55		
		13	W		179.45		
		14	Y		180.15		
		15	W		179.55		
		16	R	1026	180.05		
		17	Y		179.20		
		18	W		179.50		
		19	Y		179.50		
		20	W		179.50		
		21	R	1036	179.45	— Inside toe of breakwater.	



F.B. 1289 PG. 8 | Job No. 8412 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of Beach Erosion | Date | Date 1947 | No.

Survey by Klemeck | Notes GWK 11-27-'46 | Notes Chkd. | Checked | X-Sec.

Indexed ALBERT E. TIMMONS | Date | Date | Date | No.

FORM 307 5M 1-46

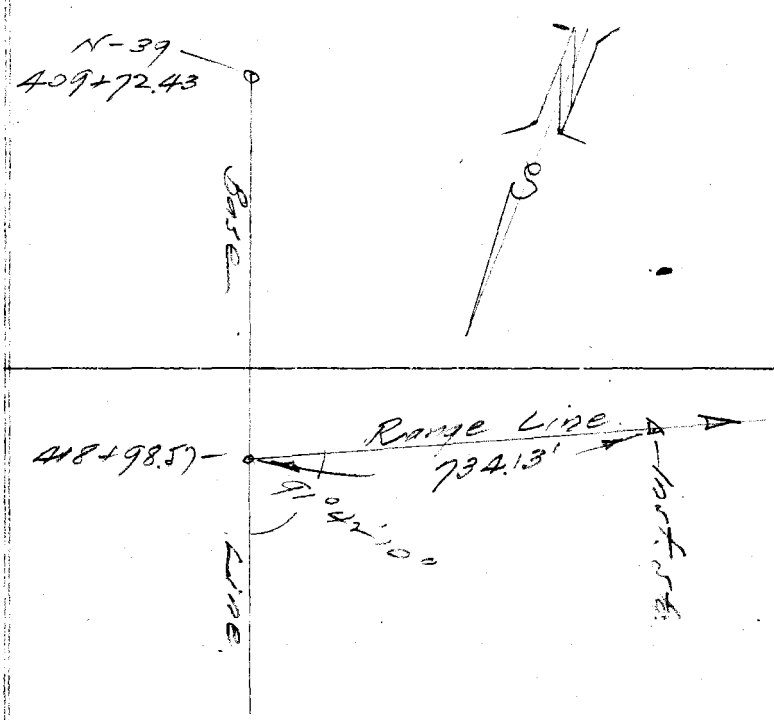
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Range
418+98.57 (N)

STATION Inst. Sight At	On	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
418+98.57	418+98.57	1	R	10 45	180	Range Line ∡ = 180° at inst. sta.
734.13'	of	2	Y		180 10	Inside toe of breakwater
out	base	3	W		180 10	
on	line	4	Y		180 10	
range		5	W		180 5	
line		6	R	10 58	179 10	
		7	Y		180 00	
		8	W		179 10	
		9	Y		180 00	
		10	W		180 00	
		11	R	11 02	179 05	
		12	Y		179 00	
		13	W		179 50	
		14	Y		180 00	
		15	W		180 00	
		16	R	11 07	180 05	
		17	Y		180 00	
		18	W		180 00	
		19	Y		181 50	



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	
C B	1	R	10:02	288-20	Range Line	416+48.46
	2	Y		287 15		
	3	W		285 05		
	4	Y		281 45		
	5	W		278 35		
	6	R	10:09	273 55		
	7	Y		271 40		
	8	W		269 50		
	9	Y		269 00		
	10	W		267 40		
	11	R	10:16	267 00		
	12	Y		265 25		
	13	W		262 30		
	14	Y		260 30		
	15	W		255 50		
	16	R	10:25	250 35		
	17	Y		247 05		
	18	W		240 50		
	19	Y		238 20		
	20	W		235 20		
	21	R	10:35	232 55	inside Toe breakwater	

See sketch pg. 253 - F.B. 1288.

Cut in. 416+48.46 (N)

Profile No. ____ Date ____ Notes Red. ____ Plotted H.U.M.H. Job No. 842 Division No. ____ Date ____ 1946 Survey of Beach Erosion

X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Hemeck Notes CWW. Date 11-27-'46

Map No. ____ Date ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 9

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
C	B	1	R	10 44	23[illegible] 25	Range Line 418+98.57
		2	Y		2[illegible] 5	→ Inside Toe of breakwater
		3	W		24[illegible]	
		4	Y		25[illegible] 5	
		5	W		251 5	
		6	R	10 57	26[illegible] 10	
		7	Y		261 10	
		8	W		269 50	
		9	Y		271-10	
		10	W		272-50	
		11	R	11:03	275-20	
		12	Y		277-35	
		13	W		279-55	
		14	Y		28[illegible] 55	
		15	W		283-10	
		16	R	11:36	284 10	
		17	Y		285 5	
		18	W		28[illegible] 5	
		19	Y		[illegible]	

See sketch pg.

Cut in. 418+98.57 (N)

F.B. 1289 Pg. 10 Job No. 8412 Division No. Notes Red. Date Plotted H.U.M.H. Date 1947 No. Profile

Survey of Beach Erosion Date X-Sec.

Survey by Meneck Notes Cwu 11-27-'46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1		10:02	[illegible]	3.3	5.7	+2.4	RANGE 416+48.46 (N)
2			[illegible]	4.3		+1.4	GOING OUT
3			[illegible]	5.3		+0.4	Inside toe of break-water.
4			[illegible]	6.7		-1.0	
5			[illegible]	8.7		-3.0	
		[illegible]	[illegible]	10.5	5.7	-4.8	
			[illegible]	11.8		6.1	
			[illegible]	12.8		7.1	
			[illegible]	14.4		8.7	
			[illegible]	16.8		11.1	
		[illegible]	[illegible]	18.0	5.7	12.3	
			[illegible]	19.6		13.9	
			[illegible]	21.7		16.0	
			[illegible]	23.2		17.5	
			[illegible]	24.7		19.0	
		[illegible]	[illegible]	25.3	5.6	19.7	
			[illegible]	27.4		21.8	
			[illegible]	28.6		23.6	
			[illegible]	30.1		24.5	
			[illegible]	30.7		25.1	
[illegible]		[illegible]	[illegible]	28.8		23.2	Inside toe of breakwater.

Boat. 416+48.46 (N)

Profile Notes Red HF Plotted H.U.M.H. Job No. 84-2 Division No.
No. Date 12-19-46 Date 1946 Survey of [illegible]
X-Sec. Notes Chkd. [illegible] Checked Survey by [illegible] Notes [illegible] Date 11-27-46
No. Date 12-30-46 Date Map No. Indexed ALBERT E. TIMMONS Date

F.B. 1289 PG. 11

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 #	Color	B. S. Time	Meas. Depth	F. S. Botom	Ht. Tide	Adj. Depth	Remarks
[illegible]	[illegible]	[illegible]	28.5-[illegible]	28 6	5 6	23.0	[illegible] 418+98.57 [illegible]
[illegible]			30.1-31.0	30 4		24.6	
[illegible]	[illegible]		[illegible]	29 3		23.7	Inside toe of break-water.
4	[illegible]		[illegible]	28 0		22.4	
5	[illegible]		26-26.7	26 2		20.6	
6	[illegible]	10:58	24.1-24.9	24 4	5.5	18.9	
[illegible]	[illegible]		22-22.5	22 2		16.7	
[illegible]	W		19.4-19.7	19 5		14.0	
[illegible]	[illegible]		17-17.8	17 3		11.8	
18	[illegible]		15-15.8	15 3		9.8	
[illegible]	R	11:02	13-13.8	13 3	5.5	7.8	
[illegible]	[illegible]		11.5-12.4	11 8		6.3	
[illegible]	[illegible]		10.4-11	10 6		5.1	
[illegible]	[illegible]		9.3-10	9 5		4.0	
[illegible]	[illegible]		7.9-8.9	8 3		2.8	
[illegible]	[illegible]	11:06	6.6-7.3	6 8	5.4	1.4	
17	Y		5-6.4	5 5		+0.1	
[illegible]	W		4.2-5.0	4 5		+0.9	
[illegible]	Y		3.2-4.0	3 5		+1.9	END OF LINE.

Boat. 418+98.57 (N)

F.B. 1289 PG. 12

Job No. 8412 Division No. Notes Red. HE Plotted H.U.M.H. Profile

Survey of [illegible] Date 12-19-46 Date 1947 No. X-Sec.

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

Indexed ALBERT E. TIMMONS Date [illegible] Date [illegible] No.

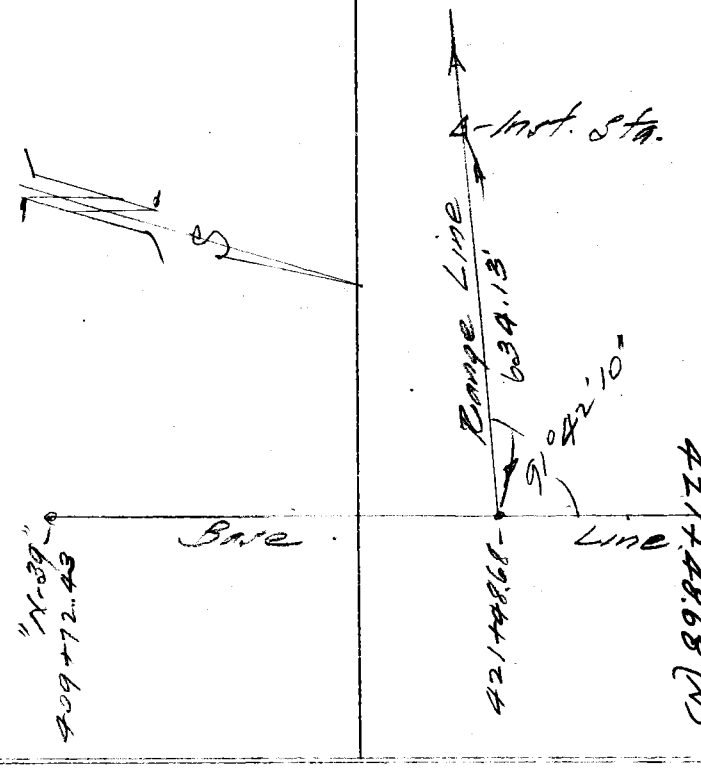
FORM 307 5M 1-46

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
421	421	1	R	11 36	180 15	Range Line ∡ = 180° at inst. sta.
+48.68	+48.68	2	Y		179 20	Inside toe of breakwater.
634.13'	at	3	W		180 25	
out	base	4	Y		179 00	
on	line	5	W		180 00	
range		6	R	11 50	179 25	
line		7	Y		179 45	
		8	W		180 05	
		9	Y		179 45	
		10	W		180 20	
		11	R	11 54	180 10	
		12	Y		180 00	
		13	W		179 55	
		14	Y		180 20	
		15	W		180 40	
		16	R	11 59	180 15	
		17	Y		180 40	
		18	W		180 20	
		19	Y		179 00	
		20	W		180 20	



Profile No. ____ Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 13
Date ____ Date ____ 1946 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Meineck Notes Gulk Date 11-27-46
Date ____ Date ____ Map No. ____ Indexed ALBERT S. TIMMONS 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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
411+48.24 800' W	411+48.24 at base line	1	R	12 27	143 00	off w. end of pier. Range line 404 + 10.94 abng N. edge of Santa Monica Pier.
		2	Y		14[illegible]	
		3	W		14[illegible]	
		4	Y		151 05	
		5	W		151 45	
		6	R	12 37	152 20	Inside toe of break water
		7	Y		153 45	outside toe of Breakwater
		8	W		155 00	
		9	Y?		156 30	End of Line

Copied
[illegible]

F.B. 1289 PG. 14

Job No. ____ Division No. ____ Notes Red. ____ Plotted H.U.M.H. Date 1947 No. ____ Profile

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

Survey by ____ Notes ____ Date ____ Date ____ No. ____

Indexed ALBERT E. TIMMONS

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	
C B	1	R	11:35	242 25	Range Line 421+48.68	
	2	[illegible]		248 10	Inside toe of breakwater	
	3	W		[illegible]		
	4	[illegible]		259 40		
	5	W		257 30		
	6	R	11 49	261 45		
	7	Y		264 10		
	8	W		267 30		
	9	Y		[illegible]		
	10	W		271 20		
	11	R	11 54	272 30		
	12	Y		273 30		
	13	W		275 30		
	14	Y		277 30		
	15	W		279 15		
	16	R	11 58	281 20		
	17	Y		283 05		
	18	W		285 05		
	19	Y		286 45		
	20	W		289 05		

See sketch pg.

Cut in. 421+48.68 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 847 Division No. ____ F.B. 1284 Pg. 15
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Date ____ Survey of Beach Erosion 1946 Survey by Newman Notes CWW Date 11-27-'46
Map No. ____ Date ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 16

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H U M H

Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Kleineck Notes _____ Notes Chkd. _____ Checked _____

X-Sec.

Indexed ALBERT E. TIMMONS 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 On	#	Color	Time	Hor. Ang.		Remarks

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 #	Colo.	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11:35	29-30	29.3	5.1	24.2	RANGE 421+48.68 (N)
2	Y		29.4-32	30.3		25.2	GOING IN
3	W		28.6-30.4	29.2		24.1	Inside toe of break-water
4	Y		27.3-29.3	28.0		~~23.9~~	
5	W		26.3-28.6	27.1		22.0	
6	R	11:48	25.2-27.2	25.9	5.0	20.9	
7	Y		24.2-26.1	24.8		19.8	
8	W		23.1-25.0	23.7		18.7	
9	Y		22.1-24.1	22.8		17.8	
10	W		21.1-23.1	21.8		16.8	
11	R	11:53	20-22	20.7	4.9	15.8	
12	Y		19-20.8	19.6		14.7	
13	W		17-18.9	17.6		12.7	
14	Y		15.1-16.9	15.7		10.8	
15	W		13.1-15.2	13.8		8.9	
16	R	11:57	11.5-13.9	12.3	4.8	7.5	
17	Y		9-11.8	9.9		5.1	
18	W		6.9-9.3	7.6		2.8	
19	Y		5-7	5.7		~~0.5~~ 0.9	
20	W		4-6	4.7		~~+0.5~~ +0.1	End of line.

Boat.
421+48.68 (N)

Profile
No. ____ Notes Red LE Plotted H.U.M.H. Job No. 2412 Division No. ____
Date 12-19-46 Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by [illegible] Notes D.S. Date 11-27-46
No. ____ Date 12-30-46 Date ____ Map No. ____ Indexed ALBERT B. TIMMONS Date ____

F.B. 1289 PG. 17

F.B. 289 PG. 18

Job No. 5412 Division No. _____ Notes Red. [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 12-19-46 Date 1947 No. _____

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

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

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.

STATION	B.S.	F.S.	ELEV.		
Color	Time	Depth	Botom	Tide	Adj. Depth	Remarks

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
406+44.02	406+44.02	1	R	804	180 05	Range Line ∡ = 180° at inst. sta. 700
		2	Y		180 05	
700' out	at	3	W		180 15	
on	base	4	Y		180 00	
range line	line	5	W		180 00	
408+98.13	408+98.13	1	R.	816	180 25	Range Line ∡ = 180° at inst. sta.
834.13'		2	Y		180 25	
out	at	3	W		180 20	
on range	base					
line	line					
411+48.24	411+48.24	1	R	828	179 50	Range Line ∡ = 180° at inst. sta.
834.13' out	at	2	Y		179 45	
on range	base	3	W		179 50	
line	line					
413+98.35	413+98.35	1	R	835	179 15	Range Line ∡ = 180° at inst. sta.
834.13' out	at	2	Y		179 30	
on range	base	3	W		179 30	
line	line	4				

Range.
406+44.02 — 408+98.13 — 411+48.24 —
413+98.35 (Outside Santa Monica Brook Water.)

Profile Notes Red ____ Plotted H. U. M. H. Job No. ____ Division No. ____ F.B. 1289 Pg. 19
No. ____ Date ____ Date 1947 Survey of Beach Erasion
X Sec. Notes Chkd. ____ Checked ____ Survey by Meineck Notes Gulk Date 11-27-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
416 +48.46 834.13' out on range line	416 +48.46 at base line	1	R	845	17[illegible]	Range Line ∡ = 180° at inst. sta.
		2	Y		18[illegible]5	
		3	W		18[illegible]5	
418+ 98.57 734.13' out on range line	418+ 98.57 at base line	1	R	856	18[illegible]0	Range Line ∡ = 180° at inst. sta.
		2	Y		18[illegible]5	
		3	W		18[illegible]0	
421+ 48.68 634.13' out on range line	421+ 48.68 at base line	1	R	905	18[illegible]5	Range Line ∡ = 180° at inst. sta.
		2	Y		18[illegible]0	
		3	W		18[illegible]	
		4	R	915	181[illegible]5	Outside toe brk. water at N. end
		5	Y		183[illegible]0	In line of + off N. end of brk. water.
		6	W		181[illegible]	Inside toe of brk water at N. end.

Range see bottom of page

Sta's 416+48.46 – 418+98.57 & 421+48.68 on outside of breakwater.

F.B. 1289 PG. 20 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Meineck Notes GWK 11-27-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS 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.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
D	C	1	R	8 04	200 40	Range Line 406+44.02
		2	Y		200 25	
		3	W		200 00	
		4	Y		198 45	
		5	W		195 45	
D	C	1.	R	8 15	209 50	Range Line 408+98.13
		2	Y		216 05	
		3	W		217 00	
D	C	1	R	8 27	228 05	Range Line 411+48.24
		2	Y		226 55	
		3	W		221 50	
D	C	1	R	8 34	229 30	Range Line 413+98.35
		2	Y		235 10	
		3	W		235 40	

For location of these points see pg. 253, F.B. 1288

Cut in.
406+44.02 - 408+98.13 - 411+48.24
+ 413+98.35. (Outside of breakwater)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8442 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Blaneck Notes CWW. Date 11-29-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 21

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
D	C	1.	R	8:45	241-[illegible]	Range Line 416+48.46
		2	Y		24[illegible]	
		3	W		238-[illegible]	
D	C	1	R	8:56	241-[illegible]	Range Line 418+98.57
		2	Y		245-20	
		3	W		246-[illegible]	
D	C	1	R	9:05	249-20	Range Line 421+48.68
		2	Y		248-55	
		3	W		24[illegible]	
C	B	1	R	9:14	239-35	Outside toe of breakwater at N. end.
		2	Y		241-50	Near ℄ of + off N. end of breakwater
		3	W		24[illegible]-50	Inside toe of breakwater.

For location of these points see pg. 253, F.B. 1288

Cut in see bottom of page.

Range Lines 416+48.46 – 418+98.57 + 421+48.68 on outside of breakwater.

F.B. 1289 PG. 22 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Hemeck Notes Cwd. 11-27-46 Notes Chkd. Checked
Indexed ALBERT E. TIMMONS 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 #	Colo.	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	804	12.5-13.5	12.8	5.1	7.7	Outside Toe of breakwater.
2	Y		16.4-17.4	16.7		11.6	Range 406+44.02 (N) (Going out)
3	W		30.0-31.0	30.3		25.2	
4	Y		32.6-33.8	33.0		~~28.9~~ 27.9	
5	W		34.7-35.0	34.8		29.7	
1	R	815	32.2-34.2	32.9	5.2	27.7	Range 408+98.13. (Going in)
2	Y		31.2-32.1	31.5		26.3	
3	W		19.5-20.3	19.8		14.6	Outside toe of breakwater.
1	R	827	18.6-19.6	18.9	5.3	13.6	Outside toe of breakwater Range 411+48.24 (N) (Going out)
2	Y		29.5-30.0	29.7		24.4	
3	W		33.0-33.9	33.3		28.0	
1	R	834	33.4-34.0	33.6	5.3	28.3	Range 413+98.35 (N) (Going in)
2	Y		29.0-29.8	29.3		24.0	
3	W		23.0-24.0	23.3		18.0	outside toe of breakwater.

Boat.
406+44.02, 408+98.13, 411+48.24
+ 413+98.35 (N) - Outside of
Santa Monica
Breakwater.

Profile No. ____ Date 12-19-46 Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 23
X-Sec. No. ____ Date ____ Notes Chkd. [illegible] Checked ____ Survey of Beach Erosion Survey by Memack Notes D.S. Date 11-27-46
Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	845	20.6-21.5	20.9	5.4	15.5	Outside toe of breakwater (Going out)
2	Y		29.0-30.0	29.3		23.9	
3	W		33.0-38.0	34.1		29.3	Range 416+48.46 (N)
1	R	856	33.0-34.0	33.3	5.4	27.9	Range 418+98.57 (N) (Going in)
2	Y		29.4-31.1	30.0		24.6	
3	W		24.5-25.5	24.8		19.4	Outside toe of breakwater
1	R	905	19.0-20.5	19.5	5.5	14.0	Outside toe of breakwater.
2	Y		29.0-30.1	29.4		23.9	
3	W		33.0-33.8	33.3		27.8	Range 421+48.68 (N) (Going out)
1	R	915	29.5-30.4	29.8	5.6	24.2	Outside toe } At N. end of breakwater
2	Y		29.2-30.0	29.5		23.9	Near ℄ of
3	W		29.5-30.0	29.7		24.1	Inside toe

Boat.
416+48.46, 418+98.57, & 421+48.68 (N)
— Outside of breakwater.

F.B. 1289 PG. 24
Job No. 842 Division No. Notes Red. AZ Plotted H U M H Profile
Survey of Beach Erosion Date 12-19-46 Date 1947 No. X-Sec.
Survey by Fleinest Notes D.S. 11-27-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date 12-30-46 Date

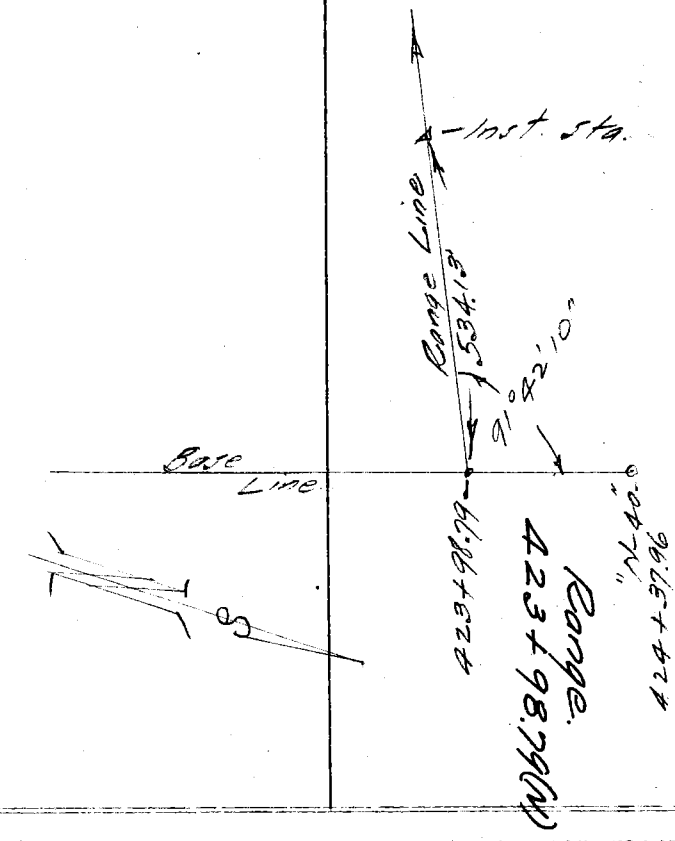
FORM 307 5M 1-46

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
423 + 98.79	423 + 98.79	1	R	754	17950	Range Line ∡ = 180° at inst sta.	
534.13'	at	2	B		18000		
out	base	3	W		17950		
on	line	4	B		18005		
range		5	W		18015		
line		6	R	805	18000		
		7	B		18020		
		8	W		18000		
		9	B		18000		
		10	W		18010		
		11	R	810	18000		
		12	B		18010		
		13	W		18000		
		14	B		18015		
		15	W		18020		
		16	R	814	17955		
		17	B		18000		
		18	W		18000		
		19	B		18000		
		20	W		18000		



Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1284 Pg. 25
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleiner Notes Gwk Date 12-2-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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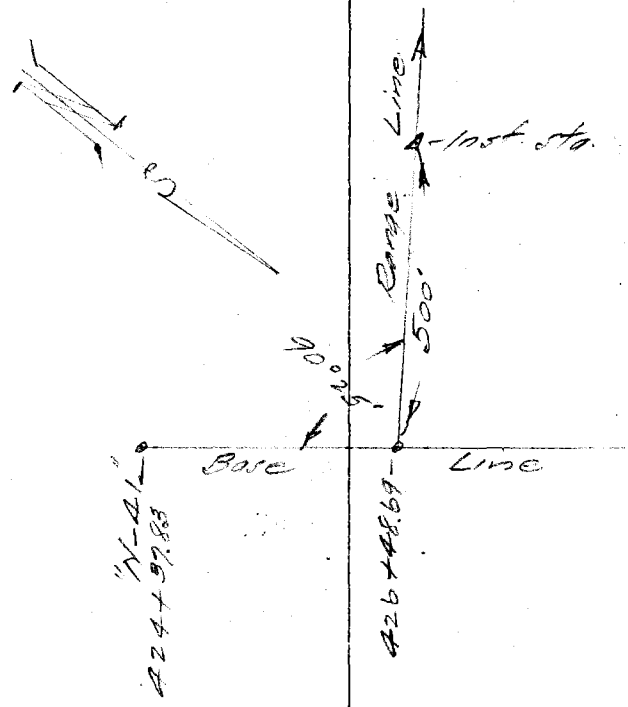
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
426+	426	1	R	829	18[illegible]	Range Line ∡ = 180° at inst sta.
48.69	+ 48.69	2	B		18[illegible]	
—	at	3	W		18[illegible]	
500'	base	4	B		180[illegible]	
out	line	5	W		18[illegible]	
on		6	R	835	18[illegible]	
range		7	B		18[illegible]	
line		8	W		18[illegible]	
		9	B		18[illegible]	
		10	W		18[illegible]	
		11	R	840	18[illegible]	
		12	B		18[illegible]	
		13	W		18[illegible]	
		14	B		18[illegible]	
		15	W		18[illegible]	
		16	R	852	18[illegible]	
		17	B		18[illegible]	
		18	W		18[illegible]	
		19	B		18[illegible]	
		20	W		18[illegible]	

Range 426+48.69(N)



F.B. 1789 PG. 26

Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by H. Heinzel Notes Gulk 12-2-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date Date

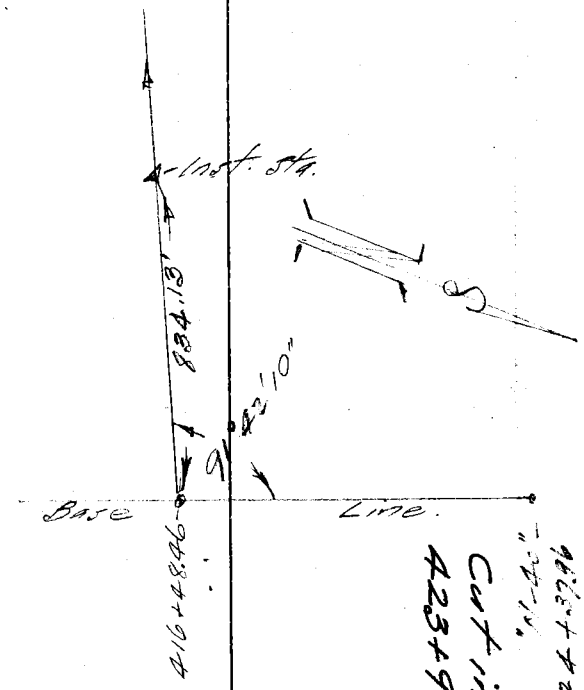
FORM 307 5M 1-46

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
416+48.46		1	R	7:53	[illegible]	Range 423+98.79
[illegible]	[illegible]	2	B		212-00	
[illegible]		3	W		214-35	
[illegible]	at base line	4	R		[illegible]	
		5	W		227-20	
		6	R	8:05	[illegible]	
		7	B		231-15	
		8	W		242-30	
		9	[illegible]		244-50	
		10	W		[illegible]	
		11	R	8:10	[illegible]	
		12	R		250-45	
		13	W		[illegible]	
		14	B		[illegible]	
		15	W		[illegible]	
		16	R	9:12	263-25	
		17	B		267-00	
		18	W		269-10	
		19	B		271-45	
		20	W		275-25	END OF LINE.



Cut in.
423+98.79(1)

Profile: Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. [illegible] Pg. 27.
No. ____ Date ____ Date 1947 Survey of BEACH EROSION
X-Sec. Notes Chkd ____ Checked ____ Survey by [illegible] Notes [illegible] Date 12-2-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
416+48.46 -N ON 834.13 [illegible]	416+48.46 -N at base line	1	[illegible]	[illegible]	[illegible]	BANGE 426+48.69 (N)
		2	[illegible]		[illegible]	
		3	[illegible]		[illegible]	
		4	[illegible]		[illegible]	
*		5	[illegible]		[illegible]	* Inst. Sta. same as that shown in sketch on preceding page.
		[illegible]	[illegible]	[illegible]	[illegible]	
		7	[illegible]		[illegible]	
		[illegible]	W		[illegible]	
		9	[illegible]		[illegible]	
		10	W		[illegible]	
		11	[illegible]	[illegible]	[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]	[illegible]	[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]		[illegible]	
		20	W		[illegible]	END OF LINE

Cut in 426+48.69 (N)

F.B. 1289 PG. 28

Job No. 8412 Division No. 8412 Notes Red. Plotted H U M H Profile

Survey of BEACH EROSION Date 1947 No. X-Sec.

Survey by [illegible] Notes D.S. 12-2-46 Notes Chkd. Checked

Indexed ALBERT E. TIMMONS 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.

Profile No. ____ X-Sec. No. ____

Notes Red Date 12-19-46 Plotted H.U.M.H. Date 1948 Job No. 6412 Division No. ____ Survey of Beach Erosion

Notes Chkd Date 12-30-46 Checked ____ Date ____ Survey by Kleinpeck Notes GTO H Date 12/2/46

Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 219 PG. 29

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	R	7:53	28.3-29.7	28.8	3.5	25.3	Range 423+98.79 Going in.
2	B		27.2-27.9	27.4		23.9	
3	W		25.6-26.6	25.9		22.4	
4	B		24.2-25.2	24.5		21.0	
5	W		23.5-24.4	23.5		20.0	
6	R	8:06	21.0-23.6	21.9	3.4	18.5	
7	B		20.5-22.1	21.0		17.6	
8	W		19.2-20.8	19.7		16.3	
9	B		18.0-19.2	18.4		15.0	
10	W		17.0-18.9	17.6		14.2	
11	R	8:10	15.5-16.5	15.8	3.4	12.4	
12	B		14.0-15.0	14.3		10.9	
13	W		12.9-14.0	13.3		9.9	
14	B		11.0-12.0	11.3		7.9	
15	W		9.4-10.3	9.7		6.3	
16	R	8:15	8.2-9.3	8.6	3.4	5.2	
17	B		6.8-8.2	7.3		3.9	
18	W		5.5-6.7	5.9		2.5	
19	B		4.3-5.2	4.6		1.2	
20	W		3.2-4.3	3.6		0.2	End of line

Boat.
423+98.79

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.

Profile No. ____ X-Sec. No. ____

Plotted H.U.M.H. Date 1947

Notes Red. ____ Date 12-19-46 Notes Chkd. ____ Date ____

Checked ____ Date ____

Job No. 2412 Division No. ____

Survey of Beach Erosion

Survey by Fleming & Hall

Notes ____ Date ____

Indexed ALBERT E. TIMMONS

F.B. 289 PG. 30

STATION #	Color	B.S. Time	H.I. Meas. Depth	F.S. Botom	ELEV. Ft. Tide	Adj. Depth		Remarks
1	R	8:29	4.2 - 5.7	4 7	3.3	1.4	Range	426+48.69 (N)
2	B		6.2 - 7.0	6 3		3.0		Going Out.
3	W		7.6 - 8.1	8 0		4.7		
4	B		8.9 - 9.3	9 2		5.9		
5	W		9.9 - 10.9	10 2		6.9		
6	R	8:36	10.8 - 12.1	11 2	3.3	7.9		
7	B		12.0 - 13.2	12 4		9.1		
8	W		13.8 - 14.6	14 1		10.8		
9	B		14.8 - 15.7	15 1		11.8		
10	W		16.1 - 17.1	16 4		13.1		
11	R	8:40	17.7 - 18.5	18 0	3.2	14.8		
12	B		18.6 - 19.4	18 9		15.7		
13	W		19.9 - 20.7	20 2		17.0		
14	B		20.5 - 21.9	21 0		17.8		
15	W		21.9 - 23.3	22 4		19.2		
16	R	8:51	22.9 - 23.7	23 2	3.2	20.0	Boat. 426+48.69(N)	
17	B		24.9 - 25.0	24 3		21.1		
18	W		25.6 - 25.9	25 3		22.1		
19	B		26.4 - 27.6	26 8		23.6		
20	W		28.0 - 29.0	28 3		25.1	End	of line

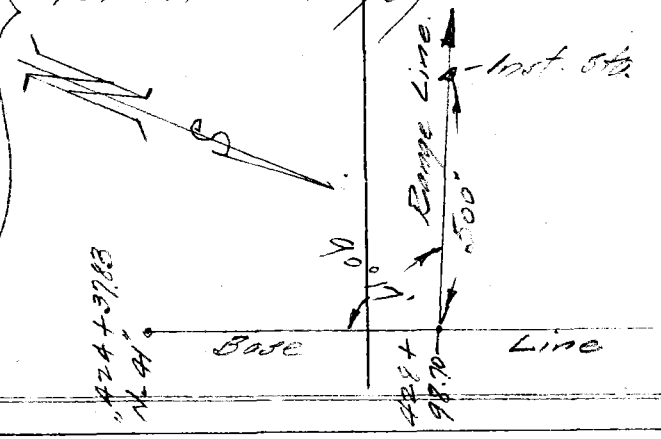
FORM 307 5M 1-46

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
428 + 98.70 – 500' out on range line	428 + 98.70 at base line	1	R	936	18005	Range Line ∡ = 180° at inst. Sta.
		2	B		18015	
		3	W		18015	Taken on 12/2/'46.
		4	B		18025	
		5	W		18040	
		6	R	957	18015	
		7	B		18030	
		8	W		18005	
		9	B		18025	
		10	W		18020	
		11	R	1006	18000	Taken on 12/3/'46
		12	B		18020	
		13	W		18025	
		14	B		17950	
		15	W		18010	
		16	R	1009	18005	
		17	B		18000	



Range 428 + 98.70 (N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1259 Pg. 31
X-Sec. No. ____ Date ____ Date 1947 Survey of Beach Erosion 12-3-'46
Notes Chkd. ____ Checked ____ Survey by Reeves Notes Sewk Date 12-2-'46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 32

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Meineck Notes Gink 12-3-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

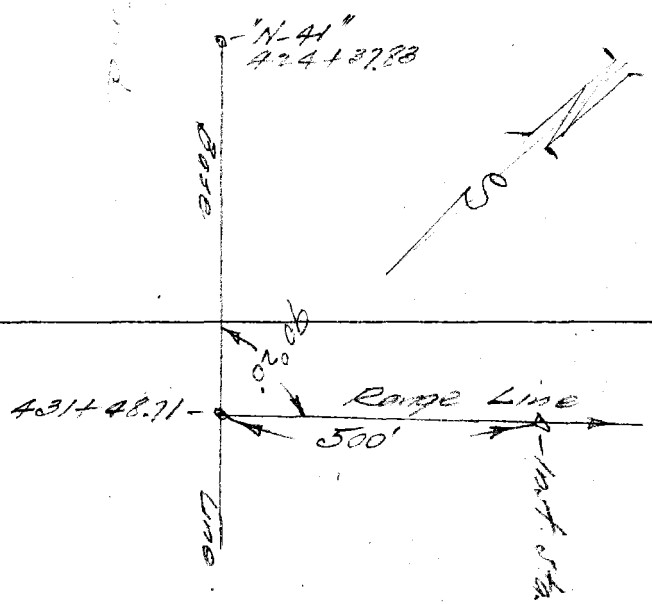
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

Range
431+48.71 (N)

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.
431 + 48.71 500' out on range line	431 + 48.71 at base line	1	C	10 17	180.0 Range line ∡ = 180° at Inst. Sta. (Going Out)
		2	B		181.5
		3	W		180.0
		4	B		180.5
		5	W		180.0
		6	R	10 19	180.0
		7	B		180.0
		8	W		180.5
		9	B		180.0
		10	W		180.5
		11	C	10 25	180.0
		12	B		180.0
		13	W		180.0
		14	B		180.1
		15	W		180.1
		16	C	10 35	180.0



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
416+48.46 -N ON 831.[illegible] OFFSET *	[illegible]+48.46 -N at base line	1	R	9:37	221-25	RANGE 428+98.70 (N)
		2	B		224-35	Taken on 12/2/'46
		3	W		[illegible]	
		4	B		237-[illegible]	
		5	W		24[illegible]	
		[illegible]	[illegible]	9:56	240-20	Taken on 12/3/'46
					249-00	
					254-25	
		[illegible]	[illegible]		258-15	
					261-30	
				10:05	263-10	
		[illegible]	[illegible]		264-45	
		[illegible]			265-40	
		[illegible]			267-[illegible]	
		[illegible]			268-[illegible]	
		[illegible]		10:08	268-45	
		17	B		269-05	

* Inst. sta. same as that on range line 423+98.79

Cut in. 428+98.70 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1259 PG. 93
No. ____ Date ____ Date 1947 Survey of [illegible] 12-3-'46
X-Sec. Notes Chkd ____ Checked ____ Survey by [illegible] Notes D.S. Date 12-2-46
No. ____ Date ____ Date ____ Map No. ____ Indexed [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		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
416+48.46 (N)	416 + 22.46	1		10:16	269-55	Range 431+48.71	
ON	at	2	B		26[illegible]		
834.13	base	3			268-[illegible]		
offset	line	4			267-[illegible]		
*		5			266-[illegible]		
		6		10:18	265-10		
		7			263-[illegible]	* Inst. sta. same as that on preceding page.	
		8			262-[illegible]		
		9			260-[illegible]		
		10			256-[illegible]		
		11		10:24	249-[illegible]		
		12			241-55		
		13			238-35		
		14			233-[illegible]5		
		15			227-25		
		16		10:35	224-25		
		~~17~~	~~B~~				
		~~18~~	~~W~~				

Cut in 431+48.71 (N)

F.B. 1289 PG. 34 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of BEACH EROSION Date Date 1947 No. X-Sec.
Survey by ALEINECK Notes CWW 12-3-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date 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 #	Color	B. S. Time	H. I. ~~Meas.~~ Depth	F. S. Bottom	ELEV. ~~Ht.~~ Tide	Adj. Depth	Remarks
1	R	9:37	27.8-28.6	28 1/2	3.0	25.1	Range 428+98.70
2	B		26.8-27.5	27 3/4		24.0	Going in
3	W		25.0-25.9	25 3/4		22.3	Taken 12/2/'46
4	B		23.5-24.2	23 3/4		20.7	
5	W		22.2-24.0	22 3/4		19.8	
6	R	9:56	22.0-24.2	22 1/2	2.6	20.1	12-3-46
7	B		21.0-22.0	21 1/4		18.8	
8	W		20.0-20.8	20 3/4		17.7	
9	B		18.7-20.6	19 3/4		16.7	
10	W		17.2-19.1	17 3/4		15.2	
11	R	10:06	16.0-17.8	16 1/2	2.5	14.1	Taken 12/3/'46
12	B		15.0-16.2	15 1/4		12.9	
13	W		14.0-15.7	14 1/2		12.1	
14	B		12.0-14.0	12 1/2		10.2	
15	W		10.8-13.0	11 1/2		9.0	
16	R	10:09	9.2-12.0	10 1/2	2.5	8.0	
17	B		8.8-11.8	9 3/4		7.3	End of line
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Profile No. ____ X-Sec. No. ____

Notes Red ____ Date 12-19-46 Notes Chkd. ____ Date ____

Plotted H. U. M. Date 12-19-46 Checked ____ Date ____

Job No. ____ Survey of ____ Survey by ____ Notes ____ Date 12-3-46

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

F.B. 1769 PG. 35

ALBERT E. HUMPHRIES

Boof
428+98.70(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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth		Remarks
1	R	10:17	9.0-10.3	9 4	2.4	7.0	Range	431+48.71
2	B		10.0-11.0	10 3		7.9	Going	out
3	W		11.8-13.3	12 3		9.9		
4	B		13.0-14.7	13 6		11.2		
5	W		14.0-15.4	14 5		12.1		
6	R	10:19	15.8-17.6	16 4	2.4	14.0		
7	B		17.0-18.0	17 3		14.9		
8	W		18.0-19.0	18 3		15.9		
9	B		19.0-20.0	19 3		~~17.9~~ 16.9		
10	W		20.0-21.2	20 4		18.0		
11	R	10:2[illegible]	21.0-22.8	21 6	2.3	19.3		
12	B		22.4-24.1	23 0		20.7		
13	W		23.8-25.5	24 4		22.1		
14	B		25.0-26.1	25 4		23.1		
15	W		26.0-27.0	26 7		24.4		
16	R	10:3[illegible]	27.5-29.1	27 9	2.34	25.6	[illegible]	
~~17~~	~~B~~							
~~18~~	~~W~~							
~~19~~	~~B~~							
~~20~~	~~W~~							

Boat 431+48.71 (N)

F.B. 1789 PG. 36

Job No. 212 Division No. Notes Red [illegible] Plotted H. U. M. H. Profile

Survey of [illegible] Date 12-19-46 Date 12-17 No. X-Sec.

Survey by [illegible] Notes D.S. 12-3-46 Notes Chkd [illegible] Checked

Indexed ALBERT E. TIMMONS Date Date 12-30-46 Date No.

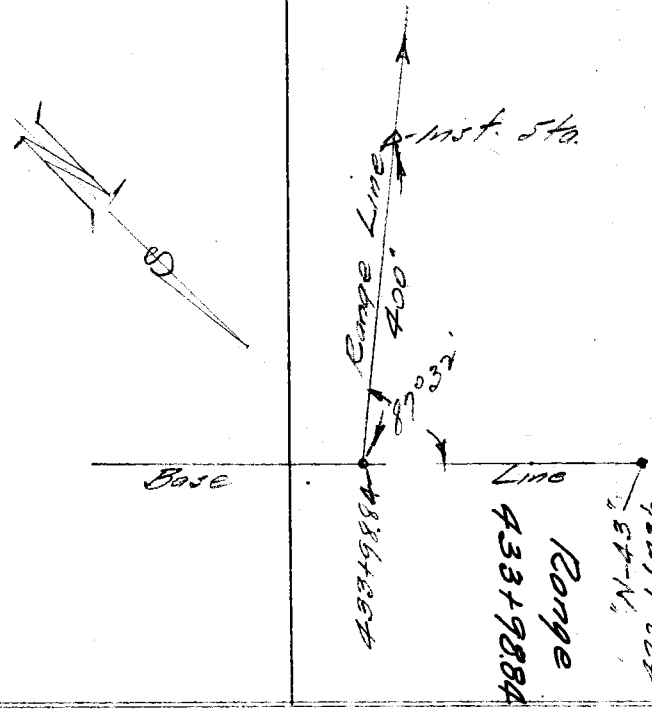
FORM 307 5M 1-46

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	
433+	433	1 R	1052	180 05	Range Line ∡ = 180° at inst. Sta.	
98.84	+ 98.84	2 B		18015		
400'	at	3 W		18020		
out on	base	4 B		18000		
range	line	5 W		18020		
line		6 R	1106	18020		
		7 B		18020		
		8 W		18000		
		9 B		18025		
		10 W		18030		
		11 R	1112	18000		
		12 B		18000		
		13 W		17955		
		14 B		18000		
		15 W		17945		
		16 R	1113	18000		



Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Plemer Notes Gwk. Date 12-3-'46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 37

FORM 307 5M 1-46

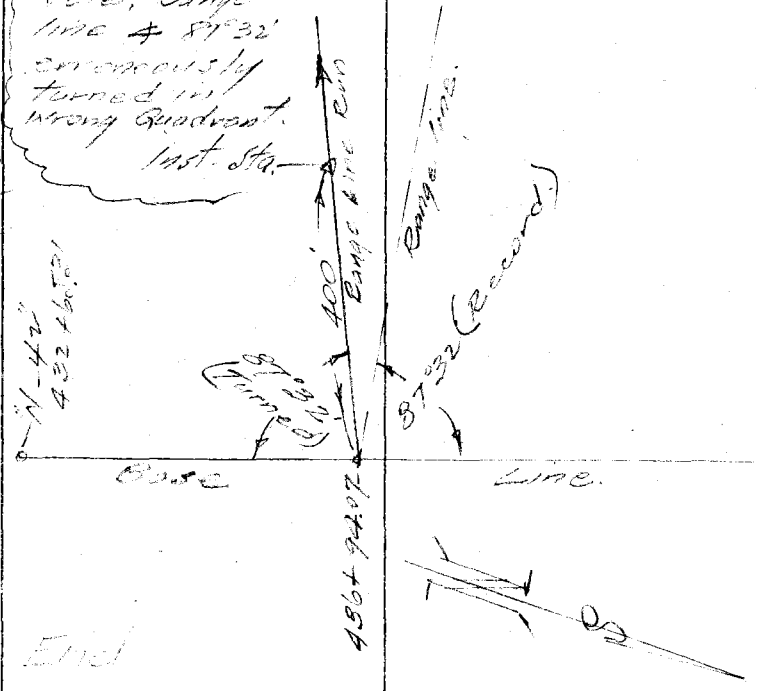
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
436	436	1	R	1122	179 [illegible]	Range Line ∡ = 180° at inst. Sta.
~~43~~ 44 ~~[illegible]~~ 07	~~43~~ 44 ~~[illegible]~~ 07	2	B*		[illegible]	
400'	at	3	W		[illegible]	Note; Range line ∡ 87°32' erroneously turned in wrong Quadrant.
out	base	4	B		[illegible]	
on	line.	5	W		170 [illegible]	
range		6	R	1125	180 [illegible]	Inst. Sta.
line		7	B		[illegible]	
		8	W		170 [illegible]	
		9	B		[illegible]	
		10	W		180 [illegible]	
		11	R	1132	180 [illegible]	
		12	B		180 [illegible]	
		13	W		170 [illegible]	
		14	B		180 [illegible]	
		15	W		180 [illegible]	
		16	R	1152	180 [illegible]	
		17	B		179 [illegible]	End

Range 436 + ~~44~~ 49.07 (N)



* Black flag now being used in place of Yellow

F.B. 1389 Pg. 38 Job No. 8412 Division No. Notes Red Date Plotted H.U.M.H. Date 1947 No. Profile
Survey of Beach Erosion Notes GWK 12-3-46 Notes Chkd Checked X-Sec.
Survey by Hemet Date Date No.
Indexed ALBERT E. TIMMONS

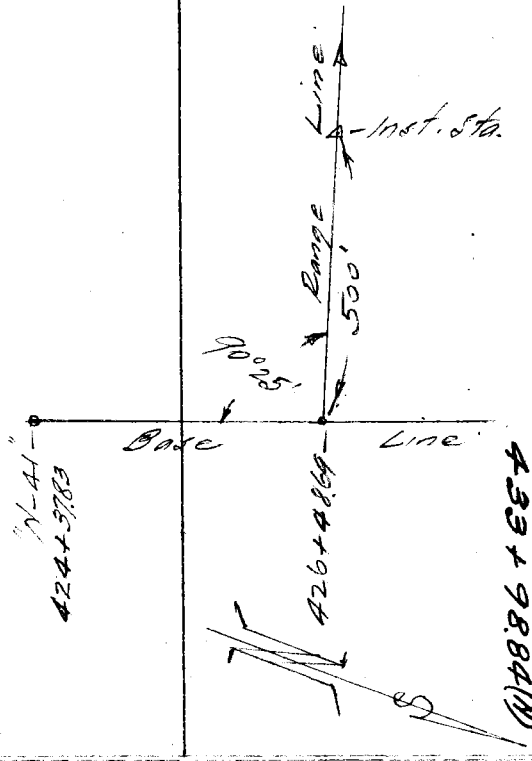
FORM 307 5M 1-46

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
426+48.69	[illegible] + 48.69	1 R	10:51	200-35	[illegible] 433+98.84
ON		2 R		203-05	
500' OFFSET	Base Line	3 W		205-40	
		4 R		207-10	
		W		213-35	
		R	11:05	219-10	
		[illegible]		224-50	
		[illegible]		230-00	
		[illegible]		234-10	
		[illegible]		237-20	
		R	11:11	239-10	
		[illegible]		241-05	
		W		242-25	
		[illegible]		243-20	
		[illegible]		244-10	
		[illegible]	11:13	[illegible]	



Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. [illegible] Division No. ____
X-Sec. Date ____ Date 1947 Survey of [illegible]
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by [illegible] Notes CWW Date 12-3-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 39

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
426+48.69 on 500' offset	426+48.69 on base line	1	[illegible]	11:21	25[illegible]	RANGE 436+[illegible]
		2	[illegible]		24[illegible]	
*		3	[illegible]		24[illegible]	
		4			24[illegible]	
		5	[illegible]		24[illegible]	* Inst. sta. same as that on preceding pg.
		6	[illegible]	11:24	24[illegible]	
		7	[illegible]		24[illegible]-25	
		8	[illegible]		24[illegible]	
		9	[illegible]		238-15	
		10	[illegible]		235-[illegible]	
		11	[illegible]	11:34	230-50	
		12	[illegible]		22[illegible]	
		13	[illegible]		213-[illegible]	
		14	[illegible]		211-[illegible]	
		15	[illegible]		20[illegible]	
		16	[illegible]	11:51	20[illegible]	
		17	B		202-50	

Cut in. 436+~~94~~.07 (N) 49

F.B. 1289 PG. 40 Job No. 2[illegible]2 Division No. Notes Red Plotted H.U.M.H. Profile
Survey of [illegible] Date 1947 No.
Survey by [illegible] Notes Cwn 12-3-46 Notes Chkd. Checked X-Sec.
Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
	R	[illegible]	27.2-30.0	28.1	2.2	25.9	RANGE 433+92.84 (N)
2	R		26.0-28.2	26.7		24.5	GOING IN
	W		25.0-26.[illegible]	25.4		23.2	
4	E		23.[illegible]-26.0	24.5		22.3	
5	W		22.0-23.5	22.5		20.3	
6	R	11:06	21.0-22.[illegible]	21.6	2.1	19.5	
7	B		20.0-21.[illegible]	20.5		18.4	
8	W		18.6-21.0	19.4		17.3	
9	E		17.6-19.1	18.1		16.0	
10	W		16.0-18.0	16.7		14.6	
11	B	11:11	15.0-16.7	15.6	2.1	13.5	
12	R		13.9-15.0	14.3		12.2	
13	W		12.7-13.8	13.1		11.0	
14	R		11.0-13.0	11.7		9.6	
15	W		9.5-11.0	10.0		7.9	
16	R	11:13	7.6-9.[illegible]	8.3	2.1	6.2	END OF LINE.

Boot. 433+98.84 (N)

Profile No. ____ Notes Red LCW Plotted H.U.M.H. Job No. 8402 Division No. ____ F.B. 129 Pg. 41
Date 12-30-46 Date 1947 Survey of [illegible]
X-Sec. No. ____ Notes Chkd [illegible] Checked ____ Survey by [illegible] Notes D. S. Date 12-3-46
Date 1-6-47 Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H.I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1		[illegible]	[illegible].0-9.0	8 3	2.1	6.2	[illegible] 436+[illegible] (N)
2			[illegible]	9 6		7.5	[illegible]
3			[illegible].0-	11 4		9.3	
4			12.0-13.2	12 4		10.3	
			13.0-14.8	13 6		11.5	
		[illegible]	[illegible]	15 3	2.0	13.3	
			[illegible].0-17.0	16 3		14.3	
			17.0-18.1	17 4		15.4	
			[illegible].0-	18 5		16.5	
			[illegible].0-20.0	19 3		17.3	
			[illegible]	20 4	2.0	18.4	
			[illegible].0-[illegible].0	21 3		19.3	
			[illegible].0	23 5		21.5	
			[illegible].0-[illegible].0	24 3		22.3	
			[illegible]	25 5		23.5	
		11:51	26.0-27.4	26 5	1.9	24.6	
12			[illegible].0-[illegible]	27 4		25.5	END OF LINE

Boat 436+49.07 (N) ? +49.07

F.B. 1289 PG. 42

Job No. [illegible] Division No. [illegible] Notes Red. [illegible] Date 12-19-46 Plotted H.U.M.H. Date 1947 No. Profile

Survey of [illegible] Notes [illegible] Notes Chkd [illegible] Checked [illegible] X-Sec.

Survey by [illegible] Date [illegible] Date 12-30-46 Date [illegible] No.

Indexed ALBERT E. TIMMONS

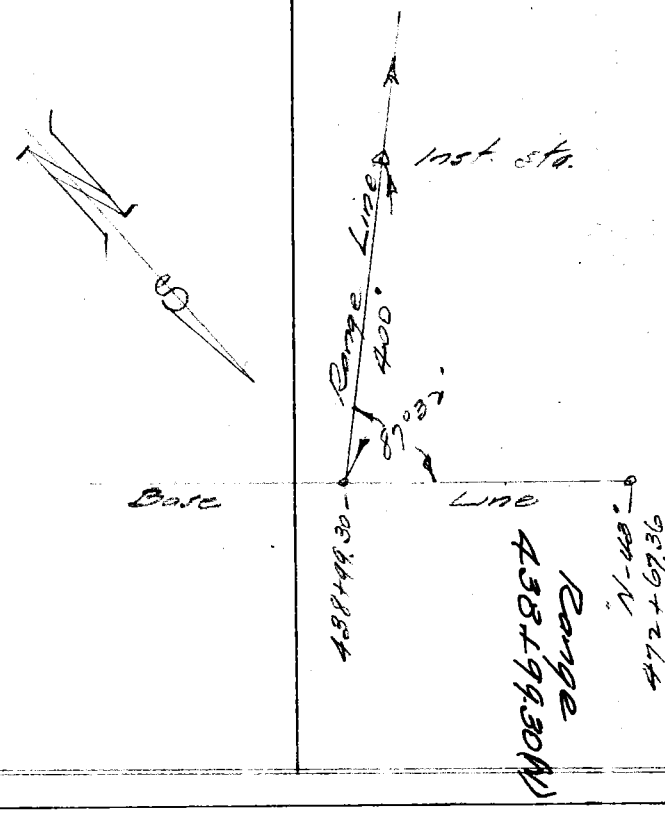
FORM 307 5M 1-46

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
438 + 99.30 — 400' out on Range line.	438 + 99.30 at base line	1	R	1208	18010	Range Line ∠ = 180° at inst Sta.
		2	B		17950	
		3	W		17955	
		4	B		17950	
		5	W		18000	
		6	R	12 ~~15~~ 20	18010	
		7	B		18000	
		8	W		18000	
		9	B		18000	
		10	W		18000	
		11	R	1228	17945	
		12	B		17955	
		13	W		18000	
		14	B		18000	
		15	W		18025	



Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 43
No. ____ Date ____ Date 1941 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Meneck Notes Fwk. Date 12-3-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
441 + 49.53 400' out on range line	441 + 49.53 at base line	1	R	12 37	179.40	Range Line ∡ = 180° at inst. sta.
		2	B		179.40	
		3	W		180.00	
		4	B		180.00	
		5	W		179.55	
		6	R	12 42	180.00	Note: sketch for this sta. similar to that on preceding pg.
		7	B		179.40	
		8	W		180.00	
		9	B		179.40	
		10	W		179.55	
		11	R	12 50	179.40	
		12	B		179.55	
		13	W		179.55	
		14	B		179.40	
		15	W		180.00	
		16	R	1 04	179.40	
		17	B		180.00	

Range 441 + 49.53 (N)

F.B. 1789 PG. 44 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Nemeck Notes GWK 12-3-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS 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	
426+48.69	426+48.69	1	[illegible]	12:[illegible]	212-45	[illegible] 438+99.30 (N)	
on	on	2	[illegible]		214-[illegible]		
[illegible]	[illegible]	3	W		219-40		
[illegible]		4	[illegible]		221-20		
*		5	W		226-40	* Inst sta. same as that for	
		6	[illegible]	12:20	232-[illegible]	range line 433+98.84.	
		7	[illegible]		238-00		
		[illegible]	[illegible]		244-00		
		[illegible]	[illegible]		249-00		
		[illegible]	W		250-00		
		[illegible]	[illegible]	12:27	251-35		
		[illegible]	[illegible]		252-40		
		[illegible]	W		253-25		
		10	[illegible]		254-25		
		[illegible]	W		255-30		
		[illegible]	[illegible]				

Cut in.
438+99.30 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Date 1947 Job No. 8412 Division No. ____
X-Sec. Notes Chkd ____ Checked ____ Survey of BEACH [illegible] Survey by KLEINECK Notes CWW Date Mr 3 '46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 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.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
	426+48.69	1	R	12:36	255-15	Range Line	441+49.53
426+48.69	ON	2	B		[illegible]		
on	Base	3	W		256-30		
[illegible]	Line	4	B		[illegible]		
*		5	W		[illegible]	* Inst. sta. same as that for	
		6	R	12:41	255-30	range line 433+98.84.	
		7	B		[illegible]		
		8	W		250-[illegible]		
		9	R		[illegible]		
		10	W		240-[illegible]		
		11	R	12 50	23[illegible]		
		12	B		234-[illegible]		
		13	W		23[illegible]		
		14	B		[illegible]		
		15	W		223-[illegible]		
		16	R	[illegible]	[illegible]		
		17	B		[illegible]		

Cut in 441+49.53 (N)

F.B. 1289 PG. 46 Job No. 4812 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Alameda Notes Chkd. 12-3-46 Checked
Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	A	12:07	27.0-28.0	27.3	1.9	25.4'	RANGE 438+92.30 (N)
2	G		26.0-27.0	26.3		24.4'	GOING IN
3	W		25.0-26.4	25.5		23.6'	
4	S		24.0-26.0	24.7		22.8'	
5	W		22.5-24.0	23.0		21.1'	
6	R	12:20	21.3-22.3	21.6	2.0	19.6'	
7	R		20.0-21.3	20.4		18.4'	
8	W		18.8-20.8	19.5		17.5'	
9	G		17.4-19.1	18.0		16.0'	
10	W		15.8-17.3	16.3		14.3'	
11	R	12:28	14.4-15.8	14.9	2.1	12.8'	
12	G		13.0-14.0	13.3		11.2'	
13	W		11.0-13.6	11.9		9.8	
14	S		9.9-11.1	10.3		8.2'	
15	W		7.8-9.2	8.3		6.2'	END OF LINE.

Boat.
438+99.30 (N)

Profile
Notes Red. RCWF Plotted H.U.M.H. Job No. 8412 Division No.
No. Date 12-30-46 Date 1947 Survey of [illegible]
X-Sec. Notes Chkd [illegible] Checked Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 1-6-47 Date Map No. Indexed ALBERT E. TIMMONS Date

F.B. 1259 PG. 47

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.

F.B. [illegible] Pg. [illegible] Job No. [illegible] Division No. [illegible] Notes Red [illegible] Plotted H.U.M.H. Profile
Date 12-30-46 Date [illegible] 1947 No.
Survey of [illegible] Notes [illegible] Notes Chkd [illegible] Checked X-Sec.
Survey by [illegible] Date [illegible] Date 1-6-47 Date No.
Indexed ALBERT E. TIMMONS Date

STATION #	Color	B. S. Time	H.I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
[illegible]	1	2:37	6.7-7.8	7.2'	2.2	5.0'	[illegible]
[illegible]	[illegible]		8.5-[illegible].0	9.0'		6.8'	[illegible]
[illegible]	[illegible]		[illegible]	10.8'		8.6'	
[illegible]	[illegible]		[illegible]-[illegible].0	12.2'		10.0'	
[illegible]	[illegible]		13.1-[illegible]	13.9'		11.7'	
[illegible]	[illegible]	12:41	14.[illegible]-[illegible].0	15.6'	2.2	13.4'	
[illegible]	[illegible]		[illegible].0-[illegible]	17.3'		15.1'	
[illegible]	[illegible]		[illegible].0-[illegible]	18.3'		16.1'	
[illegible]	[illegible]		[illegible].0-[illegible]	19.4'		17.2'	
[illegible]	[illegible]		[illegible].0-[illegible].0	20.3'		18.1'	
[illegible]	[illegible]	12:41	[illegible].0-[illegible].0	21.3'	2.3	19.0'	
[illegible]	[illegible]		[illegible].0-[illegible].0	22.3'		20.0'	
[illegible]	[illegible]		[illegible].0-[illegible].0	23.3'		21.0'	
[illegible]	[illegible]		[illegible].0-[illegible].0	24.3'		22.0'	
[illegible]	[illegible]		[illegible].0-[illegible]	25.3'		23.0'	
[illegible]	[illegible]	[illegible]	[illegible].0-[illegible].0	26.3'	2.3	24.0'	
17	6		[illegible].0-[illegible]	27.4		25.1'	[illegible]

Boat
441 + 49.53 (N)

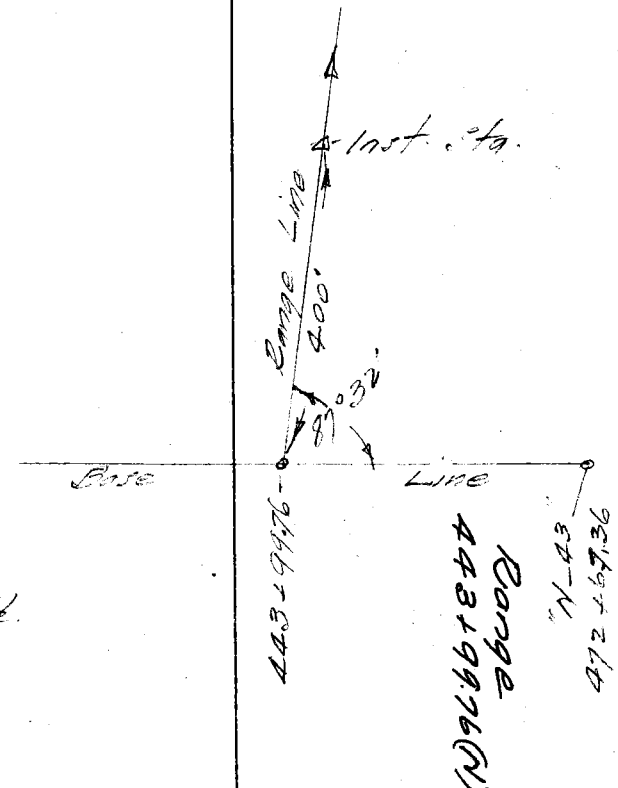
FORM 307 5M 1-46

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		B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
443 + 99.76 400' out on Range line	443 + 99.76 at base line	1	R	1 14	18010	Range Line ∡ = 180° at inst. sta.
		2	B		18020	
		3	W		18000	
		4	B		17950	
		5	W		17945	
		6	R	1:27	18000	
		7	B		17950	
		8	W		18015	
		9	B		18005	
		10	W		18000	
		11	R	1 35	17950	
		12	B		18020	
		13	W		18000	
		14	B		18010	
		15	W		18000	
		16	R	1:37	18000	End.



Profile Notes Red ____ Plotted H.U.M.H. Job No. 8417 Division No. ____ F.B. 1289 Pg. 49
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Wiemeth Notes Chk Date 12-3-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
446 + 49.99 (N) 400' out on range line *	446 + 49.99 at base line	1	R	7:56	180 10	Range Line ∡ = 180° at inst Sta.
		2	B		180 10	
		3	W		180 10	
		4	B		180 15	
		5	W		180 15	* Position of inst Sta. similar to that on preceding page.
		6	R	8:09	180 20	
		7	B		180 25	
		8	W		180 25	
		9	B		180 10	
		10	W		180 10	
		11	R	8:17	180 10	
		12	B		180 10	
		13	W		180 20	
		14	B		180 10	
		15	W		180 20	
		16	R	8:20	180 20	
		17	B		180 10	
		18	W		180 15	

Range 446 + 49.99 (N)

F.B. 1289 PG. 53 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Meineck Notes EWW 12-4-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date

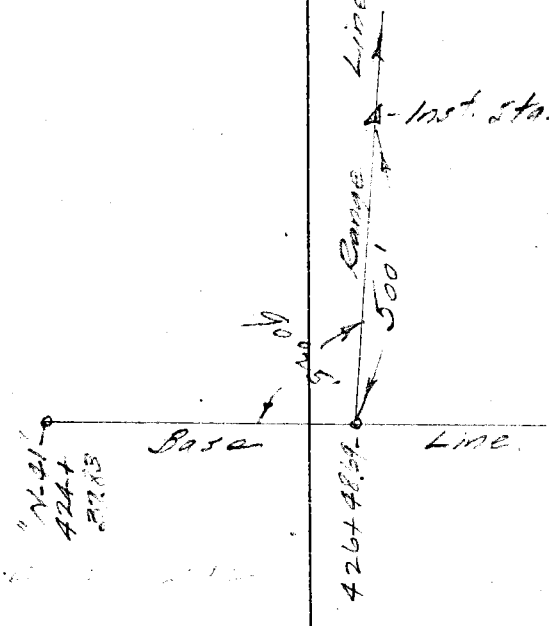
FORM 307 5M 1-46

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. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
	1	R	1:34	221-20	Range Line	443+9976
426+[illegible] 69 [illegible] 69	2	B		223-25		
on	3	W		228-15		
500' [illegible]	4	B		231-50		
	5	W		234-50		
	6	R	1:26	240-15		
	7	B		246-30		
	8	W		252-30		
	9	B		254-20		
	10	W		255-25		
	11	R	1:34	255-55		
	12	B		257-00		
	13	W		257-25		
	14	B		258-05		
	15	W		258-30		
	16	R	1:36	259-30	[illegible]	



Cut in 443+9976 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 842 Division No. ____ F.B. 1289 Pg. 51
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinert Notes Chkd. Date 12-3-46
No. ____ Date ____ Date ____ Map No. ____ Indexed LBERT E. TIMMONS Date ____

F.B. 1389 PG. 52

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

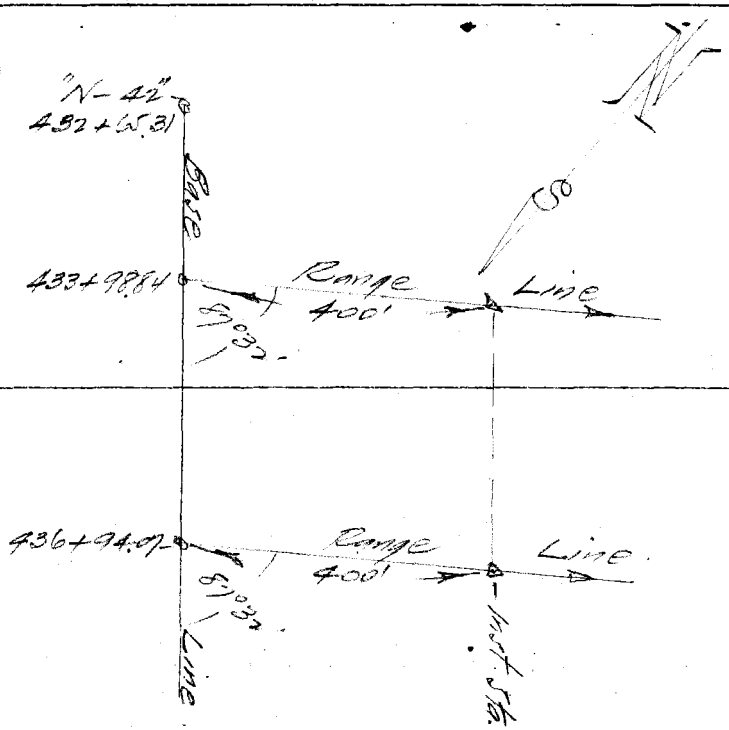
Survey by Kleinert Notes [illegible] Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

Cut in.
446+49.99(N)

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

Remarks



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 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	1:[illegible]	[illegible]-28.0	27.5	2.5	~~24.8~~ 25.0	[illegible] 443+99.76 (N)
2	[illegible]		26.0-[illegible]	26.7		24.2	[illegible]
3	[illegible]		24.0-[illegible]	24.8		22.3	
4	[illegible]		[illegible]	24.4		21.9	
5	[illegible]		[illegible]	23.0		20.5	
6	[illegible]	1:27	[illegible]	21.8	2.7	19.1	
7	[illegible]		20.0-[illegible]	20.7		18.0	
8	[illegible]		19.0-20.3	19.4		16.7	
9	[illegible]		18.0-19.0	18.3		15.6	
10	[illegible]		16.2-[illegible]	17.2		14.5	
11	[illegible]	[illegible]	15.2-17.[illegible]	15.8	2.7	13.1	
12	[illegible]		14.0-15.0	14.3		11.6	
13	[illegible]		12.2-13.[illegible]	12.7		10.0	
14	[illegible]		10.[illegible]	11.3		8.6	
15	[illegible]		9.5-[illegible]	10.2		7.5	
16	[illegible]	1:[illegible]	7.2-[illegible]	8.1	2.7	5.4	[illegible]

Boot 443+99.76 (N)

Profile No. ____ Notes Red LCW Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 53
X-Sec. No. ____ Date 12-30-46 Date 1947 Survey of BEACH EROSION
Notes Chkd [illegible] Checked ____ Survey by [illegible] Notes D.S. Date 12-[illegible]-46
Date 1-6-47 Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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.

Profile ____ X-Sec. ____ No. ____ Plotted H.U.M.H. Notes Red. ____ Date 12-19-46 Notes Chkd. ____ Date 12-30-46 Checked ____ Date ____

Job No. 5417 Division No. ____ Notes ____ Date ____ Notes ____ Date ____

Survey of Beach Erosion

Survey by Fleming

Indexed ALBERT E. TIMMONS

F.B. 144 Pg. 54

STATION #	Color	B. S. Time	H. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	7:54	28.1-29.1	28.3	4.3	24.0	Range 446+49.99 (N) Going In.
2	B		27.0-28.0	27.8		23.0	
3	W		25.9-27.0	26.3		22.0	
4	B		24.9-26.2	25.3		21.0	
5	W		23.8-26.4	24.7		20.4	
6	R	8:09	22.2-23.9	22.8	4.0	18.8	
7	B		20.3-22.4	21.8		17.0	
8	W		19.2-21.5	20.8		16.0	
9	B		18.0-19.0	18.3		14.3	
10	W		17.0-18.0	17.3		13.3	
11	R	8:14	15.6-17.4	16.3	3.0	12.3	
12	B		14.4-15.5	14.8		10.9	
13	W		13.0-14.0	13.3		9.4	
14	B		11.5-12.4	11.8		7.9	
15	W		10.0-11.4	10.5		6.6	
16	R	8:17	8.4-9.7	8.8	3.9	4.9	Boat 446+49.99 (N)
17	B		7.2-9.1	7.8		3.9	
18	W		5.3-6.8	5.8		1.9	End of line
~~19~~	~~B~~						
~~20~~	~~W~~						

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	
449+ 00.22 (N)	449+00.22 (N) on Base Line	1	R	8 27	180 00	Range Line ∡ = 180° at inst Sta.	
		2	B		180 35		
400' out on Range Line		3	W		180 20		
		4	B		180 10		
		5	W		180 05		
*		6	R	8 35	179 50	* Position of inst. sta. similar to that for range line 443+99.76	
		7	B		179 45		
		8	W		180 20		
		9	B		180 10		
		10	W		179 45		
		11	R	8 45	179 20		
		12	B		179 [illegible]		
		13	W		180 [illegible]		
		14	B		[illegible]		
		15	W		[illegible]		
		16	R	9 08	18[illegible]		
		17	B		[illegible]		

Range 449+00.22 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H. U. M. H. Date 1947 Job No. 8412 Division No. ____ Survey of Beach Erosion

X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Alameda Notes GWW Date 12-4-'46

Map No. ____ Date ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 55

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
451+	[illegible]	1	R	1057	179 50	Range line [illegible] 150 [illegible] inst. Sta.
50.45	[illegible]	2	B		180 05	
(N)	[illegible]	3	W		179 [illegible]5	
[illegible]	[illegible]	4	B		180 00	* Position of inst. Sta. similar to
*		5	W		179 25	that for range line 243+99.76
		6	R	1113	180 00	
		7	B		180 05	
		8	W		180 [illegible]5	
		9	B		179 25	
		10	W		180 00	
		11	R	1125	179 [illegible]	
		12	B		180 00	
		13	W		180 05	
		14	B		179 [illegible]	
		15	W		179 25	End.

Range 451+50.45 (N)

F.B. 1289 PG. 56 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No.
Survey by Meneer Notes GWK 12-4-46 Notes Chkd. Checked X-Sec.
Indexed ALBERT E. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
49				7:27	[illegible]	[illegible]	
					[illegible]		
					[illegible]		
*					[illegible]	* Inst. sta. same as that for [illegible] line 446+49.99 (N)	
					[illegible]		
				7:35	[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
					[illegible]		
				9:[illegible]	127-55		
		17			[illegible]	[illegible]	

Cut in.
449+00.22 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Notes Chkd ____ Checked ____ Survey of [illegible] 1947 Survey by [illegible] Notes ____ Date 12-4-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 57

F.B. 139 PG. 58 | Job No. 2412 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of BERCH [illegible] | Date | Date 1947 | No.

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

Indexed ALBERT S. TIMMONS | Date | Date | Date | No.

Cut in.
451+50.45 (N)

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

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

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. Color	H. I. Time	Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	8:26	5.5-6.8	5.9	3.8 ✓		2.1'	Range 449+00.22 (N)
2	B		6.8-8.8	7.5			3.7'	Going Out
3	W		7.9-8.8	8.2			4.4'	
4	B		10.5-11.5	10.8			7.0'	
5	W		12.5-13.9	13.0			9.2'	
6	R	8:33	13.7-14.7	14.0	3.7 ✓		10.3'	
7	B		15.6-16.4	15.9			12.2'	
8	W		17.5-18.5	17.8			14.1'	
9	B		18.8-19.6	19.1			15.4'	
10	W		20.0-21.0	20.3			16.6'	
11	R	8:42	21.0-21.7	21.2	3.5 ✓		17.7'	
12	B		22.0-23.4	22.5			19.0'	
13	W		23.0-24.0	23.3			19.8'	
14	B		24.0-25.4	24.5			21.0'	
15	W		25.0-25.5	25.2			21.7'	
16	R	9:07	26.0-26.8	26.3	3.1 ✓		23.2'	
17	B		27.0-28.4	27.5			24.4'	End of line
~~18~~	~~W~~							
~~19~~	~~B~~							
~~20~~	~~W~~							

Profile
No. ____ Notes Red LCWR Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 129 Pg. 59
Date 12-30-46 Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd [illegible] Checked ____ Survey by Kleinecke Notes 8 O.H. Date 12-4-46
No. ____ Date 1-6-47 Date ____ Map No. ____ Indexed LEBERT B. TIMMONS Date ____

Boat
449+00.22 (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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	10:54	26.4-27.4	26.7	1.6	25.1'	Range 451+50.45. Going In.
2	B		25.0-26.1	25.4		23.8'	
3	W		24.0-25.1	24.4		22.8'	
4	B		22.8-24.8	23.5		21.9'	
5	W		21.0-23.9	22.0		20.4'	
6	R	11:12	19.8-22.0	20.5	1.4	19.1'	
7	B		18.0-20.0	18.7		17.3'	
8	W		17.0-18.0	17.3		15.9'	
9	B		15.8-18.0	16.5		15.1'	
10	W		14.5-16.0	15.0		13.6'	
11	R	11:25	13.0-15.0	13.7	1.3	12.4'	
12	B		11.6-12.6	11.9		10.6'	
13	W		9.8-11.0	10.2		8.9'	
14	B		8.0-10.0	8.7		7.4'	
15	W		6.8-8.1	7.2		5.9'	End of line
~~16~~	~~R~~						
~~17~~	~~B~~						
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat 451+50.45 (W)

F.B. 1289 PG. 60

Job No. 5412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date 12-30-46 Date 1947 No. X-Sec.

Survey by Meinecke Notes GOH 12-4-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date Date 1-6-47 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	
454 + 00.68 — 400' out on range line *	454 + 00.68 at base line	1	C	1134	179 15	Range Line ∡ = 180° at inst. sta.	
		2	B		18020		
		3	W		17945		
		4	B		18045		
		5	W		18000	* Position of inst. sta. similar	
		6	R	1137	18035	to that for range line 443+99.76	
		7	B		18020		
		~~8~~	~~W~~		~~17935~~	out.	
		9	B		18025		
		10	W		18020		
		11	R	1150	18005		
		12	B		17940		
		13	W		18045		
		14	B		18020		
		15	W		18020		

Range 454+00.68 (N)

Profile No. ____ Notes Red ____ Date ____ Plotted H.U.M.H. Date 1947 Job No. 842 Division No. ____ Survey of Beach Erosion Survey by Howard Notes Fink Date 12-4-46

X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 61

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
456 + 50.91 400' out on range line *	456 + 50.91 at base line	1	R	1214	18000	Range Line ∠ = 180° at inst. Sta.
		2	B		17940	
		3	W		18000	
		4	B		17945	
		5	W		18000	* Position of inst. Sta. similar
		6	R	1230	18000	to that for range line 443 + 99.76 (N)
		7	B		18000	
		8	W		18005	
		9	B		17945	
		10	W		18000	
		11	R	1239	17950	
		12	B		17940	
		13	W		17940	
		14	B		18000	
		15	W		18000	End

Range 456 + 50.91 (N)

F.B. 1289 PG. 62 Job No. 8412 Division No. Notes Red. Plotted H U M H Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Hancock Notes B.V.K. 12-4-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date Date

Profile No. _____ Notes Red. _____ Plotted H.U.M.H. Job No. 842 Division No. _____ F.B. 1289 PG. 63

Date _____ Date 1947 Survey of [illegible]

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by [illegible] Notes D.S. Date 12-4-46

Date _____ Date _____ Map No. _____ Indexed ALBERT E. TIMMONS Date _____

Cut in
454+00.68 (N)

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 40 On	#	Color	Time	Hor. Ang.	
			11:32	167-40	[illegible]
				167-40	
				165-35	
				165-00	
				164-00	
			11:37	162-[illegible]	
				161-30	
				159-[illegible]	out.
				150-[illegible]	
				147-[illegible]	
			11:50	143-30	
				138-55	
				137-20	
				133-40	
				131-35	END OF LINE.

* Position of inst. Sta. same as that for range line 446+49.99 (N)

F.B. 1289 Pg. 64 | Job No. [illegible] | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of [illegible] | Date | Date 19[illegible] | No.

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

Indexed ALBERT E. TIMMONS | Date | Date | Date | No.

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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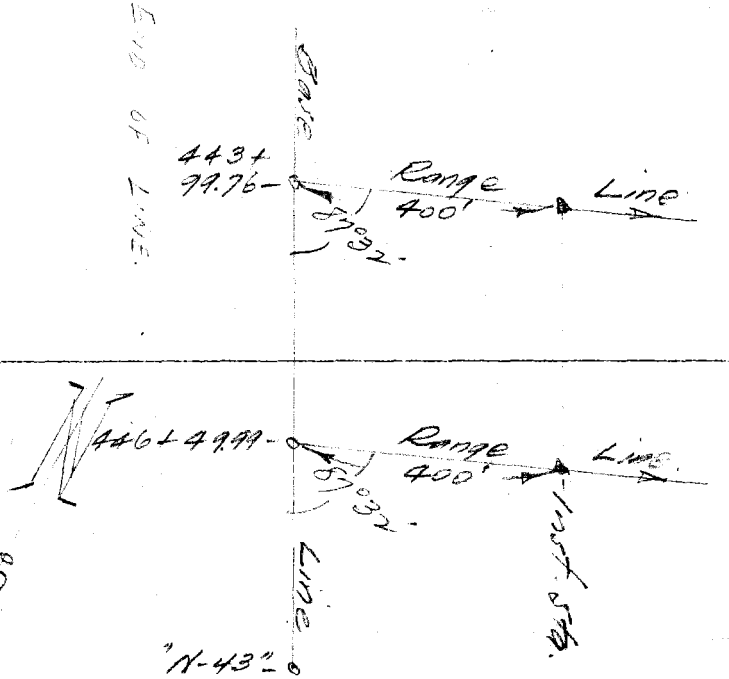
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Cut in
456+50.91 (N)

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



FORM 307 5M 1-46

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.

Profile No.____ X-Sec. No.____

Notes Red Date 12-31-46 Plotted ~~[illegible]~~ Date 12-31-46 Notes Chkd____ Date____ Checked ~~[illegible]~~ Date 1-6-47

Job No. 8412 Division No.____ Survey of Beach Erosion Survey by Flemeat Notes Chkd Date 12-4-46 Map No.____ Indexed LIBRARY & DIAGRAM Date____

F.B. 17 Pg. 65

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11:32	7.0-9.1	7.7	1.3	6.4'	Range 454+00.68
2	B		9.0-11.0	9.7		8.4'	Going Out
3	W		12.0-13.0	12.3		11.0'	
4	B		13.8-15.0	14.2		12.9'	
5	W		15.5-16.0	15.7		14.4'	
6	R	11:35	16.5-18.1	17.0	1.2	15.8'	
7	B		17.5 18.7	17.9		16.7'	
8	W			←	Omit	this	shot!
9	B		19.0-21.0	19.7		18.5'	
10	W		20.8-22.0	21.2		20.0'	
11	R	11:47	22.0-23.0	22.3	1.1	21.2'	
12	B		23.0 24.5	23.5		22.4'	
13	W		24.0-25.0	24.3		23.2'	
14	B		25.0-26.2	25.4		24.3'	
15	W		26.0-27.3	26.4		25.3'	End of line
16	R						
17	B						
18	W						
19	B						
20	W						

Boat.
454+00.68 (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.

F.B. 1159 PG. 66 | Job No. 541 W | Division No. | Notes Red. | Plotted H. U. M. H. | Profile
Survey of Beach Erosion | Notes Oct. 12-4-46 | Date 12-29-46 | Date 19-47 | No. | X-Sec.
Survey by Hennert | Notes | Notes Chkd. Rcw | Checked | No.
Indexed ALBERT S. TIMMONS | Date | Date 12-31-46 | Date

STATION #	Color	B. S. Time	Meas. Depth	F. S. Botom	ELEV. Tide	Adj. Depth	Remarks
1	R	12:12	25.8-26.6	26	1.1	25.0	Range 456+50 91. Going in.
2	B		24.0-26.0	24		23.6	
3	W		23.0-25.0	23		22.6	
4	B		22.0-24.0	22		21.6	
5	W		21.0-22.8	21		20.5	
6	R	12:30	20.0-21.0	20	1.1	19.2	
7	B		19.0-20.0	19		18.2	
8	W		18.0-20.0	18		17.6	
9	B		17.0-19.0	17		16.6	
10	W		15.2-17.1	15		14.7	
11	R	12:40	14.0-16.3	14	1.1	13.7	
12	B		12.8-15.0	13		12.4	
13	W		10.9-13.2	11		10.6	
14	B		9.9-12.1	10		9.5	
15	W		8.5-10.0	9		7.9	End of line
~~16~~	~~R~~						
~~17~~	~~B~~						
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat 456+50.91

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	R	1250	17920	Range Line = 180° at inst. sta	
459 + 01.14	459 + 01.14	2	B		18000		
		3	W		18010		
400'	at	4	B		17920		
out	base	5	W		17940	* Position of inst. sta. similar	
on	line	6	R	1252	18015	to that for range line 443+99.76(N)	
range		7	B		18015		
line		8	W		17930		
*		9	B		17945		
		10	W		17930		
		11	R	1 00	17935		
		12	B		18005		
		13	W		17945		
		14	B		18030		
		15	W		17945		
		16	R	1 14	17940		
		17	B		17945		

Range 459+01.14(N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1789 Pg. 67
X-Sec. No. ____ Date ____ Date 1947 Survey of Beach Erosion
Notes Chkd. ____ Checked ____ Survey by Kleneck Notes G.W.K. Date 12-4-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
461 + 51.37 400' out on range line *	461 + 51.37 at base line	1	R	125	18[illegible]5	Range Line ∡ = 180° at inst. sta.
		2	B		18[illegible]00	
		3	W		179[illegible]5	
		4	B		180[illegible]0	
		5	W		17[illegible]5	* Position of inst. sta. similar to
		6	R	139	180[illegible]0	that for range line 443+99.76 (N)
		7	B		17[illegible]50	
		8	W		179[illegible]0	
		9	B		180[illegible]5	
		10	W		180[illegible]0	
		11	R	148	180[illegible]0	
		12	B		180[illegible]0	
		13	W		180[illegible]0	
		14	B		180[illegible]5	
		15	W		180[illegible]5	
		16	R	150	18[illegible]5	End.

Range 461+51.37 (N)

F.B. 1[illegible] Pg. 68

Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 1347 No. X-Sec.

Survey by Wemeck Notes Gwk. 12-4-46 Notes Chkd. Checked

Indexed ALBERT E. TIMMONS 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	On	#	Color	Time	Hor. Ang.	Remarks	
446+49.79				[illegible]	[illegible]	[illegible]	
ON	443+99.76				[illegible]		
[illegible]	[illegible]				161-25		
OFFSET	[illegible]				160-50	* Position of inst. sta. same as	
*					[illegible]	That for range line 456+50.91(N)	
				12:52	[illegible]		
					157-20		
					[illegible]		
					[illegible]		
					[illegible]		
				1:00	[illegible]		
					[illegible]		
					133-50		
					130-25		
		15			125-35		
		16		1:13	125-05		
		17	B		[illegible]	END OF LINE	

Cut in.
459+01.14 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. [illegible] Division No. ____
X-Sec. Date ____ Date 1947 Survey of [illegible]
No. ____ Notes Chkd. ____ Checked ____ Survey by [illegible] Notes D.S. Date 12-4-46
Date ____ Date ____ Map No. ____ Indexed LIBERT R. TIMMONS Date ____

F.B. 1289 PG. 69

F.B. [illegible] PG. 70 | Job No. [illegible] | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of [illegible] | Date | Date 12+7 | No.

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

Indexed ALBERT E. TIMMONS | Date | Date | Date | No.

Cut in
461+51.37(N)

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

FORM 307 5M 1.46

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	12:50	6.4 - 8.0	6.9	1.2	5.7	Range 459+01.14
2	B		7.9 - 9.3	8.4		7.2	Going Out
3	W		9.0 - 10.8	9.6		8.4	
4	B		10.5 - 11.5	10.8		9.6	
5	W		12.2 - 13.2	12.5		11.3	
6	R	12:52	13.8 - 15.0	14.2	1.2	13.0	
7	B		15.2 - 17.2	15.9		14.7	
8	W		16.1 - 17.3	16.5		15.3	
9	B		17.2 - 18.3	17.6		16.4	
10	W		18.2 - 20.0	18.8		17.6	
11	R	12:59	19.2 - 20.8	19.7	1.2	18.5	
12	B		20.5 - 22.2	21.1		19.9	
13	W		22.0 - 23.0	22.3		21.1	
14	B		23.0 - 24.5	23.5		22.3	
15	W		24.0 - 25.5	24.5		23.3	
16	R	1:13	25.0 - 26.0	25.3	1.3	24.0	
17	B		26.0 - 27.0	26.3		25.0	End of line
~~18~~	~~W~~						
~~19~~	~~B~~						
20	W						

Boot.
~~459+01.14~~ (N)

Profile
No. ____ Notes Red Lewis Plotted H.U.M.H. Job No. 8412 Division No. ____
Date 12-31-46 Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd [illegible] Checked ____ Survey by Kleineck Notes GOH Date 12-4-46
No. ____ Date 1-6-47 Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 71

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 #	Color	B. S. Time	Meas. Depth	F. S. Botom	Ht. Tide	Adj. Depth	Remarks
1	R	1:25	26.0-27.7	26.6	1.4	25.2	Range 461+51.37(N) Going In.
2	B		25.0-27.0	25.7		24.3	
3	W		23.8-26.0	24.5		23.1	
4	B		22.8-24.0	23.2		21.8	
5	W		21.0-23.8	21.9		20.5	
6	R	1:37	20.0-21.9	20.6	1.6	19.0	
7	B		19.0-20.3	19.4		17.8	
8	W		18.0-19.6	18.5		16.9	
9	B		17.0-18.8	17.6		16.0	
10	W		16.0-17.4	16.4		14.8	
11	R	1:46	14.6-16.2	15.1	1.7	13.4	
12	B		12.9-14.1	13.3		11.6	
13	W		11.0-12.8	11.6		9.9	
14	B		9.6-12.0	10.4		8.7	
15	W		8.2-9.5	8.6		6.9	
16	R	1:49	6.5-9.0	7.3	1.7	5.6	End of line
~~17~~	~~B~~						
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat. 461+51.37(N)

F.B. 1289 PG. 72

Job No. 8412 Division No. ____ Notes Red. Rcur Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 12-31-46 Date 1941 No. ____ X-Sec.

Survey by Meineck Notes GOH 12-4-46 Notes Chkd. [illegible] Checked ____ No. ____

Indexed ALBERT B. TIMMONS Date ____ Date 1-6-47 Date ____

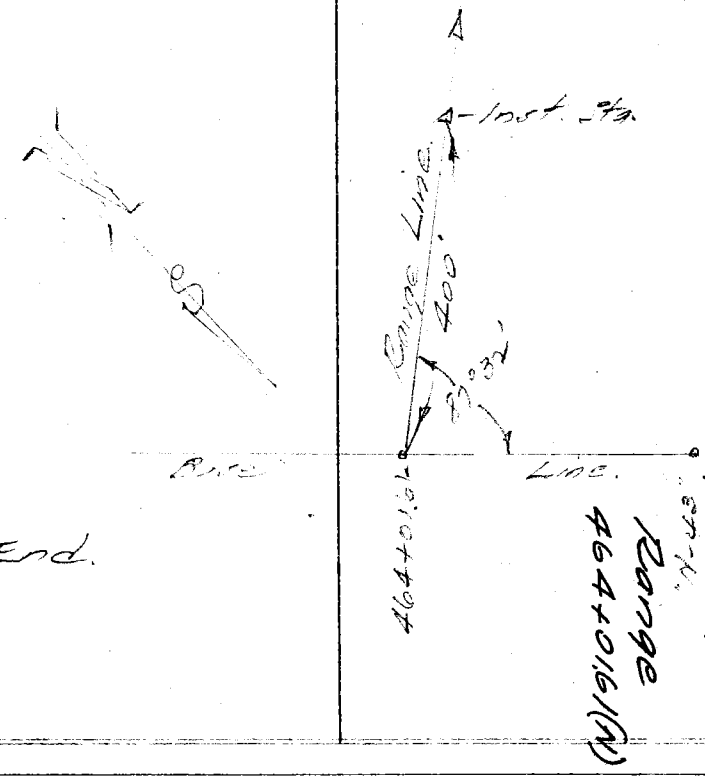
FORM 307 5M 1-46

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
464 + 01.61 — 400' out on range line	464 + 01.61 at base line	1	R	752	18025	Range Line ∠ = 180° at inst. Sta.	
		2	B		18025		
		3	W		18025		
		4	B		18000		
		5	W		17925		
		6	R	809	18000		
		7	B		18010		
		8	W		18015		
		9	B		18000		
		10	W		18010		
		11	R	817	17930		
		12	B		17920		
		13	W		18000		
		14	B		18000		
		15	W		18000		
		16	R	819	17945	End.	



Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 73
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Klemcek Notes GWK Date 12-5-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
466 +51.85 400' out on range line.	466 +51.85 at base line	1	R	827	17975	Range Line ∡ = 180° at inst. Sta.
		2	B		18025	
		3	W		18025	
		4	B		18030	
		5	W		18025	
*		6	R	832	17925	* Inst. Sta. similar to that shown on preceding page.
		7	B		17950	
		8	W		18020	
		9	B		18000	
		10	W		18025	
		11	R	840	17950	
		12	B		17945	
		13	W		18000	
		14	B		18000	
		~~15~~	~~W~~		~~18050~~	End.

Range 466 + 51.85 (N)

F.B. 1289 PG. 74 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Heinrich Notes 12-5-46 - SWR Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date Date

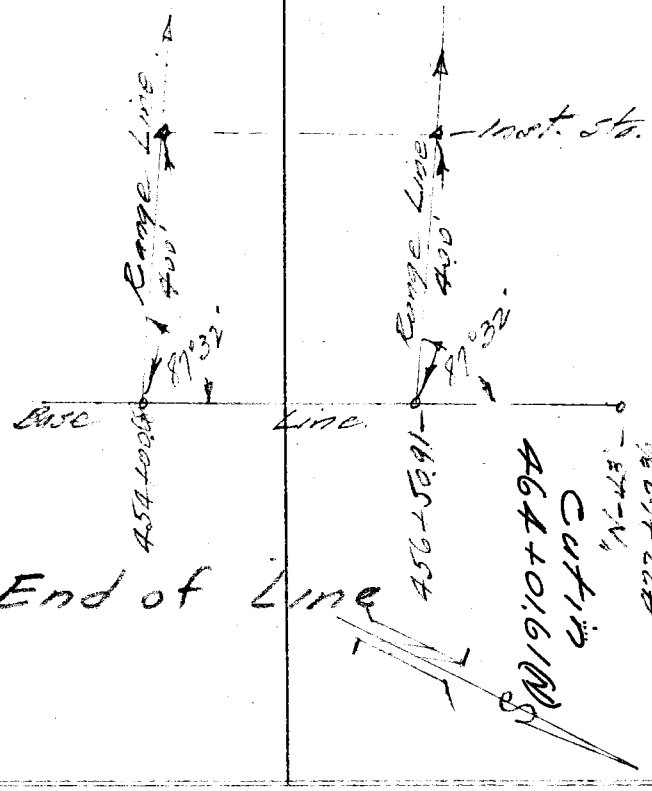
FORM 307 5M 1-46

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
456+50.91	454+00.68	1		7:5~~7~~ 2	111°-30'	[illegible] 464+01.61 (N)	
ON 400'	on 400'	2			113°-10'		
OFFSET	offset	3			116°-25'		
		4			118°-50'		
					121°-40'		
				8:10	128°-25'		
					132°-00'		
					137°-25'		
					139°-00'		
					144°-45'		
				8:~~13~~ 17	147°-20'		
					149°-00'		
					149°-50'		
					150°-30'		
					152°-00'		
				8:20	153°-20'	End of Line	



Profile
Notes Red ____ Plotted H.U.M.H. Job No. 8415 Division No. ____
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleineck Notes A.C.S. Date Dec 5, 46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 75

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
456+50.91	454+00.68	1	R	8:28	157°-25'	Range 466+51.85 (N)
ON		2	B		157°-50'	
400'		3	W		156°-50'	
Off Set		4	B		155°-40'	
*		5	W		154°-20'	* See sketch on preceding page.
		6	R	8:33	152°-25'	
		7	B		151°-50'	
		8	W		148°-15'	
		9	B		140°-20'	
		10	W		137°-10'	
		11	R	8:40	134°-10'	
		12	B		128°-40'	
		13	W		123°-20'	
		14	B		118°-40'	End of Line
		15	W		—	Missing.

Cut in 466+51.85 (N)

F.B. 1289 Pg. 76 Job No. [illegible] Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date 1947 No. X-Sec.
Survey by Klaneck Notes A.C.S. 12/5/46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	7:[illegible]	27.[illegible]	30.0	5.0	25.0'	Range 464+01.61(N)
	[illegible]		27.8-29.8	28.5		23.5	Going 111
			[illegible]-29.0	27.5		22.5	
			25.6-29.0	26.7		21.7'	
			24.0-27.8	25.3		20.3'	
		8:10	23.0-25.2	23.7	4.7	19.0'	
			22.0-24.1	22.7		18.0'	
			21.0-24.1	22.0		17.3'	
	[illegible]		20.0-23.2	21.3		16.6'	
	[illegible]		18.8-21.5	19.7		15.0'	
		8:17	17.7-20.2	18.7	4.5	14.2'	
	[illegible]		15.6-17.1	16.1		11.6'	
	[illegible]		14.0-16.5	14.8		10.3'	
	[illegible]		12.5-15.3	13.4		8.9'	
	[illegible]		11.0-14.3	12.1		7.6'	
	[illegible]	8:19	9.8-12.8	10.8	4.5	6.3'	[illegible]

Boot
464+01.61(N)

Profile
Notes Red Lowe Plotted H.U.M.H. Job No. 242 Division No.
No. Date 12-31-46 Date 1947 Survey of [illegible]
X-Sec. Notes Chkd [illegible] Checked Survey by [illegible] Notes D.S. Date 12-5-46
No. Date 1-6-47 Date Map No. Indexed ALBERT E. TIMMONS Date

F.B. 1289 PG. 77

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	[illegible]	10.0-13.0	11.0	4.3	6.7	
1	6		11.0-13.0	11.7		7.4	
[illegible]	[illegible]		12.0-[illegible]	12.5		8.2	
[illegible]	[illegible]		[illegible]	14.3		10.0	
[illegible]			[illegible]	16.3		12.0	
[illegible]	[illegible]	[illegible]	[illegible]	18.6	4.3	14.3	
	[illegible]		[illegible]	19.4		15.1	
			20.0-21.3	20.4		16.1	
	[illegible]		21.0-22.2	21.6		17.3	
10	[illegible]		22.0-[illegible]	22.9		18.6	
[illegible]	[illegible]	[illegible]	23.0-[illegible]	23.7	4.1	19.6	
[illegible]	[illegible]		24.5-[illegible]	25.1		21.*0	
[illegible]	[illegible]		26.0-27.3	26.4		22.3	
[illegible]	[illegible]		27.2-[illegible]	27.8		23.7	
[illegible]			28.0-[illegible]				

Boat 466+51.85 (N)

F.B. [illegible] PG. 78

Job No. [illegible] Division No. [illegible] Notes Red [illegible] Date 12-19-46 Plotted H.U.M.H. Date 1947 No. Profile

Survey of [illegible] Notes [illegible] Notes Chkd. [illegible] Checked [illegible] No. X-Sec.

Survey by [illegible] Date [illegible] Date 12-31-46 Date [illegible] No.

Indexed ALBERT E. TIMMONS

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
469 + 02.09 400' out on range line *	469 + 02.09 at base line.	1	R	904	18045	Range Line ∡ = 180° at inst. sta.
		2	B		18040	
		3	W		18035	
		4	B		18020	
		5	W		18025	* Inst. sta. similar to that shown for range line 464+01.61 (N)
		6	R	927	18010	
		7	B		18000	
		8	W		17940	
		9	B		18010	
		10	W		18000	
		11	R	938	17935	
		12	B		17935	
		13	W		17940	
		14	B		18000	
		15	W		17940	
		16	R	94	18000	End.

Range. 469+02.09 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8442 Division No. ____ F.B. 1289 Pg. 79
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleinert Notes Gunk Date 12-5-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
471 + 52.33 400' out on range line *	471 + 52.33 at base line	1	R	950	18[illegible]0	Range Line ∠ = 180° at inst. sta.
		2	B		[illegible]	
		3	W		17[illegible]5	
		4	B		18[illegible]5	
		5	W		18[illegible]0	* Inst. sta. similar to that shown for range line 464+ 01.61(N)
		6	R	953	18[illegible]0	
		7	B		18[illegible]0	
		8	W		18[illegible]0	
		9	B		18[illegible]0	
		10	W		[illegible]	
		11	R	1001	17[illegible]	
		12	B		18[illegible]0	
		13	W		18[illegible]	
		14	B		17[illegible]0	
		15	W		18[illegible]5	

Range 471+52.33(N)

F.B. 1289 PG. 80 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Hemet Notes SAM 12-5-46 Notes Chkd. Checked No.
Indexed ALBERT B. TIMMONS Date 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	
456+50.91	454+00.68	1	R	9:05	121°-25'	Range 469+02.09 (N)	
ON	on 400'	2	B		122°-55'		
400'	offset	3	W		127°-30'	*	
Off Set		4	B		129°-30'	See sketch for range line	
*		5	W		132°-05'	46.4+01.61 (N)	
		6	R	9:28	137°-50'		
		7	B		143°-50'		
		8	W		146°-40'		
		9	B		155°-05'		
		10	W		157°-35'		
		11	R	9:39	157°-45'		
		12	B		159°-00'		
		13	W		159°-25'		
		14	B		160°-30'		
		15	W		161°-15'		
		16	R	9:42	162°-25'		

Cut in.
469+02.09 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 81
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleineck Notes A.C.S. Date 12/5/46
No. ____ Date ____ Date ____ Map No. ____ Indexed LBERT E. TIMMONS Date ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

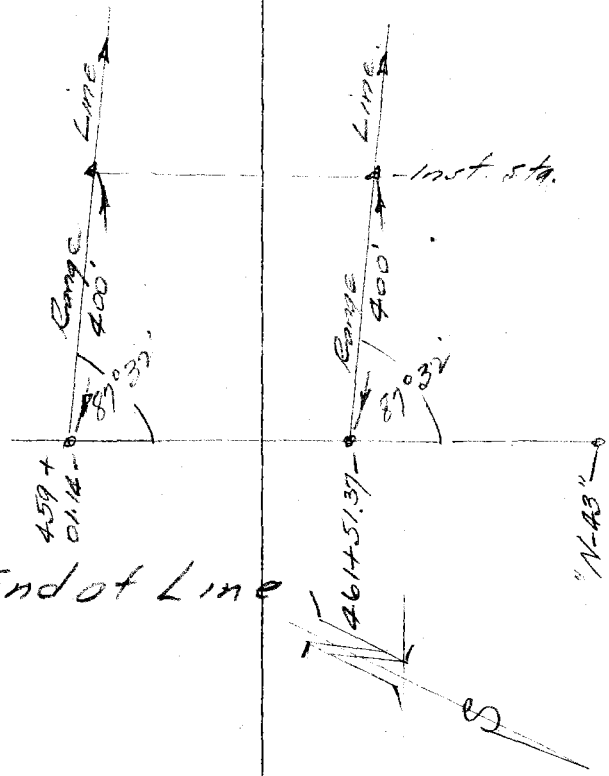
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. Sight At	On	#	Color	Time	Hor. Ang.
461+51.37	459+01.14	1	R	9:51	157°-10'
ON	on	2	B		156°-10'
900'	400' offset	3	W		155°-20'
off Set		4	B		154°-25'
		5	W		153°-25'
		6	R	9:54	153°-00'
		7	B		152°-15'
		8	W		151°-25'
		9	B		148°-40'
		10	W		140°-20'
		11	R	10:01	135°-40'
		12	B		126°-35'
		13	W		120°-00'
		14	B		118°-05'
		15	W		115°-55'

Remarks

Range 471+52.33 (N)



End of Line

Cut in ~~469+02.04 A~~ 471+52.33 (N)

F.B. 1289 PG. 82 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Kleineck Notes A.C.S 12/5/46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	9:04	28.0-29.8	28.6	3.6	25.0'	RANGE [illegible]
2	[illegible]		27.0-29.2	27.7		24.1'	GOING IN
3	[illegible]		[illegible]	26.2		22.6'	
4	[illegible]		24.[illegible]	25.0		21.4'	
5	[illegible]		23.0-26.0	24.0		20.4'	
6	[illegible]	9:37	22.0-24.8	22.9	3.1	19.8'	
7			20.8-22.8	21.5		18.4'	
8	[illegible]		18.0-23.0	20.3		17.2'	
9	[illegible]		[illegible]	18.7		15.6'	
10			15.8-19.0	17.5		14.4'	
11		9:37	15.5-17.3	16.1	2.9	13.2'	
12			14.0-15.7	14.6		11.7'	
13			12.8-15.8	13.8		10.8'	
14			11.7-13.5	12.3		9.4'	
15			10.0-11.8	10.6		7.7'	
16	[illegible]	9:41	8.3-10.0	8.9	2.9	6.0'	END [illegible]

Boat 469+02.09(N)

Profile
No. _____ Date 1-2-47 Date 1947 Survey of BEACH FRONT
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by [illegible] Notes D.S. Date 12-5-46
No. _____ Date 1-6-47 Date _____ Map No. _____ Indexed ALBERT E. TIMMONS Date _____

Notes Red. [illegible] Plotted H.U.M.H. Job No. [illegible] Division No. _____
F.B. 1389 Pg. 83

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 #	Color	B. S. Time	H. L. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
		7:50	0-10	9.7'	2.7	7.0'	
			10.0-[illegible]	10.6'		7.9'	
			[illegible]-14.0	12.6'		9.9'	
			12.1-14.3	12.8'		10.1'	
			12.2-[illegible]	14.9'		12.2'	
		9:52	[illegible]	15.6'	2.7	12.9'	
			[illegible]	17.1'		14.4'	
			17.0-[illegible]	17.7'		15.0'	
			18.0-[illegible]	18.6'		15.9'	
			[illegible]	19.7'		17.0'	
		10:00	[illegible]	21.7'	2.6	19.1'	
			23.0-24.3	23.5'		20.9'	
			[illegible]-27.0	25.6'		23.0'	
			[illegible]	26.6'		24.0'	
			27.0-[illegible]	27.7'		25.1'	

Boat.
471+52.33 (N)

F.B. [illegible] PG. 84

Job No. [illegible] Division No. [illegible] Notes Red. [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 1-2-47 Date 1947 No. X-Sec.

Survey by [illegible] Notes D.S. [illegible] Notes Chkd [illegible] Checked [illegible]

Indexed ALBERT E. TIMMONS Date [illegible] Date 1-6-47 Date [illegible] No.

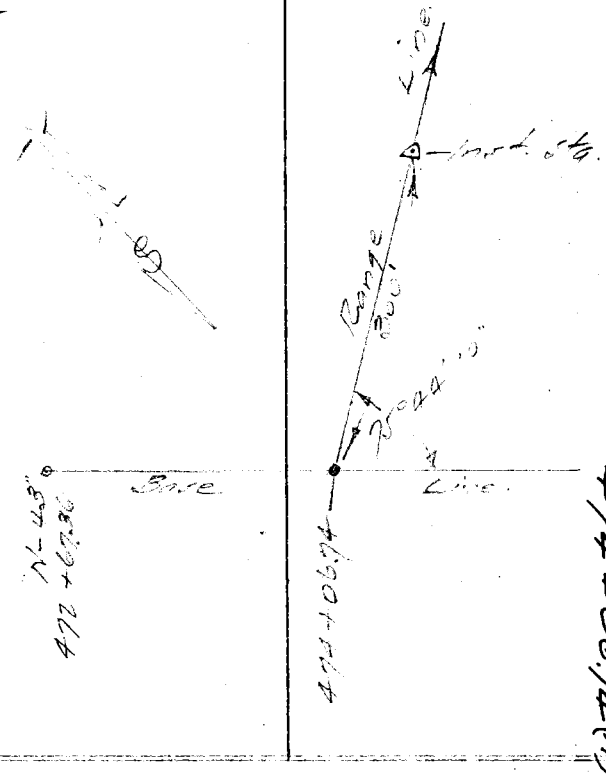
FORM 307 5M 1-46

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. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
474	474	1	R	10 39	18 00	Range Line ∡ = 180° at inst. sta.
+	+	2	B		18050	
0 6.74	0 6.74	~~3~~	~~W~~		~~18025~~	out
—	at	~~4~~	~~B~~		~~18040~~	out.
300'	[illegible]	5	W		180 00	
out	[illegible]	6	R	10 55	18025	
on	[illegible]	7	B		17950	
range		8	W		180 00	
line		9	B		18005	
		10	W		18000	
		11	R	11 09	180 00	
		12	B		180 05	
		13	W		180 45	



Range 474+06.74 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 842 Division No. ____ F.B. 1289 Pg. 85
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Hlewicz Notes Gulk Date 12-5-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
476+	476+	1	R	805	180 20	Range Line ∠ = 180° at inst. Sta.
64.69	64.69	2	B		180 15	
300'	at	3	W		180 00	
out	base	4	B		179 45	Note: Position of inst. Sta.
on	line	5	W		180 20	similar to that on pre-
range		6	R	821	180 25	ceding page.
line		7	B		179 55	
		8	W		180 00	
		9	B		180 20	
		10	W		180 10	
		11	R	827	180 20	
		12	B		180 25	
		13	W		180 25	
		14	B		180 10	
		15	W		180 25	
		16	R	828	180 00	
		17	B		180 00	
		18	W		180 00	
		19	B		180 20	End.

Range 476+64.69(N)

F.B. 1389 PG. 86 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date 1947 No. X-Sec.
Survey by Kleneck Notes GWK 12-9-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date

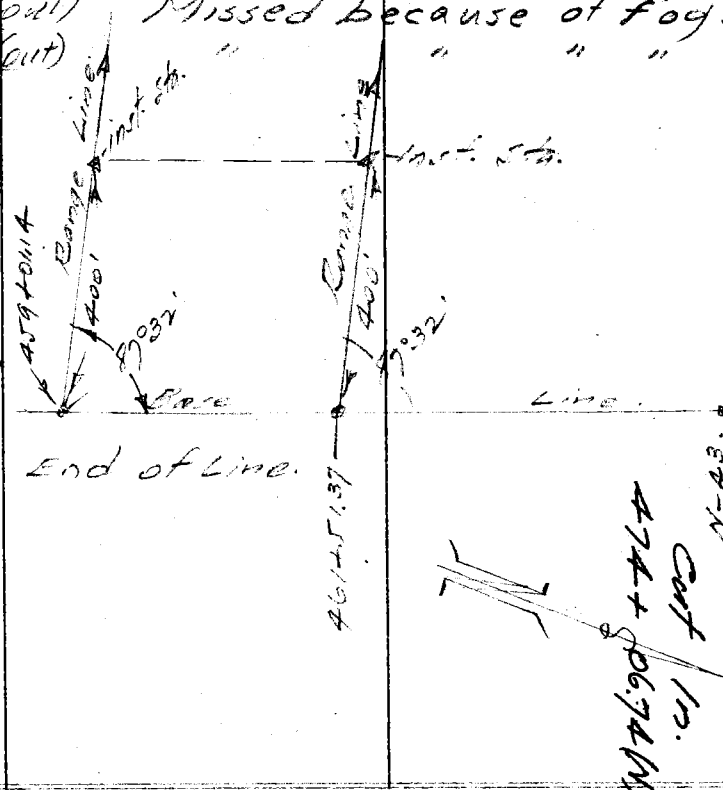
FORM 307 5M 1-46

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
461+51.37	459+01.14	1	R	10:40	121°-40'		Range 474+06.74 (N)
ON		2	B		123°-00'		Poor Vision (Fog)
900'		3	W		"	(out)	Missed because of fog.
Offset		4	B		"	(out)	" " " "
		5	W		129°-30'		
		6	R	10:56	132°-55'		
		7	B		138°-00'		
		8	W		143°-35'		
		9	B		146°-30'		
		10	W		152°-20'		
		11	R	11:09	156°-20'		
		12	B		158°-05'		
		13	W		159°-05'		End of Line.



Profile. Notes Red ____ Plotted H.U.M.H. Job No. 841V Division No. ____ F.B. 1389 PG. 87
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleineck Notes A.C.S. Date 12/5/96
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

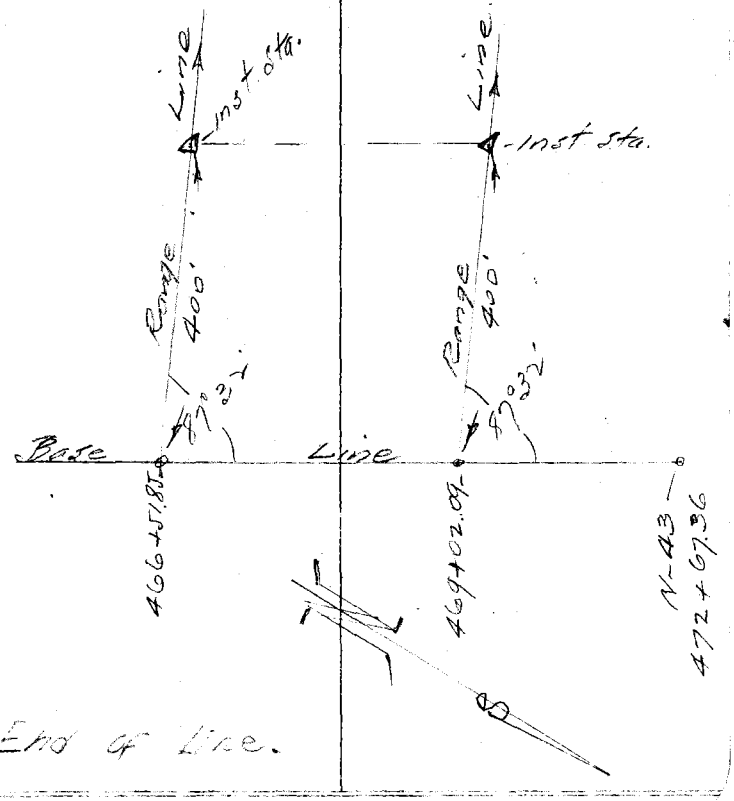
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1/2 PG. 68 | Job No. P412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Reach Kings Notes Date Date 1942 No. X-Sec.
Survey by Kingsley Notes Chkd. Checked No.
Indexed ALBERT G. TIMMONS Date Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
469+[illegible]	469+[illegible]	1	R	[illegible]			Range 476+64.69 (N)
-N	-N	2	B		[illegible]		
On	On						
400'	400'	3	W		115 [illegible]		
[illegible]	[illegible]	4	B		118 [illegible]		
		5	W		12[illegible]		
		6	R	8:20	1[illegible]		
		7	B		1[illegible]		
		8	W		12[illegible]		
		9	B		14[illegible]		
		10	W		[illegible]		
		11	R	8:26	[illegible]		
		12	B		15[illegible]		
		13	W		14[illegible]		
		14	B		15[illegible]		
		15	W		15[illegible]		
		16	R	[illegible]	[illegible]		
		17	B		15[illegible]		
		18	W		150[illegible]		
		19	B		15[illegible]		End of Line.

Cut in. 476+64.69 (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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	10:37	27.0-28.1	27.4'	1.9	25.5'	[illegible] 474+06.74 [illegible]
2	B		25.8-[illegible].0	26.5'		24.6'	[illegible]
~~3~~	~~[illegible]~~		~~24.[illegible]~~	~~out~~			
~~4~~	~~[illegible]~~		~~2[illegible]-25.1~~	~~out~~			
5	[illegible]		2[illegible].0-24.0	22.7'		20.8'	
6	R	10:[illegible]	20.[illegible]-[illegible]	21.7'	1.6	20.1'	
7	B		[illegible]	20.2'		18.6'	
8	[illegible]		18.5-[illegible]	19.3'		17.7'	
9	[illegible]		17.2-[illegible]	18.0'		16.4'	
10			[illegible].0-[illegible].0	17.3'		15.7'	
11	[illegible]	11:[illegible]	15.0-[illegible]	15.9'	1.3	14.6'	
12	[illegible]		13.0-16.0	14.0'		12.7'	
13			10.0-13.[illegible]	11.3'		10.0'	[illegible]

Boat
474+06.74 (N)

Profile Notes Red LCWR Plotted H.U.M.H. Job No. [illegible] Division No. ____ F.B. 1289 PG. 89
No. ____ Date 1-2-46 Date 1947 Survey of [illegible]
X-Sec. Notes Chkd [illegible] Checked ____ Survey by [illegible] Notes [illegible] Date 12-5-46
No. ____ Date 1-6-47 Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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.

F.B. 1/2 Pg. 90 | Job No. 8 | Division No. | Notes Red | Plotted H.U.M.H. | Profile No.
Survey of | Notes Gold 12-9-46 | Date 2/19/46 | Date 1947 | X-Sec. No.
Survey by | Notes | Notes Chkd. | Checked | No.
Indexed ALBERT E. TIMMONS | Date | Date 1-2-47 | Date

STATION #	B. S. Color	H. I. Time	F. S. Meas. Depth	ELEV. Botom	Ht. Tide	Adj. Depth	Remarks
		8:06	31.0-32.1	31½	7.2	24.2	Range 476+64.69
			30.0-31.0	30½		23.1	Going in.
			28.6-30.0	29½		21.9	
			27.0-28.2	27½		20.2	
			25.0-26.8	25½		18.4	
		8:21	24.0-25.0	24½	7.3	17.0	
			23.0-24.0	23½		16.0	
			21.8-23.0	22½		14.9	
			20.4-21.3	20½		13.4	
			19.0-20.1	19½		12.1	
		8:27	17.5-18.5	17½	7.3	10.5	
			16.0-17.0	16½		9.0	
			14.3-15.3	14½		7.3	
			13.0-14.7	13½		6.3	
			11.8-12.8	12½		4.8	
		8:30	10.4-11.2	10½	7.3	3.4	Boat 476+64.69(A)
17	B		9.2-10.9	9½		2.5	
18	W		8.0-9.3	8½		1.1	
19	B		7.4-8.7	7½		0.5	End of line
~~20~~	~~W~~						

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	
479+	479+	1	R	837	18030	Range Line ∡ = 180° at inst. Sta.	
22.64	22.64	2	B		18040		
300'	at	3	W		18025		
out	base	4	B		18015		
on	line	5	W		18010	Note: Position of inst. Sta.	
range		6	R	845	18035	similar to that for range	
line		7	B		18100	line 474+06.74	
		8	W		18000		
		9	B		18030		
		10	W		18000		
		11	R	849	17940		
		12	B		17940		
		13	W		18020		
		14	B		18010		
		15	W		18055		
		16	R	904	18035		
		17	B		18000		
		18	W		18020		
		19	B		17950	End.	

Range
479+22.64 (N)

Profile
No. ____ Date ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Meinecke Notes GWK Date 12-9-46
Date ____ Date ____ Map No. ____ Indexed ALBERT R. TIMMONS Date ____

F.B. 1289 PG. 91

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
481+ 8059	481+ 8059 at base line	1	R	923	17950	Range Line ∡ = 180° at inst. Sta.
300' out on range line.		2	B		17940	
		3	W		17955	
		4	B		17945	
		5	W		17950	Note: Position of inst. Sta. similar to that for range line 474+06.74.
		6	R	735	17940	
		7	B		17955	
		8	W		17955	
		9	B		17955	
		10	W		17955	
		11	R	944	18000	
		12	B		17940	
		13	W		18005	
		14	B		17940	
		15	W		18000	
		16	R	946	17955	
		17	B		18005	
		18	W		17900	End

Range 481+80.59(N)

F.B. 1989 PG. 92 Job No. 5412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Meneck Notes Gwk 12-9-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS 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. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
453+02 [illegible]	456+51 [illegible]	1	R	8:37	[illegible]	Range 479+22.64 (N)
[illegible]	[illegible]	2	B		[illegible]	
[illegible]	[illegible]	3	W		160-10	
[illegible]	[illegible]	4	B		158-05	
		5	W		156-10	
		6	R	8:44	154-45	
		7	B		154-15	
		8	W		152-35	
		9	B		151-20	
		10	W		150-15	
		11	R	8:48	147-55	
		12	B		145-30	
		13	W		139-45	
		14	B		130-15	
		15	W		127-30	
		16	R	9:04	126-05	
		17	B		123-20	
		18	W		120-30	
		19	B		118-10	End of Line.

Cut in.
479+22.64 (N)

Profile
Notes Red. ____ Plotted H. U. M. H. Job No. 8412 Division No. ____
No. ____ Date ____ Date 1947 Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by KLEINSCH Notes D.S. Date 12-9-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 93

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
459+02		1	R	9:22	123-30	Range 481+80.59 (N)
-N	466+51	2	B		125-30	
ON	-N	3	W		130-25	
[illegible]	ON	4	B		13[illegible]-0	
	4[illegible]	5	W		135-25	
		6	R	9:36	140-25	
		7	B		1[illegible]	
		8	W		151-30	
		9	B		155-25	
		10	W		15[illegible]-0	
		11	R	9:43	157-25	
		12	B		158-50	
		13	W		15[illegible]-0	
		14	B		160-[illegible]	
		15	W		161-30	
		16	R	9:46	162-25	
		17	B		165-[illegible]0	
		18	W		167-25	End of Line.

Cut in 481+80.59 (N)

F.B. 1289 PG. 94 | Job No. 8412 | Division No. | Notes Red. | Plotted | H. U. M. H. | Profile
Survey of Beach Erosion | Date | Date 1947 | No. | X-Sec.
Survey by Kleineck | Notes D.J. 12-9-46 | Notes Chkd. | Checked | No.
Indexed ALBERT E. TIMMONS | Date | 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 IN 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 1-2-48 Notes Chkd Date 1-6-47

Plotted H.U.M.H. Date ____ Checked ____ Date ____

Job No. ____ Survey of 1947 Survey by ____ Map No. ____

Division No. ____ Notes Book Date 12-9-46 Indexed ALBERT E. TIMMONS Date ____

F.B. 1287 Pg. 25

STATION	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
		8:39	7.2-8.2	7.5	7.3	0.2'	Raise [illegible]
			8.0-9.0	8.3		1.0'	Going Out
			9.0-10.8	9.6		2.3'	
			10.5-11.9	11.0		3.7'	
			12.6-13.3	12.8		5.5'	
		8:45	13.9-15.7	14.5	7.3	7.2'	
			15.1-16.2	15.5		8.2'	
			17.8 19.0	18.2		10.9'	
			19.0-20.4	19.5		12.2'	
			20.2-21.4	20.6		13.3'	
		8:50	21.0-22.4	21.5	7.3	14.2'	
			22.0-22.9	22.3		15.0'	
			23.0-24.0	23.3		16.0'	
			25.0-26.7	25.6		18.3'	
			26.0-26.8	26.3		19.0'	
		9:06	27.0-27.9	27.3	7.2	20.1'	
17	B		28.3 29.2	28.6		21.4'	
18	W		29.8-30.5	30.0		22.8'	
19	B		31.3-33.0	31.9		24.7'	End of line
~~20~~	~~W~~						

Boat
Elev. 22.64(?)

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.

F.B. 1189 PG. 46 Profile
Job No. 8412 Division No. Notes Red. Plotted H.U.M.H.
Survey of Beach Erosion Date 1-2-47 Date 1947 No.
Survey by Wenner Notes Chkd. Checked X-Sec.
Indexed ALBERT E. TIMMONS Notes Chkd. 12-9-46 Date 1-6-47 Date No.

STATION #	Color	B. S. Time	H.I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth		Remarks
1	R	9:24	31.1-32.3	31.5	7.2	24.3'	Range 481+80.59(N)	Going In.
2	B		29.4-31.2	30.0		22.8'		
3	W		28.0-29.5	28.5		21.3'		
4	B		26.0-27.3	26.4		19.2'		
5	W		24.5-26.3	25.1		17.9'		
6	R	9:37	23.3-24.3	23.6	7.1	16.5'		
7	B		22.0-23.2	22.4		15.3'		
8	W		21.0-23.0	21.7		14.6'		
9	B		19.2-20.8	19.7		12.6'		
10	W		17.0-18.0	17.3		10.2'		
11	R	9:45	15.0-16.3	15.4	7.0	8.4'		
12	B		13.8-14.9	14.2		7.2'		
13	W		12.3-13.7	12.8		5.8'		
14	B		11.2-12.2	11.5		4.5'		
15	W		10.0-11.8	10.6		3.6'	300 ft. 481+80.59(N)	
16	R	9:46	8.7-10.2	9.1	7.0	2.1'		
17	B		7.0-9.0	7.7		0.7'		
18	W		6.5-7.9	7.0		0.0'	End of line	
~~19~~	~~B~~							
~~20~~	~~W~~							

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
484+	484 +	1	R	956	18130	Range Line = 180° at inst. sta.
38.54	38.54	2	B		18030	
300'	at	3	W		18110	
out	base	4	B		18000	
on	line	5	W		18110	Note: Position of inst. sta.
range		6	R	1000	18030	similar to that for
line.		7	B		18130	range line 474+06.74.
		8	W.		17935	
		9	B		18020	
		10	W		18010	
		11	R	1009	18010	
		12	B		18000	
		13	W		18055	
		14	B		18000	
		15	W		18015	
		16	R	1021	18040	
		17	B		18000	End

Range
484 + 38.54 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Notes Chkd ____ Checked ____ Survey by Meineck Notes GWK Date 12.9.46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1259 Pg. 97

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
486+ 96.49	486+ 96.49 at base line	1	R	1031	18[illegible]5	Range Line ∡ = 180° at inst. Sta.
300' out on range line		2	B		179[illegible]	
		3	W		180[illegible]	
		4	B		17[illegible]5	
		5	W		18[illegible]5	Note: Position of inst. Sta. Similar to that for range line 474+06.74.
		6	R	1042	18000	
		7	B		179[illegible]0	
		8	W		179[illegible]0	
		9	B		179[illegible]5	
		10	W		18005	
		11	R	1050	18[illegible]5	
		12	B		179[illegible]5	
		13	W		18000	
		14	B		179[illegible]5	
		15	W		180[illegible]	
		16	R	1054	18000	
		17	B		180[illegible]5	
		18	W		18000	End.

Range 486+96.49 (N)

F.B. 1289 PG. 98

Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 1947 No. X-Sec.

Survey by Alexander Notes Bwk 12-9-46 Notes Chkd. Checked

Indexed ALBERT E. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
[illegible]	[illegible]	1	[illegible]	9:55	168-45	BANGE 484+38.54 (N)	
[illegible]	[illegible]	2	[illegible]		[illegible]-00		
[illegible]	[illegible]	3	[illegible]		[illegible]-50		
[illegible]	[illegible]	4	[illegible]		163-[illegible]		
		5			161-45		
		6	[illegible]	10:00	160-40		
		[illegible]	[illegible]		159-00		
		[illegible]	[illegible]		157-50		
		[illegible]	[illegible]		156-10		
		[illegible]	[illegible]		152-20		
		[illegible]	[illegible]	[illegible]:08	148-30		
		[illegible]	[illegible]		144-20		
		[illegible]	[illegible]		140-45		
		[illegible]	[illegible]		139-00		
		[illegible]	[illegible]		135-10		
		[illegible]	[illegible]	[illegible]:20	132-25		
		17	[illegible]		130-20	End of Line.	

Cut in.
484+38,54(N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H. U. M. H. Date ____ Job No. [illegible] Division No. ____
X-Sec. Notes Chkd ____ Checked ____ Date ____ Survey of [illegible] Erosion
No. ____ Date ____ Date ____ Survey by [illegible] Notes D. S. Date 12-9-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. [illegible] Pg. 99

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
469+02	466+51	1	R	10:31	13[illegible]	Range 486+96.49 (N)
[illegible]	[illegible]	2	B		134[illegible]	
[illegible]	[illegible]	3	W		138[illegible]	
[illegible]	[illegible]	4	B		14[illegible]	
		5	W		14[illegible]	
		6	R	10:42	14[illegible]	
		7	B		15[illegible]	
		8	W		15[illegible]	
		9	B		15[illegible]	
		10	W		16[illegible]	
		11	R	10:5[illegible]	[illegible]	
		12	B		161[illegible]	
		13	W		16[illegible]	
		14	B		16[illegible]	
		15	W		164[illegible]	
		16	R	10:5[illegible]	16[illegible]	
		17	B		16[illegible]	
		18	W		[illegible]	End of Line.

Cut in 486+96.49 (N)

F.B. 1289 PG. 100 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of BERCA EROSION Date Date 1947 No. X-Sec.
Survey by SCEINECK Notes [illegible] Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date 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.

Profile No.____ X-Sec. No.____ Notes Red Blue Date 1-2-47 Notes Chkd. HH Date 1-6-47 Plotted H.U.M.H. Date 1-7-47 Checked ____ Date ____ Job No. 5417 Division No. ____ Survey of Beach Erosion Survey by Merriman Map No. ____ Notes GOH Indexed ALBERT E. TIMMONS Date ____ Date 12-9-46 F.B. 1285 PG. 101

STATION #	Color	Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ft. Tide	Adj. Depth	Remarks
1	R	9:56	7.0-8.2	7.4	6.9	0.5'	Range 484+38.54(N)
2	B		8.0-9.2	8.4		1.5'	Going Out.
3	W		9.4-11.2	10.0		3.1'	
4	B		10.7-12.0	11.1		4.2'	
5	W		13.0-14.3	13.4		6.5'	
6	R	10:01	15.4-16.2	15.7	6.8	8.9'	
7	B		17.6-19.2	18.1		11.3'	
8	W		19.0-20.1	19.4		12.6'	
9	B		20.0-20.9	20.3		13.5'	
10	W		21.0-22.3	21.4		14.6'	
11	R	10:10	22.0-23.0	22.3	6.8	15.5'	
12	B		23.0-25.0	23.7		16.9'	
13	W		24.0-25.1	24.4		17.6'	
14	B		25.0-25.6	25.2		18.4'	
15	W		26.5-27.8	26.9		20.1'	
16	R	10:21	28.2-29.9	28.5	6.5	22.3'	
17	B		29.4-30.7	29.8		23.3'	End of line
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat.

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	10:31	29.5-30.4	29.9	6.3	23.5	Range 486+96.49(N) Going In
2	B		28.3-29.8	28.8		22.5	
3	W		26.6-28.1	27.1		20.8	
4	B		25.2-26.6	25.7		19.4	
5	W		23.8-25.1	24.2		17.9	
6	R	10:44	22.7-24.7	23.4	6.0	17.4	
7	B		21.4-22.7	21.8		15.8	
8	W		20.0-21.1	20.4		14.4	
9	B		19.0-20.7	19.6		13.6	
10	W		17.5-19.1	18.0		12.0	
11	R	10:51	16.0-16.8	16.3	5.8	10.5	
12	B		14.5-15.9	15.0		9.2	
13	W		13.0-14.3	13.4		7.6	
14	B		11.5-12.8	11.9		6.1	
15	W		10.0-11.0	10.3		4.5	
16	R	10:54	8.5-9.0	8.7	5.7	3.0	Boat 486+96.49(N)
17	B		7.2-8.2	7.5		1.8	
18	W		6.2-7.8	6.7		1.0	End of line
~~19~~	~~B~~						
~~20~~	~~W~~						

F.B. 1289 PG. 107

Job No. 8412 Division No. Notes Red Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 12-19-46 Date 1947 No.

Survey by Maineck Notes SOH 12-9-46 Notes Chkd. Checked X-Sec.

Indexed ALBERT E. TIMMONS Date Date 1-2-46 Date No.

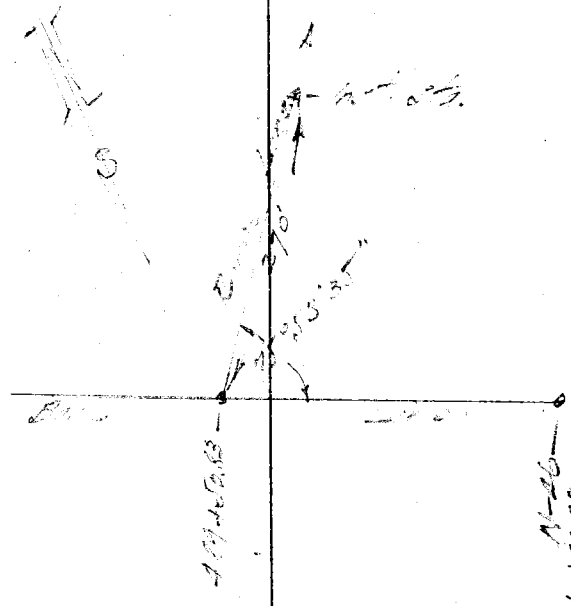
FORM 307 5M 1-46

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
489+	489+	1	R	11 03	180 15	Range Line ∡ = 180° at inst. sta
50.83	50.83	2	B		181 40	
—	at	3	W		179 25	
270'	base	4	B		180 35	
out	line	5	W		180 20	
on		6	R	11 06	179 50	
range		7	B		180 05	
line		8	W		180 20	
		9	B		180 20	
		10	W		180 20	
		11	R	11 12	180 20	
		12	B		180 30	
		13	W		180 05	
		14	B		180 00	
		15	W		180 30	
		16	R	11 25	180 20	
		17	B		180 10	
		18	W		179 40	



Range 489 + 50.83 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 103

X-Sec. No. ____ Date ____ Date ____ Date 1447 Survey of Beach Erosion

Notes Chkd. ____ Checked ____ Survey by Maineck Notes GWK Date 12-9-46

Date ____ Date ____ Map No. ____ Indexed GERRET E. TIMMONS Date ____

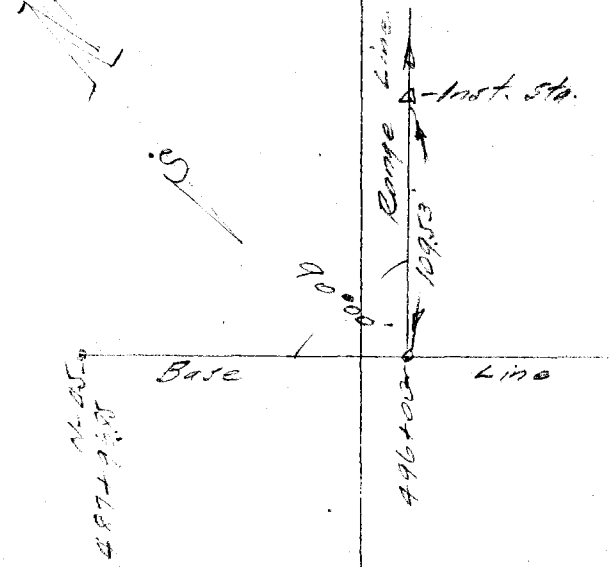
FORM 307 5M 1-46

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
496+00	496+00 at base line	1	R	11 51	179 55	Range Line ∡ = 180° at inst. Sta.
—		2	B		180 10	
109.53		3	W		180 15	* This sta. run instead of 495+90.
out on range line		4	B		180 00	
		5	W		180 10	
*		6	R	12 01	180 00	
		7	B		180 10	
		8	W		180 15	
		9	B		180 15	
		10	W		180 10	
		11	R	12 08	180 [illegible]	
		12	B		180 [illegible]	
		13	W		180 [illegible]	



Range 496+00(N)

F.B. 1289 PG. 104

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Hiemer Notes Gilk 12-9-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date Date Date No.

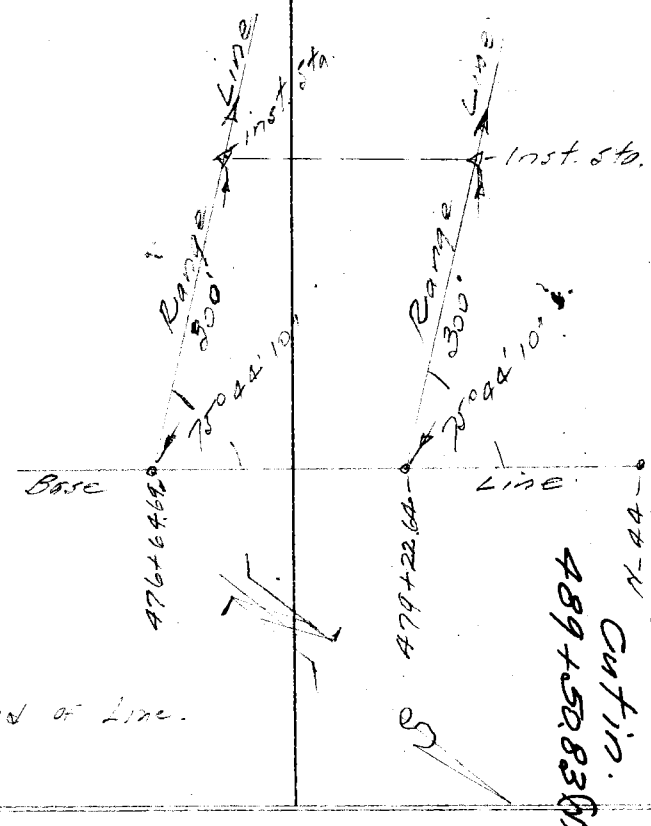
FORM 307 5M 1-46

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	On	#	Color	Time	Hor. Ang.	Remarks
479+22.64	476+64.69	1	R	11:03	169-00	Range 489+50.83 (N)
N	-N	2	B		167-00	
ON	ON	3	W		165-55	
300'	300'	4	B		164-30	
OFFSET	OFFSET	5	W		163-05	
		6	R	11:06	161-40	
		7	B		160-45	
		8	W		158-45	
		9	B		157-10	
		10	W		156-10	
		11	B	11:11	153-10	
		12	B		149-25	
		13	W		145-20	
		14	B		141-30	
		15	W		140-25	
		16	R	11:24	136-20	
		17	B		133-45	
		18	W		130-40	End of Line.



Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1789 Pg. 105
No. ____ Date ____ Date 1947 Survey of BEACH EROSION
X-Sec. Notes Chkd ____ Checked ____ Survey by KLEINECK Notes U.S. Date 12-9-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
479+22.66 -N		1	R	11:52	134-55	Range 496+00 (N)
ON	476+64.59 -N	2	B		137-45	
[illegible]	ON	3	W		141-45	
[illegible]	[illegible]	4	B		14[illegible]-[illegible]5	
		5	W		[illegible]	
		6	R	12:00	149-[illegible]5	
		7	B		15[illegible]	
		8	W		154-[illegible]5	
		9	B		157-[illegible]5	
		10	W		15[illegible]	
		11	R	12:07	16[illegible]-00	
		12	B		164-[illegible]0	
		13	W		167-[illegible]5	End of Line.

Cont in. 496+00 (N)

F.B. 1389 PG. 106

Job No. 8412 Division No. Notes Red Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Kleinesk Notes D.J. 12-9-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date 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.

Profile No. ____ X-Sec. No. ____

Notes Red. Plotted H.U.M.H. Job No. 8412 Division No. ____
Date 1-2-47 Date 1947 Survey of Beach Erosion
Notes Chkd. Checked Survey by Memmech Notes 8704 Date 12-9-46
Date 1-6-47 Date ____ Map No. ____ Indexed LORENT E. TIMMONS Date ____

F.B. 139 PG. 107

STATION #	Color	B.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ft. Tide	Adj. Depth	Remarks
1	R	11:05	5.6-6.8	6.0	5.4	0.6'	Range 489+50.83(N)
2	B		6.8-8.1	7.2		1.8'	Going Out.
3	W		8.0-9.0	8.3		2.9'	
4	B		9.0-10.1	9.4		4.0'	
5	W		10.5-11.7	10.2		5.5'	
6	R	11:08	12.0-13.3	12.4	5.4	7.0'	
7	B		13.0-13.9	13.3		7.9'	
8	W		14.5-15.2	14.9'		9.3'	
9	B		16.0-17.0	16.3'		10.9'	
10	W		17.0-17.8	17.3		11.9 ~~12.1~~	
11	R	11:14	18.5-19.2	18.7	5.2	13.5'	
12	B		19.9-21.2	20.3'		15.1'	
13	W		21.0-21.9	21.3'		16.1'	
14	B		22.2-23.2	22.5		17.3'	
15	W		23.5-24.2	23.9		18.5'	
16	R	11:26	25.0-25.7	25.2	5.0	20.2'	
17	B		26.5-27.8	26.9'		21.9'	
18	W		28.6-29.7	29.0'		24.0'	End of line
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat.
489+50.83(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	Color	B. S. Time	H. I. Meas. Depth	F. S. Botom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11:53	27.6-28.8	28°	4.0	24°	Range 496+00 (N) Going In.
2	B		26.0-27.0	26¾		22.3	
3	W		24.4-25.5	24⅝		20.8	
4	B		23.2-24.0	23½		19½	
5	W		21.8-22.8	22¼		18¼	
6	R	12:01	19.0-20.5	19½	3.7	15.8	
7	B		16.9-18.2	17¾		13.6	
8	W		15.8-17.2	16¾		12.6	
9	B		14.1-16.3	14⅝		11.1	
10	W		12.9-14.7	13½		9.8	
11	R	12:09	10.4-11.8	10¾	3.5	7.4	
12	B		9.0-10.1	9¼		5.9 ~~3.9~~	
13	W		8.0-10.0	8¾		5.2 ~~3.2~~	End of line
14	B						
15	W						
16	R						
17	B						
18	W						
19	B						
20	W						

Boat 496+00 (N)

F.B. 1947 Pg. 108 Profile
Job No. 5412 Division No. Notes Red. Plotted H. U. M. H. No. 1947
Survey of Beach Erosion Date 12-19-46 Date X-Sec.
Survey by Weiner Notes Fo. 4 12-9-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date Date 1-9-47 Date

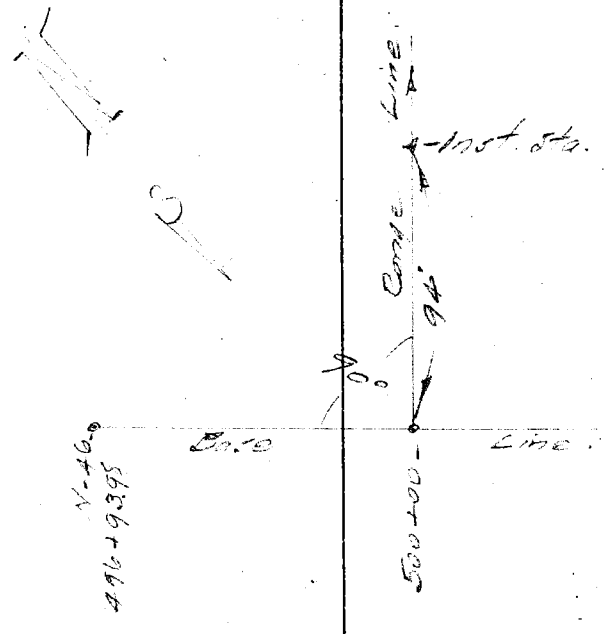
FORM 307 5M 1-46

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+00	500+00 at base line	1	R	12 19	180 10	Range Line ∡ = 180° at inst. sta.
94' out on range line		2	B		180 30	
		3	W		180 20	
		4	B		180 05	
		5	W		180 10	
		6	R	12 24	180 [illegible]	
		7	B		180 [illegible]	
		8	W		180 05	
		9	B		179 40	
		10	W		179 55	
		11	R	12 34	180 00	
		12	B		180 05	
		13	W		179 50	
		14	B		179 45	
		15	W		180 00	
		16	R	12 [illegible]	180 00	
		17	B		179 50	



Range 500+00 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 109

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

Survey by Meineck Notes [illegible] Date 12-9-'46

Map No. ____ Indexed LAHRY E. TIMMONS Date ____

FORM 307 5M 1-46

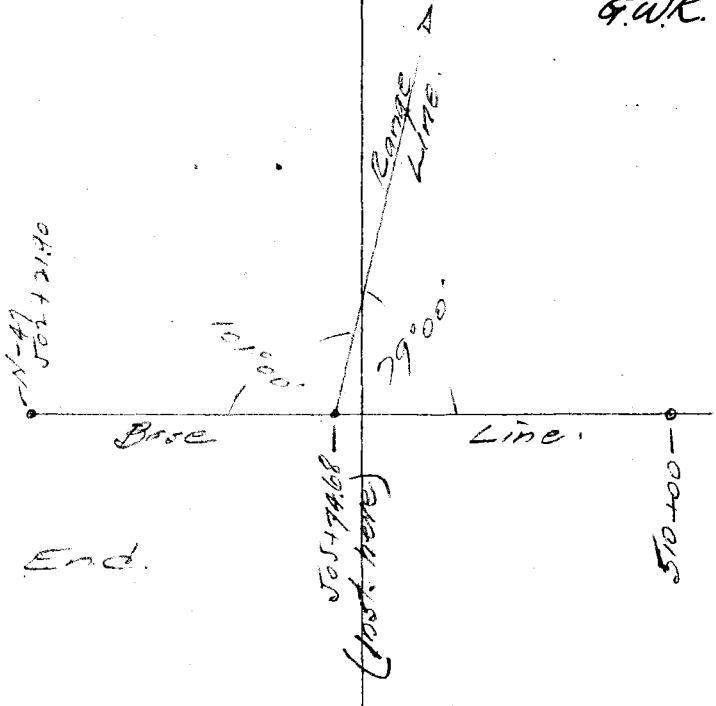
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
505+74.68 (N)	"N-47" 502 + 21.90	1	R	104	101 15 ~~180 15~~	Range Line ∡ = 180° at inst. sta.
		2	B		100 35 ~~179 35~~	
		3	W		101 10 ~~180 10~~	Note: Use corrections in ink G.W.K.
		4	B		100 30 ~~179 30~~	
		5	W		101 05 ~~180 05~~	
		6	R	115	100 45 ~~179 45~~	
		7	W		101 20 ~~180 20~~	
		8	W		101 00 ~~180 00~~	
		9	B		101 10 ~~180 10~~	
		10	W		101 00 ~~180 00~~	
		11	R	121	101 05 ~~180 05~~	
		12	B		100 30 ~~179 30~~	
		13	W		101 00 ~~180 00~~	
		14	B		101 00 ~~180 00~~	
		15	W		100 45 ~~179 45~~	
		16	R	128	100 40 ~~179 40~~	End.

Range 505+74.68 (N)



F.B. 1289 PG. 110

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Hlemack Notes GWK 12-9-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS 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	On	#	Color	Time	Hor. Ang.	Remarks	
479+22 64 -N ON 300' OFFST	476+64 69 -N ON 300' OFFST	1	R	12:[illegible]	174-35	Change 500+00 (N)	
		2	B		174-00		
		3	W		173-10		
		4	B		172-10		
		5	W		170-15		
		6	R	12:24	167-30		
		7	B		16[illegible]-35		
		8	W		163-50		
		9	B		160-25		
		10	W		159-15		
		11	R	12:33	155-45		
		12	B		152-20		
		13	W		149-10		
		14	B		147-30		
		15	W		145-05		
		16	R	12:46	142-20		
		17	B		138-50	End of Line.	

Cut in 500+00 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8212 Division No. ____ F.B. 1289 Pg. 111
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Kleinecke Notes D.C. Date 12-9-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
479+22.65		1	R	1:03	148-20	Range 505+74.68(N)
ON	476+64.69	2	B		152-15	
[illegible]	ON	3	W		154-15	
	[illegible]	4	B		156-10	
		5	W		158-05	
		6	R	1:15	160-10	
		7	B		162-15	
		8	W		165-15	
		9	B		167-25	
		10	W		169-10	
		11	R	1:22	171-30	
		12	B		172-15	
		13	W		173-20	
		14	B		175-15	
		15	W		175-10	
		16	R	1:27	176-20	End of Line.

Cut in 505+74.68(N)

F.B. 1289 PG. 112

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of BEACH EROSION Date Date 1947 No. X-Sec.

Survey by KLEINECK Notes D.S. 12-9-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS 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.

Profile No. ____ Date 1-2-47 X-Sec. No. ____ Date ____

Notes Red L.C.Y. Plotted H.U.M.H. Job No. 5417 Division No. ____
Notes Chkd. [illegible] Date 1-6-47 Checked ____ Date ____ Survey of Beach Erosion
Survey by Members Notes 9 PGS. Date 12-9-46
Map No. ____ Indexed ____ Date ____

F.B. 128 PG. 115

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	12:20	6.0 7.2	6.4	3.1	3.3	Range 500+00(N) Going Out
2	B		7.5 - 9.0	8.0		4.9	
3	W		8.6 - 11.1	9.4		6.3	
4	B		9.5 - 10.0	9.7		6.6	
5	W		11.5 - 12.4	11.8		8.7	
6	R	12:26	12.6 - 13.3	12.8	3.0	9.8	
7	B		13.6 - 15.0	14.1		11.1	
8	W		14.4 16.0	14.9		11.9	
9	B		16.8 - 17.8	17.1		14.1	
10	W		18.2 - 19.7	18.7		15.7	
11	R	12:34	20.9 - 22.0	21.3	2.8	18.5	
12	B		22.0 22.8	22.3		19.5	
13	W		23.0 - 24.0	23.3		20.5	
14	B		24.0 - 25.0	24.3		21.5	
15	W		25.0 - 25.9	25.3		22.5	
16	R	12:47	26.0 - 27.0	26.3	2.2	24.1	
17	B		27.0 28.8	27.6		25.4	End of line
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

Boat
500+00(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 #	Color	B. S. Time	Meas. Depth	F. S. Botom	Ht. Tide	Adj. Depth		Remarks
1	R	1:05	26.7-28.4	27.3	1.7	25.6	Range 505+74.68(N)	Going In.
2	B		25.0-26.2	25.4		23.7		
3	W		23.8-25.0	24.2		22.5		
4	B		22.5-23.8	22.9		21.2		
5	W		21.3-23.0	21.9		20.2		
6	R	1:15	20.2-21.6	20.7	1.5	19.2		
7	B		19.0-21.0	19.7		18.2		
8	W		17.8-19.5	18.4		16.9		
9	B		16.0-18.0	16.7		15.2		
10	W		14.8-16.0	15.2		13.7		
11	R	1:24	13.8-15.0	14.2	1.2	13.0	Boat. 505+74.68(N)	
12	B		12.6-13.8	13.0		11.8		
13	W		11.5-14.1	12.4		11.2		
14	B		10.2-11.7	10.7		9.5		
15	W		9.0-11.3	9.8		8.6		
16	R	1:29	8.7-10.0	9.1	1.1	8.0	End	of line
~~17~~	~~B~~							
~~18~~	~~W~~							

F.B. 1289 PG. 114

Profile

Survey of Beach Erosion

Survey by H.E. Hill & ALBERT A. TIMMONS

Indexed

Job No. 5412 Division No.

Notes Red. Date 12-12-46

Notes Chkd. Date 12-9-46

Notes Chkd. Date 1-8-47

Plotted H.I.L.M.H. Date 1947

Checked Date

X-Sec. No.

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	
510+00 (N)	505 +74.68 (N)	1	R	8.00	90 10	Range Line ∡ = 90° on base line	
		2	B		90 20		F.S. on 505+74.68 (N)
		3	W		89 50		
		4	B		90 35		
		5	W		90 25		
		6	R	8 17	90 05		
		7	B		90 15		
		8	W		90 35		
		9	B		90 00		
		10	W		90 10		
		11	R	8 26	89 55		
		12	B		89 40		
		13	W		89 50		
		14	B		90 00		
		15	W		90 20		
		16	R	8 28	90 15		
		17	B		90 50		
		18	W		90 20	End	

Range 510+00 (N)

Profile No. ____ Date ____ Notes Red. ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 115

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of 1947 Survey by Meineck Notes GWK Date 12-10-46

Map No. ____ Date ____ Indexed ____ Date ____

ALBERT E. TIMMONS

F.B. 1289 PG. 116 | Job No. 8412 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of Beach Erosion | Date | Date 1947 | No.

Survey by Meineck | Notes GWK-12-10-46 | Notes Chkd. | Checked | X-Sec.

Indexed ALBERT E. TIMMONS | 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.

Range
516+00 (N)

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
516+00 510+00	1	R	847	90.5	Range Line # = 90° F.S. on 510+00	
	2	B		92.5		
	3	W		90.5		
	4	B		8[illegible]		
	5	W		90.5		
	6	R	858	90.5		
	7	B		90.0		
	8	W		90.5		
	9	B		90.5		
	10	W		90.0		
	11	R	911	90.0		
	12	B		90.5		
	13	W		90.5		
	14	B		90.0		
	15	W		90.5		
	16	R	915	90.5		
	17	B		90.5		
	18	W		90.0		
	19	B		90.0	End.	

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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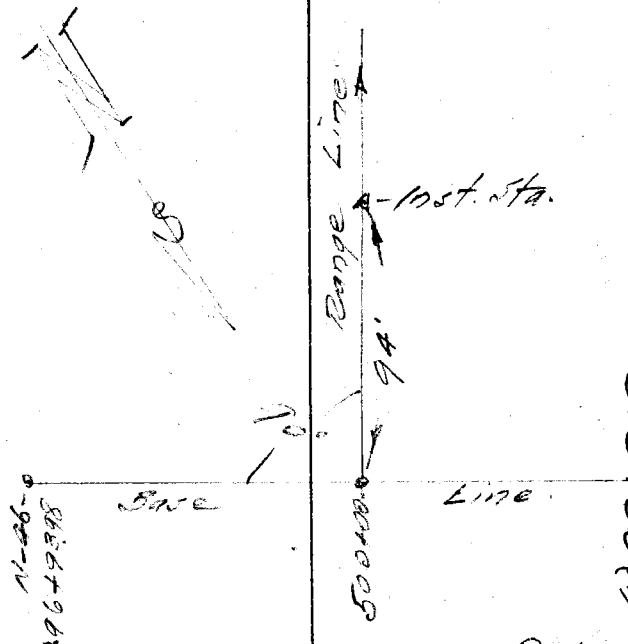
Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
500+00 94' out on range line	500+00 at base line	1	R	8:00	195-30	Range 510+00 (N)
		2	B		199-30	
		3	W		201-50	
		4	B		205-50	
		5	W		209-10	
		6	R	8:19	214-35	
		7	B		216-55	
		8	W		225-05	
		9	B		227-25	
		10	W		233-20	
		11	R	8:26	238-40	
		12	B		240-25	
		13	W		241-15	
		14	B		243-05	
		15	W		243-55	
		16	R	8:29	245-00	
		17	B		245-55	
		18	W		247-50	



Profile No. ____ Date ____ Notes Red. ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 117

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by Kleineck Notes G.O.H. Date 12-10-'46 Map No. ____ Indexed LBERT E. TIMMONS 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
500 +00 (N)	500 +00 (N) at base line	1	R	8:49	207.50	Range 516+00 (N)
94' out on range line.		2	B		211.30	
		3	W		213.20	
		4	B		216.35	
		5	W		221.00	
		6	R	8:59	224.30	
		7	B		228.25	
		8	W		231.00	
		9	B		235.10	
		10	W		239.25	
		11	R	9:12	241.10	
		12	B		244.50	
		13	W		246.50	
		14	B		250.40	
		15	W		251.40	
		16	R	9:16	252.10	
		17	B		252.45	
		18	W		253.50	
		19	B		255.00	End of line
		~~20~~	~~W~~			

Cut in 516+00 (N)

F.B. 1289 Pg. 118

Job No. 8412 Division No. Notes Red Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 1947 No. X-Sec.

Survey by Meneck Notes Gdt. 12-10-'46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	8:01	30.7-31.7	31.0	6.5	24.5	Range 510+00 (N)
2	B		[illegible]	30.0		23.5	[illegible]
3	W		2[illegible]	29.3		22.8	
4	B		[illegible]0-	27.6		21.1	
5	W		[illegible]0	26.2		19.7	
6	R	8:18	24.0-25.3	24.4	6.7	17.7	
7	R		22.5-24.8	23.3		16.6	
8	[illegible]		21.0-22.8	21.6		14.9	
9	[illegible]		19.0-20.8	19.6		12.9	
10	W		17.5-20.0	18.3		11.6	
11	R	8:27	16.2-18.8	17.1	6.8	10.3	
12			15.0-16.8	15.6		8.8	
13			14.0-17.0	15.0		8.2	
14			12.8-14.5	13.4		6.6	
[illegible]	[illegible]		11.3-13.4	12.0		5.2	
[illegible]	[illegible]	8:28	10.2-12.0	10.8	6.8	4.0	
17	B		9.2-10.8	9.7		2.9	
18	W		8.0-9.8	8.6		1.8	End of Line

Boat. ~~510+00 (N)~~

Profile
No. ____ Date 1-2-47 Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date 1-2-47 Date 1947 Survey of [illegible]
No. ____ Date 1-6-47 Notes Chkd [illegible] Checked ____ Survey by [illegible] Notes D.S. Date 12-10-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1259 Pg. 119

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 #	Color	B. S. Time	Meas. Depth	F. S. Botom	Ht. Tide	Adj. Depth		Remarks
	[illegible]	8:47	31.3-32.7	32.1	7.0	25.1	[illegible]	
			30.8-32.0	31.2		24.2	[illegible]	
			29.8-31.0	30.2		23.2		
			28.0-30.0	28.7		21.7		
			27.3-29.7	28.1		21.1		
	[illegible]	9:37	26.3-28.0	26.9	7.1	19.8		
	B		25.0-26.7	25.6		18.5		
	W		[illegible]	23.8		16.7		
	B		21.8-23.3	22.3		15.2		
	W		20.0-21.8	20.6		13.5		
	B	9:12	19.0-20.2	19.4	7.1	12.3		
	B		17.0-19.8	17.9		10.8		
	[illegible]		15.5-17.0	16.0		8.9		
14	[illegible]		14.3-16.1	14.9		7.8		
15			13.0-14.8	13.6		6.5		
	B	9:17	11.0-12.8	11.6	7.2	4.4		
17	B		10.0-12.0	10.7		3.5		
18	W		9.0-10.3	9.4		2.2		
19	B		7.6-9.3	8.2		1.0	END OF LINE.	

Boat 516+00 (N)

F.B. 1289 Pg. 120

Job No. [illegible] Division No. [illegible] Notes Red [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 12/19/46 Date 1947 No. X-Sec.

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

Indexed ALBERT E. TIMMONS Date Date 1-2-47 Date No.

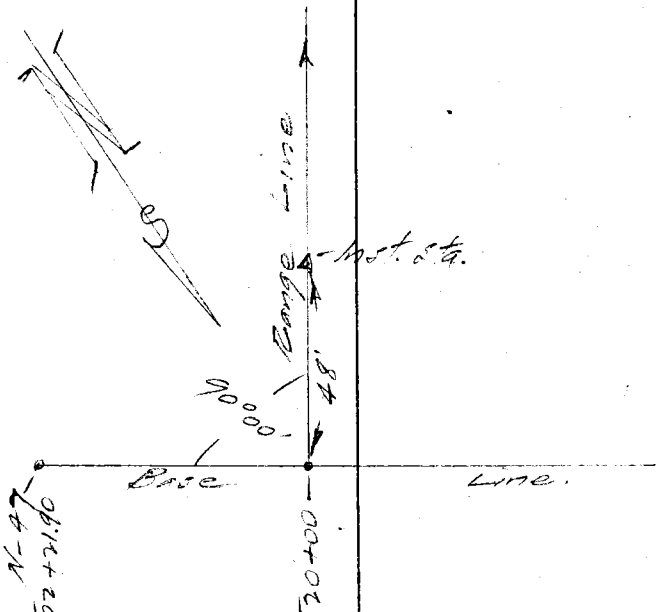
FORM 307 5M 1-46

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
520+00(N)	520+00(N) at base line	1	R	.928	18035	Range line ∡=180° at inst. sta.
48' out on range line		2	B		17930	
		3	W		17925	
		4	B		18000	
		5	W		17940	
		6	R	940	17950	
		7	B		17950	
		8	W		18050	
		9	B		17945	
		10	W		17920	
		11	R	946	17920	
		12	B		17955	
		13	W		18035	
		14	B		18030	
		15	W		17950	
		16	R	949	18000	
		17	B		17940	
		18	W		17955	
		19	B		18025	End.



Range 520+00 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion
Survey by Meinecke Notes Chk Date 12-10-46
Map No. ____ Indexed LBERT E. TIMMONS Date ____

F.B. 1289 PG. 121

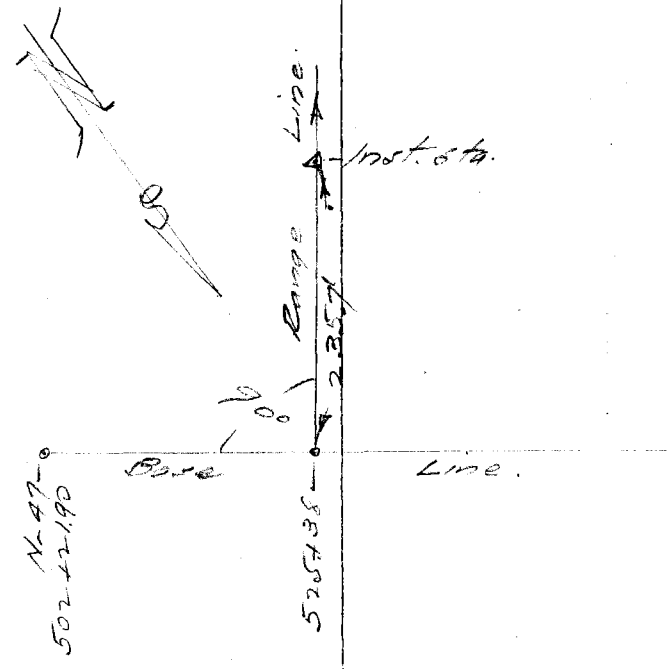
FORM 307 5M 1-46

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
525	525	1	R	945	179 40	Range Line [illegible] at inst. Sta.
+38	+38	2	B		179 [illegible]	
—	at	3	W		180 [illegible]	
235.7'	base	4	B		179 [illegible]	
Out	line	5	W		179 [illegible]	
on		6	R	955	180 00	
Range		7	B		179 [illegible]	
line		8	W		179 50	
		9	B		179 [illegible]	
		10	W		180 [illegible]	
		11	R	1001	179 [illegible]	
		12	B		180 [illegible]	
		13	W		179 35	
		14	B		179 [illegible]	
		15	W		179 [illegible]	
		16	R	1006	181 [illegible]	
		17	B		180 [illegible]	
		18	W		180 [illegible]	
		19	B		181 [illegible]	End



Range 525+38 (N)

F.B. 1289 PG. 122 Job No. 8412 Division No. Notes Red Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Heineck Notes Chkd. 12-11-46 Notes Chkd. Checked
Indexed ALBERT E. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
500 +00 (N) 94' out on range line.	500 +00 at base line	1	R	9:28	217.00	Range 520+00 (N)	
		2	B		218.30		
		3	W		221.40		
		4	B		226.45		
		5	W		232.00		
		6	R	9:40	235.05		
		7	B		240.15		
		8	W		242.15		
		9	B		245.20		
		10	W		248.05		
		11	R	9:46	248.45		
		12	B		249.50		
		13	W		250.20		
		14	B		253.00		
		15	W		253.55		
		16	R	9:50	254.50		
		17	B		255.50		
		18	W		257.00		
		19	B		257.35	End of line	
		~~20~~	~~W~~				

Cut in 520+00 (N)

Profile No.____ Date____ Notes Red.____ Plotted H.U.M.H. Job No. 8412 Division No.____ F.B. 1289 PG. 123

X-Sec. No.____ Date____ Date____ 1947 Survey of Beach Erosion

Notes Chkd.____ Checked____ Survey by Kleinack Notes G.O.H. Date 12/10/46

No.____ Date____ Date____ Map No.____ Indexed____ Date____

ALBERT R. TIMMONS

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+00 -N	510+00 -N	1	R	9:46	115-00	Range 525+38 (N)
		2	B		117-15	
		3	W		120-30	
		4	B		122-45	
		5	W		124-20	
		6	R	9:55	127-10	
		7	B		128-40	
		8	W		132-00	
		9	B		133-40	
		10	W		135-45	
		11	R	10:01	138-40	
		12	B		141-50	
		13	W		145-10	
		14	B		146-30	
		15	W		148-[illegible]	
		16	R	10:06	152-[illegible]	
		17	B		156-[illegible]	
		18	W		157-05	
		19	B		159-[illegible]	End of Line.

Cut in 525+38 (N)

F.B. 1289 PG. 124 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1947 No.
Survey by Hemet Notes D.S. 12-11-46 Notes Chkd. Checked X-Sec.
Indexed ALBERT E. TIMMONS 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.

Profile No. ____ X-Sec. No. ____ Notes Red. ZCUS Date 1-2-47 Plotted H.U.M.H. Date ____ Job No. 1947 Division No. ____ Survey of BERGH ERO Notes Chkd. HH Date 1-6-47 Checked ____ Date ____ Survey by ____ Map No. ____ Indexed ____ Notes D.C. Date 12-10-46 Date ____ ALBERT E. TIMMONS Date ____ F.B. 1288 PG. 125

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	9:28	31.5-32.3	31.8'	7.2	24.6'	Range 32 [illegible]
2	B		30.3-32.5	31.0'		23.8'	
3	W		28.9-30.0	29.3'		22.1'	
4	B		27.2-27.0	27.8'		20.6'	
5	[illegible]		26.0-27.5	26.5'		19.3'	
6	R	9:39	24.5-26.0	25.0'	7.2	17.8'	
7	[illegible]		22.7-24.0	23.3'		16.1'	
8	[illegible]		20.6-22.5	21.2'		14.0'	
9	[illegible]		19.0-20.1	19.4'		12.2'	
10	[illegible]		17.9-20.0	18.6'		11.4'	
11	R	9:45	16.8-18.0	17.2'	7.2	10.0'	
12	[illegible]		15.8-17.0	16.2'		9.0'	
13	[illegible]		14.3-17.0	15.2'		8.0'	
14	[illegible]		13.3-14.2	13.8'		6.6'	
15	[illegible]		11.6-14.0	12.4'		5.2'	
16	[illegible]	9:48	10.0-12.0	10.7'	7.2	3.5'	
17	G		9.0-10.3	9.4'		2.2'	
18	W		7.9-9.1	8.3'		1.1'	
19	G		6.2-8.9	7.1'		+0.1'	END OF LINE.

Boat 520+00(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.

F.B. 1289 Pg. 126 | Job No. 8412 | Division No. | Notes Red. | Date 11-14-46 | Notes Chkd. | Date 1-2-47 | Plotted H.U.M.H. | Date | Checked | Date | Profile No. | X-Sec. No.

Survey of Bar of Emerald
Survey by Hemmert Notes FOH 12-11-46
Indexed ALBERT E. TIMMONS Date

STATION #	Color	B.S. Time	H.I. Meas. Depth	Bottom	F.S.	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	9:45	30.8-32.1	31.7		6.7	24.5	Range 525+38.0 (N)
2	B		29.0-30.1	29.4			22.7	Going in.
3	W		27.7-28.7	28.9			21.3	
4	B		26.5-27.5	26.8			20.1	
5	W		25.3-26.3	25.6			18.9	
6	R	9:55	21.1-25.2	24.5		6.8	17.7	
7	B		23.2-24.7	23.7			16.9	
8	W		22.1-23.2	22.5			15.7	
9	B		21.0-22.1	21.4			14.6	
10	W		20.0-21.5	20.5			13.7	
11	R	10:01	18.4-19.7	18.8		6.8	12.0	
12	B		16.6-18.0	17.1			10.3	
13	W		15.4-16.4	15.7			8.9	
14	B		13.4-15.8	14.7			7.4	
15	W		13.1-14.2	13.5			6.7	
16	R	10:07	12.0-13.8	12.6		6.8	5.8	Boat 525+38 (N)
17	B		10.9-12.0	11.3			4.5	
18	W		9.5-10.5	9.8			3.0	
19	B		7.8-9.2	8.3			1.5	End of line

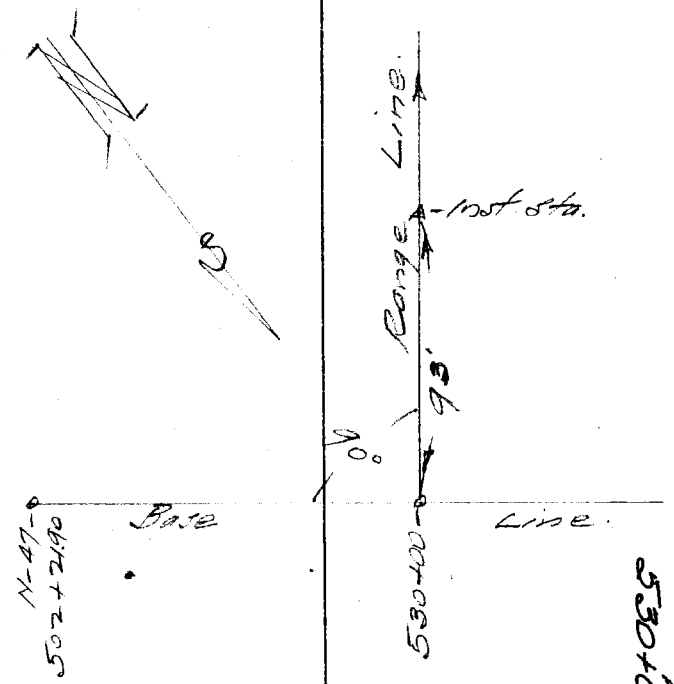
FORM 307 5M 1-46

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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
530+00	530	1	R	1030	18005	Range line ∡ = 180° at inst sta.	
93.0	+00 (N)	2	B		18005		
out	at	3	W		17930		
on	base	4	B		18015		
range	line	5	W		17955		
line		6	R	1041	17945		
		7	B		17940		
		8	W		18015		
		9	B		18000		
		10	W		18000		
		11	R	1049	17950		
		12	B		18000		
		13	W		17950		
		14	B		18010		
		15	W		18015		
		16	R	1054	18035		
		17	B		18015		
		18	W		18030		
		19	B		18020	End.	



Range 530+00 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 127
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Meineck Notes Gulk Date 12-11-'46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
536 +00 (N)	530 +00 (N)	1	R.	1109	89 40	Range line ∡ = 90° F.S. on 530+00
		2	B		89 45	
		3	W		89 25	
		4	B		89 45	
		5	W		89 45	
		6	R	1121	89 55	
		7	B		89 50	
		8	W		89 40	
		9	B		90 05	
		10	W		90 10	
		11	R	1130	90 10	
		12	B		90 15	
		13	W		89 50	
		14	B		90 15	
		15	W		90 20	
		16	R	1134	90 00	
		17	B		90 15	
		18	W		90 25	
		19	B		90 15	
		20	W		90 15	End.

Range 536+00 (N)

F.B. 1289 PG. 128

Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Meineck Notes Gulf 17-11-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
536+00 -N	530+00 -N	1	R	10:30	74-20	Range 530+00 (N)
		2	B		70-50	
		3	W		69-25	
		4	B		68-35	
		5	W		66-05	
		6	R	10:41	65-05	
		7	B		63-10	
		8	W		62-15	
		9	B		58-00	
		10	W		53-30	
		11	R	10:49	52-45	
		12	B		47-40	
		13	W		43-50	
		14	B		40-45	
		15	W		38-15	
		16	R	10:54	37-50	
		17	B		30-55	
		18	W		29-05	
		19	B		27-20	End of Line.

Cut in. 530+00 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 242 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Notes Chkd ____ Checked ____ Survey by Kleinecke Notes D.S. Date 12-11-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 129

F.B. 1289 PG. 130 Job No. 8412 Division No. ______ Notes Red. ______ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date ______ Date 1947 No. ______

Survey by Kleineck Notes D.S. 12-11-46 Notes Chkd. ______ Checked ______ X-Sec.

Indexed ALBERT E. TIMMONS Date ______ Date ______ Date ______ No. ______

FORM 307 5M 1-46

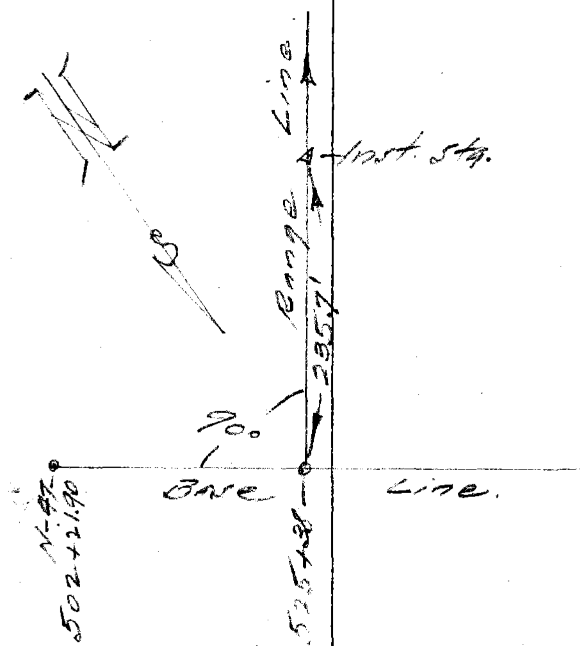
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. At	Sight On	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
525+38 -N	525+38 -N	1	R	11:09	201-10	Range 536+00 (N)
[redacted]	[redacted] ON	2	B		212-40	
235.7 OFFSET	BASE LINE	3	W		215-35	
		4	B		217-35	
		5	W		223-35	
		6	R	11:21	226-0	
		7	B		228-35	
		8	W		236-[illegible]	
		9	B		233-5	
		10	W		233-10	
		11	R	11:30	243-20	
		12	B		246-35	
		13	W		250-0	
		14	B		[illegible]	
		15	W		256-0	
		16	R	11:35	258-20	
		17	B		25[illegible]-0	
		18	W		262-10	
		19	B		267-10	
		20	W		267-30	End of Line

Cut in 536+00 (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		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	10:29	30.1-32.0	30.8'	6.8 ✓	24.0'	Range 530+00(N) Going In
2	B		29.0-30.2	29.4'		22.6'	
3	W		28.0-29.1	28.4'		21.6'	
4	B		27.0-28.2	27.4'		20.6'	
5	W		26.0-27.6	26.5'		19.8'	
6	R	10:40	25.0-27.2	25.7'	6.7 ✓	19.0'	
7	B		24.0-25.8	24.6'		17.9'	
8	W		22.5-23.3	22.8'		16.1'	
9	B		21.3-22.8	21.8'		15.1'	
10	W		20.0-21.8	20.6'		13.9'	
11	R	10:47	18.8-20.5	19.4'	6.7 ✓	12.7'	
12	B		16.8-19.0	17.5'		10.8'	
13	W		15.2-17.0	15.8'		9.1'	
14	B		13.8-15.6	14.4'		7.7'	
15	W		12.7-14.1	13.2'		6.5'	
16	R	10:55	10.8-12.4	11.3'	6.6 ✓	4.7'	
17	B		9.5-11.1	10.0'		3.4'	
18	W		8.3-10.0	8.9'		2.3'	
19	B		7.2-9.0	7.8'		1.2'	End of line
~~20~~	~~W~~						

Boat. 530+00(N)

Profile
No. _____ Date 1-2-47 Notes Red. RCWF Plotted H.U.M.H. Job No. 8417 Division No. _____
X-Sec. Notes Chkd. RW Checked _____ Date 1947 Survey of Beach Erosion
No. _____ Date 1-6-47 Date _____ Survey by Kleinau Notes G.O.L. Date 12/11/46
Map No. _____ Indexed _____ Date _____
ALBERT H. TIMMONS

F.B. 1289 Pg. 131

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
							Range 536+00(N) Going In.
1	R	11:09	30.5-31.8	30.9'	6.5	24.4'	
2	B		29.5-30.8	29.9'		23.4'	
3	W		23.4-29.7	28.8'		22.3'	
4	B		27.2-29.0	27.8'		21.3'	
5	W		26.0-27.4	26.5'		20.0'	
6	R	11:21	25.0-27.0	25.7'	6.4	19.3'	
7	B		24.0-25.1	24.4'		18.0'	
8	W		23.0-24.7	23.6'		17.2'	
9	B		22.4-24.2	23.0'		16.6'	
10	W		20.8-22.2	21.3'		14.9'	
11	R	11:29	19.7-21.1	20.2'	6.2	14.0'	
12	B		18.7-20.0	19.1'		12.9'	
13	W		17.7-19.2	18.2'		12.0'	
14	B		16.4-18.1	17.0'		10.8'	
15	W		15.2-17.0	15.8'		9.6'	
16	R	11:34	13.9-15.3	14.4'	6.1	8.3'	Boat 536+00(N)
17	B		12.7-14.6	13.3'		7.2'	
18	W		11.0-12.8	11.6'		5.5'	
19	B		8.0-9.3	8.4'		2.3'	
20	W		7.0-8.8	7.6'		1.5'	End of line

F.B. 1289 PG. 132 Job No. 8412 Division No. ____ Notes Red. Lowe Plotted H. U. M. H. Profile
Survey of Beach Erosion Date 1-2-47 Date 1947 No. ____
Survey by Klemeck Notes GOH 12-11-46 Notes Chkd [illegible] Checked ____ X-Sec.
Indexed ALBERT R. TIMMONS Date ____ Date 1-6-47 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	
540	"N-48"	1	R	1200	8945	Range line ∠ = 90° F.S. on "N-48"	
+00 (N)	537	2	B		9005		
	+93.15	3	W		9005		
		4	B		8925		
		5	W		8950		
		6	R	1213	8945		
		7	B		8940		
		8	W		8950		
		9	B		9000		
		10	W		8940		
		11	R	1219	8945		
		12	B		9000		
		13	W		9000		
		14	B		9020		
		15	W		9025		
		16	R	1226	9020		
		17	B		9030		
		18	W		9015		
		19	B		9020		
		20	W		9035	End.	

Range 540+00(N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 133
X-Sec. No. ____ Date ____ Date 1947 Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Kleinecke Notes GWK Date 12-11-46
No. ____ Date ____ Date ____ Map No. ____ Indexed LBERT E. TIMMONS 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	
544 +00 (N)	540 +00 (N)	1	R	12 49	89 [illegible]	Range line ∡ = 90°	F.S. on 540+00
		2	B		90 [illegible]		
		3	W		89 45		
		4	B		89 [illegible]		
		5	W		90 15		
		6	R	12 59	89 35		
		7	B		90 [illegible]		
		8	W		89 [illegible]		
		9	B		90 05		
		10	W		89 [illegible]		
		11	R	1 05	90 25		
		12	B		89 [illegible]		
		13	W		89 50		
		14	B		90 [illegible]		
		15	W		90 [illegible]		
		16	R	1 10	90 [illegible]		
		17	B		90 25		
		18	W		90 [illegible]		
		19	B		90 [illegible]		

Range 544+00 (N)

F.B. 1289 PG. 134

Job No. 8412 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Date 1947 No. ____ Profile ____

Survey of Beach Erosion Date ____ X-Sec. ____

Survey by Flemcot Notes GWT 12-11-46 Notes Chkd. ____ Checked ____ No. ____

Indexed ALBERT R. TIMMONS Date ____ 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
525+37 -N ON 235.7 OFFSET	525+37 -N ON BASE LINE	1	R	12:00	208-15	Range 540+00 (N)
		2	B		213-45	
		3	W		218-05	
		4	B		221-20	
		5	W		226-25	
		6	R	12:12	230-15	
		7	B		233-50	
		8	W		237-20	
		9	B		238-55	
		10	W		240-55	
		11	R	12:19	245-10	
		12	B		249-15	
		13	W		250+05	
		14	B		254-30	
		15	W		260-50	
		16	R	12:25	262-00	
		17	B		262-55	
		18	W		263-50	
		19	B		264-45	
		20	W		265-50	End of Line.

Cut in 540+00 (N)

Profile No. ___ Notes Red ___ Plotted H. U. M. H. Job No. 842 Division No. ___ F.B. 1289 Pg. 135
X-Sec. No. ___ Date ___ Date 1947 Survey of Beach Erosion
Chkd. ___ Checked ___ Survey by Kleinock Notes D.S. Date 12-11-46
Date ___ Date ___ Map No. ___ Indexed ALBERT E. TIMMONS 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	
525+38 -N ON 235.7 OFFSET	525+38 -N ON BASE LINE	1	R	12:48	218-15	Range 544+00 (N)	
		2	B		220-15		
		3	W		22[illegible]-15		
		4	B		227-15		
		5	W		23[illegible]-10		
		6	R	12:59	23[illegible]-10		
		7	B		237-10		
		8	W		239-05		
		9	B		24[illegible]-10		
		10	W		24[illegible]-10		
		11	R	1:05	245-15		
		12	B		248-15		
		13	W		250-10		
		14	B		25[illegible]-10		
		15	W		25[illegible]-10		
		16	R	1:10	25[illegible]-10		
		17	B		25[illegible]-10		
		18	W		260-10		
		19	B		263-10	End of Line.	

Cut in 544+00 (N)

F.B. 1289 PG. 136 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Kleineck Notes 25, 12-11-46 Notes Chkd. Checked No.
Indexed ALBERT E. TIMMONS Date 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	12:00	29.8-32.0	30.5'	5.8	24.7'	Boot 540+00 (N)
2	B		28.[illegible]-[illegible]0	29.1'		23.3'	Going In
3	W		27.6-28.8	28.0'		22.2'	
4	B		26.3-28.0	26.9'		21.1'	
5	W		25.0-26.7	25.6'		19.8'	
6	R	12:13	23.5-25.3	24.1'	5.6	18.5'	
7	B		22.0-23.4	22.5'		16.9'	
8	W		21.0-22.3	21.4'		15.8'	
9	B		20.0-22.0	20.7'		15.1'	
10	W		18.8-20.8	19.5'		13.9'	
11	R	12:19	17.0-18.1	17.4'	5.5	11.9'	
12	B		16.0-17.8	16.6'		11.1'	
13	W		[illegible]-16.0	15.1'		9.6'	
14	B		13.0-15.2	13.7'		8.2'	
15	W		12.0-13.3	12.4'		6.9'	
16	R	12:25	11.0-12.8	11.6'	5.3	6.3'	
17	B		10.0-11.1	10.4'		5.1'	
18	W		9.0-10.7	9.6'		4.3'	
19	B		8.0-10.0	8.7'		3.4'	
20	W		7.2-8.4	7.6'		2.3'	End of line

Boot 540+00 (N)

Profile No. ____ Notes Red. Lowe Date 1-2-47 Plotted H.U.M.H. Date 1947 Job No. 8476 Division No. ____ Survey of Beach Erosion Notes G.O.H. Date 12/11/46 Notes Chkd. [illegible] Checked ____ Survey by Klainac Date 1-6-47 Date ____ Map No. ____ Indexed ALBERT F. TIMMONS Date ____

X-Sec. No. ____

F.B. 1289 Pg. 137

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.

Profile No. ____ X-Sec. No. ____

H. U. M. H. Plotted Kelly Date 1-2-47 Checked ____ Date ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date 1-6-47

Division No. ____ Job No. 7417 Beach Erosion

Survey of Weirs Beach Notes 604 12-11-46

Survey by ALBERT A. TIMMONS Date ____

Indexed ____ Date ____

F.B. 1239 PG. 138

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
							Range 544+00(N) Going In
1	R	12:47	29.0 30.0	29.4	4.8	24.6	
2	B		28.2-29.2	28.6		23.88	
3	W		26.8-27.8	27.2		22.54	
4	B		25.6-27.0	26.1		21.43	
5	W		24.0-25.7	24.6		19.98	
6	R	12:58	23.0-24.2	23.4	4.6	18.8	
7	B		21.8-23.0	22.2		17.6	
8	W		20.8-22.5	21.4		16.8	
9	B		19.5-20.8	19.9		15.3	
10	W		18.0-19.3	18.4		13.8	
11	R	1:05	17.0-18.2	17.4	4.4	13.0	
12	B		16.0-17.2	16.4		12.0	
13	W		15.0-16.2	15.4		11.0	
14	B		13.5-15.1	14.0		9.6	Boat 544+00 (N)
15	W		12.0-13.8	12.6		8.2	
16	R	1:10	10.6-12.4	11.2	4.3	6.9	
17	B		9.4-11.1	10.0		5.7	
18	W		8.0-9.5	8.5		4.2	
19	B		7.0-8.8	7.6		3.3	End of line

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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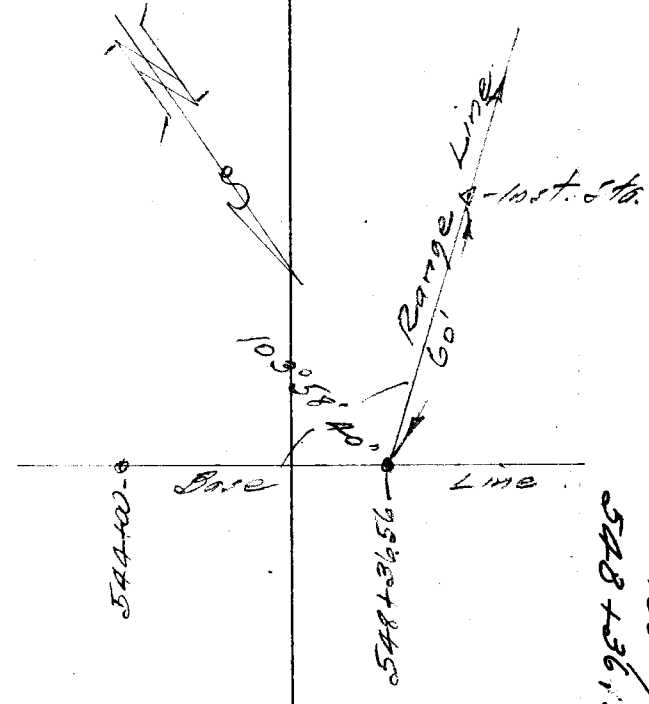
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
548	548	1	R	1 37	179 45	Range line ∠ = 180° at inst. sta.
+36.56	+36.56	2	B		179 50	
(N)	at	3	W		179 50	
60'	base	4	B		180 00	
out	line	5	W		180 20	
on		6	R	1 47	179 45	
range		7	B		179 35	
line.		8	W		179 15	
		9	B		179 45	
		10	W		180 00	
		11	R	1 52	179 50	
		12	B		179 25	
		13	W		180 05	
		14	B		180 05	
		15	W		180 00	
		16	R	1 56	180 00	
		17	B		179 40	
		18	W		180 25	
		19	B		180 00	End.



Range
548+36.56 (N)

Profile
No. X-Sec.
Notes Red. Date
Plotted H.U.M.H. Date
Job No. 8442 Division No.
Survey of Beach Erosion
Notes Chkd. Date
Checked Date
Survey by Meneck Notes GWK Date 12-11-46
Map No. Date
Indexed ALBERT E. TIMMONS Date

F.B. 1289 PG. 139

F.B. 1289 PG. 140 | Job No. 842 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of Beach Erosion | Date | Date 1947 | No.

Survey by Kleinecke | Notes GWK 12-11-46 | Notes Chkd. | Checked | X-Sec.

Indexed ALBERT E. TIMMONS | Date | Date | Date | No.

Range 550+00(N)

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At On	#	Color	Time			
555 Fore-100 Tang. (N) Pro-posed Face Wall	1	R	214		90°	Range line 1 = 90° F.S. on Tree-Eucalyptus Produced 0°14'-49"
	2	W			88°	
	3	W			86°	
	4	R	226		84°	
	5	R			82°	
	6	W			80°	
	7	W	261		78°	
	8	W			76°	
	9	W			74°	
	10	W			72°	
	11	W			70°	
	12	W	287		68°	
	13	W			66°	
	14	W			64°	
	15	W			62°	
	16	W			60°	
	17	W			58°	
	18	W			56°	
	19	W			54°	
	20	W			52°	
	21	W			50°	
	22	W			48°	
	23	W			46°	
	24	W			44°	
	25	W			42°	
	26	W			40°	
	27	W			38°	
	28	W			36°	
	29	W			34°	
	30	W			32°	
	31	W			30°	
	32	W			28°	
	33	W			26°	
	34	W			24°	
	35	W			22°	
	36	W			20°	
	37	W			18°	
	38	W			16°	
	39	W			14°	
	40	W			12°	
	41	W			10°	
	42	W			8°	
	43	W			6°	
	44	W			4°	
	45	W			2°	
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	47	W			0°	
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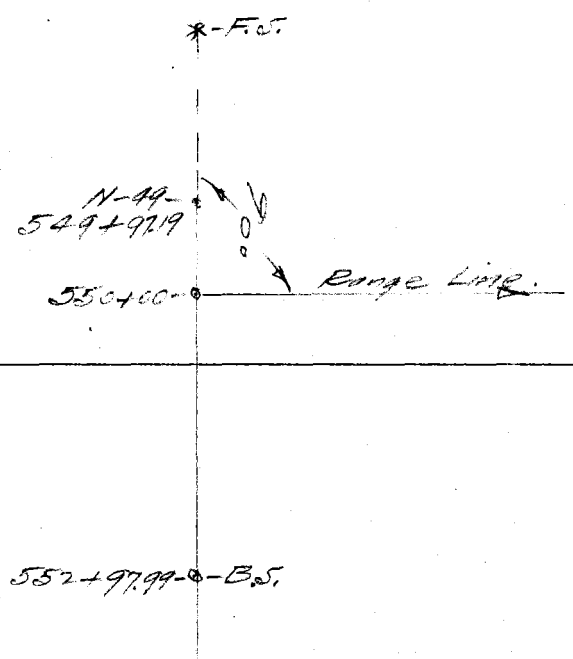

FORM 307 5M 1-46

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

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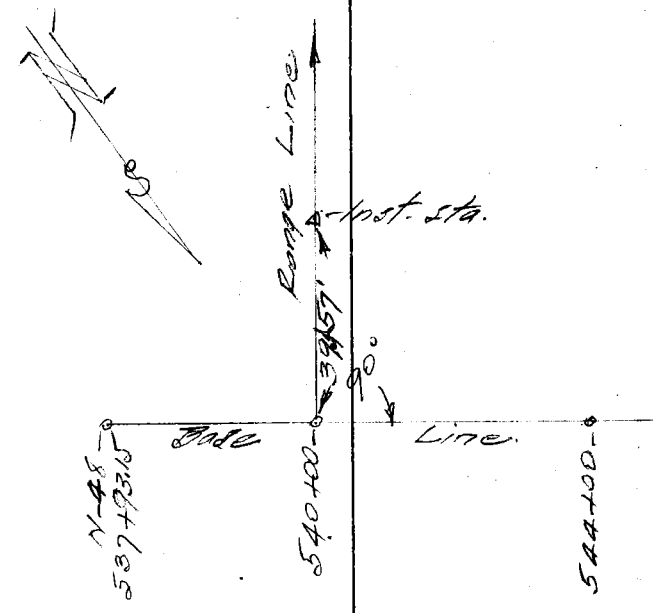
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
540+00 -N	540+00 -N	1	R	1:36	215-00	Range 548+36.56 (N)
ON	ON	2	B		217-15	
39.57	BASE	3	W		219-30	
OFFSET	LINE	4	B		221-50	
		5	W		223-50	
		6	R	1:46	225-10	
		7	B		226-05	
		8	W		227-15	
		9	B		228-40	
		10	W		231-45	
		[illegible]	R	1:52	233-15	
		[illegible]	B		234-20	
		13	W		237-25	
		14	B		238-40	
		15	W		240-15	
		16	R	1:55	241-00	
		17	B		245-10	
		[illegible]	W		247-20	
		19	B		249-25	End of Line.



Cut in.
548+36.56 (N)

Profile
Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____
No. ____ Date ____ Date 1947 Survey of Reach Erosion
X-Sec.
Notes Chkd ____ Checked ____ Survey by Reinecke Notes D.S. Date 12-11-46
No. ____ Date ____ Date ____ Map No. ____ Indexed BERT E. TIMMONS Date ____

F.B. 1289 PG. 141

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	
540+00 -N ON	540+00 -N ON	1	R	2:14	[illegible]	Range 550+00 (N)	
39.57 OFFSET	BASE LINE.	2	B		216-15		
		3	W		217-00		
		4	B		219-15		
		5	W		221-10		
		6	R	2:25	223-30		
		7	B		226-20		
		8	W		227-00		
		9	B		229-10		
		10	W		231-00		
		11	R	2:30	231-25		
		12	B		232-15		
		13	W		235-25		
		14	B		237-15		
		15	W		241-21		
		16	R	2:35	242-15		
		17	B		244-15		
		18	W		248-10		
		19	B		252-15	End of Line.	

Cut in 550+00 (N)

F.B. 1289 PG. 142 Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile
Survey of Beach Erosion Date Date 1977 No. X-Sec.
Survey by Kleinecke Notes D.S. 12-11-46 Notes Chkd. Checked
Indexed ALBERT E. TIMMONS 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 #	Color	B. S. - Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	1:35	23.0-29.1	28.4'	3.6 ✓	24.8'	Range 548+36.56 (N)
2	B		26.1-27.5	26.6'		23.0'	Going in.
3	W		25.0-26.0	25.3'		21.7'	
4	B		24.0-25.3	24.4'		20.8'	
5	W		22.8-24.0	23.2'		19.6'	
6	R	1:46	20.5-21.8	20.9'	3.3 ✓	17.6'	
7	B		19.4-20.8	19.9'		16.6'	
8	W		18.4-19.8	18.9'		15.6'	
9	B		17.2-18.8	17.7'		14.4'	
10	W		16.0-17.8	16.6'	—	13.3'	
11	R	1:51	15.0-17.1	15.7'	3.2 ✓	12.5'	
12	B		14.0-15.9	14.6'		11.4'	
13	W		13.0-14.6	13.5'		10.3'	
14	B		12.0-13.5	12.5'		9.3'	
15	W		11.0-12.5	11.5'		8.3'	
16	R	1:55	9.0-11.0	9.7'	3.0 ✓	6.7'	
17	B		8.0-10.0	8.7'		5.7'	
18	W		7.0-8.6	7.5'		4.5'	
19	B		6.0-7.8	6.6'		3.6'	End of line
~~20~~	~~W~~						

Root.
548+36.56 (N)

Profile No. ____ Date 1-2-47 X-Sec. No. ____ Date 1-6-47

Notes Red KCWT Plotted H.U.M.H. Job No. 5412 Division No. ____
Notes Chk. ____ Date ____ Checked ____ Survey of 1947 Survey by Brown & Ellis Map No. ____ Indexed LIBERT E. TIMMONS Date ____
Notes 9 GH Date 12-11-46

F.B. 1199 PG. 143

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	2:14	27.7-29.0	28.1	2.5	25.6	Range 550+00(N) Going In
2	B		26.8-28.8	27.5		25.0	
3	W		25.8-27.7	26.4		23.9	
4	B		24.8-26.1	25.2		22.7	
5	W		23.6-24.8	24.0		21.5	
6	R	2:25	22.6-24.6	23.3	2.3	21.0	
7	B		21.3-22.5	21.7		19.4	
8	W		19.3-22.5	20.4		18.1	
9	B		18.0-19.6	18.5		16.2	
10	W		17.0-18.8	17.6		15.3	
11	R	2:29	16.0-17.7	16.6	2.1	14.5	
12	B		15.0-17.0	15.7		13.6	
13	W		13.8-15.6	14.4		12.3	
14	B		12.0-13.8	12.6		10.5	
15	W		11.0-12.2	11.4		9.3	
16	R	2:34	9.5-11.2	10.1	2.0	8.1	Boat 550+00 (N)
17	B		8.5-10.5	9.2		7.2	
18	W		6.8-8.2	7.3		5.3	
19	B		5.0-7.0	5.7		3.7	End of line

F.B. 1289 PG. 144 Job No. 8412 Division No. ____ Notes Red. [illegible] Plotted H.U.M.H. Profile
Survey of Beach Erosion Date 1-6-47 Date 1947 No. ____ X-Sec.
Survey by Blemeck Notes G.O.H. 12-11-46 Notes Chkd. ____ Checked ____
Indexed ALBERT E. TIMMONS Date ____ Date ____ No. ____

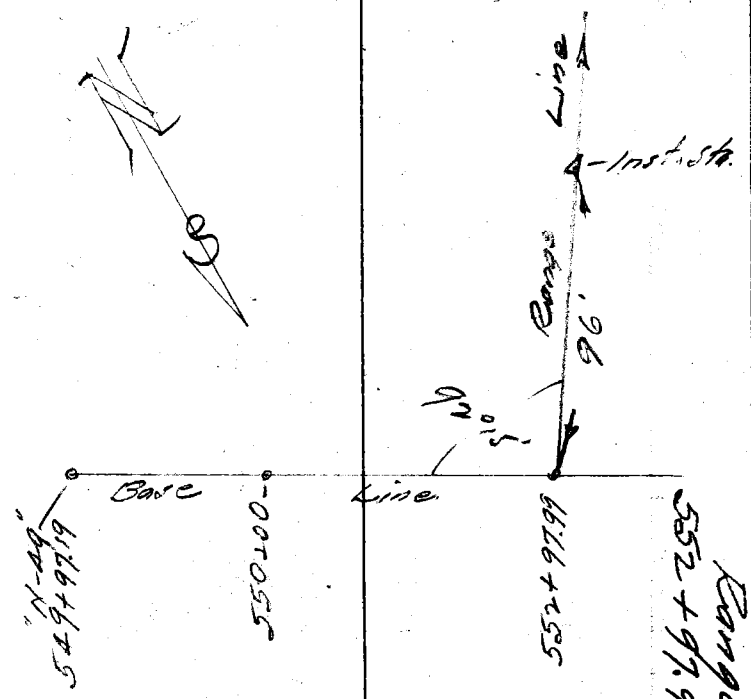
FORM 307 5M 1-46

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.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
552 + 97.99	552 + 97.99 at base line	1	R	9 18	179 45	Range line ∡ = 180° at inst. sta.
96' out on range line		2	B		179 50	
		3	W		180 00	
		4	B		180 05	
		5	W		180 00	
		6	R	9 28	180 10	
		7	B		180 35	
		8	W		180 25	
		9	B		180 20	
		10	W		179 55	
		11	R	9 35	180 00	
		12	B		180 15	
		13	W		180 10	
		14	B		179 50	
		15	W		180 45	
		16	R	9 42	180 00	
		17	B		180 15	
		18	W		180 00	
		19	B		180 00	



Profile Notes Red ____ Plotted H.U.M.H. Job No. 542 Division No. ____
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Meneck Notes GWK Date 12-12-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date 1-13-47

F.B. 1289 Pg. 145

FORM 307 5M 1-46

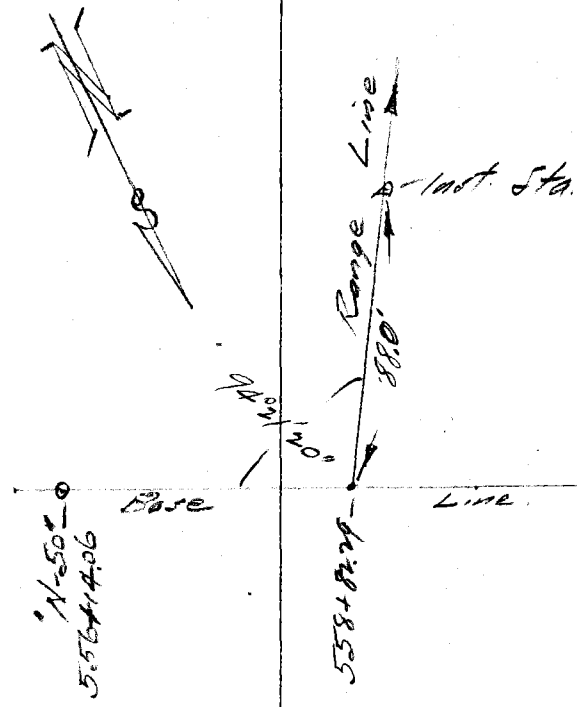
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
558	558	1	R	10 17	179 [illegible]	Range line ∠ = 180° at inst. Sta.
+82.29	+82.29 at base line	2	B		179 45	
88.0'		3	W		179 [illegible]	
out on range line		4	B		17[illegible]	
		5	W		180 20	
		6	R	10 30	180 [illegible]	
		7	B		179 55	
		8	W		180 [illegible]	
		9	B		180 [illegible]	
		10	W		180 [illegible]	
		11	R	10 37	180 [illegible]	
		12	B		180 [illegible]	
		13	W		180 [illegible]	
		14	B		180 [illegible]	
		15	W		181 [illegible]	
		16	R	10 44	179 [illegible]	
		17	B		179 [illegible]	

Range 558+82.29 (N)



F.B. 1289 PG. 146 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1941 No. X-Sec.
Survey by Kleineck Notes GWK 12-12-46 Notes Chkd. Checked
Indexed ALBERT K. TIMMONS Date Date Date No.

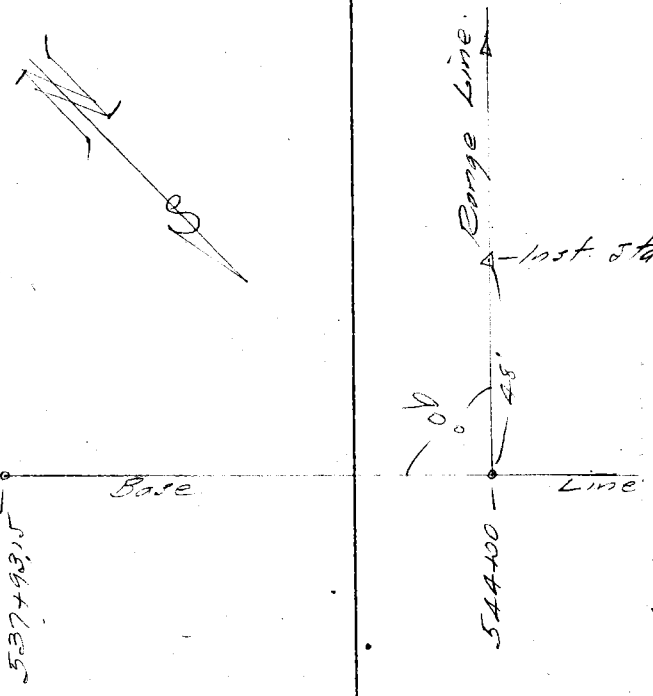
FORM 307 5M 1-46

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
544+00 -N ON 48' OFFSET	544+00 -N ON BASE LINE	1	R	9:18	216-00	Range 552+97.99 (N)	
		2	B		216-25		
		3	W		220-20		
		4	B		223-05		
		5	W		224-10		
		6	R	9:29	226-10		
		7	B		229-35		
		8	W		230-15		
		9	B		231-50		
		10	W		233-30		
		11	R	9:36	236-15		
		12	B		237-00		
		13	W		238-40		
		14	B		241-20		
		15	W		244-40		
		16	R	9:43	252-50		
		17	B		254-05		
		18	W		256-50		
		19	B		258-10	End of Line.	



Cut in.
552+97.99 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Klemeck Notes D.S. Date 12-12-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 147

F.B. 1289 PG. 148

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Kleineck Notes D.S. 12-12-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

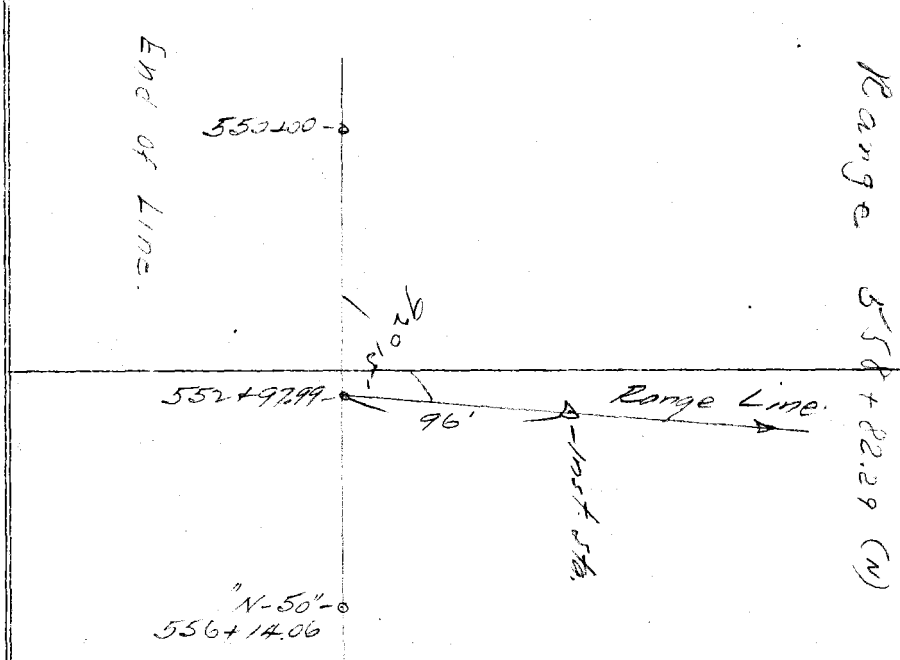
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Cut in.
558+82.29 (N)

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
552+97.92 -N ON 96' OFFSET	1	R	10:17	197-10
552+97.92 -N ON SAME LINE.	2	B		199-10
	3	W		201-20
	4	B		202-55
	5	W		203-30
	6	R	10:30	205-5
	7	B		207-10
	8	W		211-10
	9	B		213-20
	10	W		215-30
	11	R	10:36	217-10
	12	B		220-10
	13	W		237-55
	14	B		240-10
	15	W		244-10
	16	R	10:45	246-5
	17	B		248-10

Remarks

Range 558+82.29 (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.

Profile No. ____ X-Sec. No. ____ Notes Red RS Date 12-21-47 Notes Chkd. ____ Date ____ Plotted H.U.M.H. Date 12-27 Checked ____ Date ____ Job No. 8411 Survey of Bayside Estates Survey by Flaherty Notes 7-11-F Map No. ____ Division No. ____ Indexed ____ Date ____ Date 12/12/46

F.B. 289 PG. 149

STATION #	Color	Time	B.S. - H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	9:18	29.8-30.8	30.1	5.3	24.8	Range 552+97.99 (W)
2	B		28.8-30.0	29.2		23.9	Going in
3	W		26.2-27.8	26.7		21.4	
4	B		24.9-26.0	25.3		20.0	
5	W		23.3-24.8	24.3		19.0	
6	R	9:30	22.3-24.0	22.9	5.4	17.5	
7	B		20.5-22.0	21.0		15.6	
8	W		19.0-20.0	19.3		13.9	
9	B		17.7-19.3	18.2		12.8	
10	W		16.5-17.8	16.9		11.5	
11	R	9:35	15.5-17.3	16.1	5.5	10.6	
12	B		14.3-16.0	14.9		9.4	
13	W		13.0-15.0	13.7		8.2	
14	B		12.0-13.2	12.4		6.9	
15	W		10.8-12.2	11.3		5.8	
16	R	9:42	9.8-11.0	10.2	5.6	4.6	
17	B		8.2-10.2	8.9		3.3	
18	W		6.8-8.1	7.2		1.6	
19	B		6.0-7.0	6.3		0.7	End of line
~~20~~	~~W~~						

552 + 97.99 (W)

Boat

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.

F.B. 128 PG. 150 | Job No. 5417 Division No. | Notes Red. | Plotted H.U.M.H. | Profile No.

Survey of Beach Erosion | Notes | Date 12-21-47 | Date | X-Sec. No.

Survey by Wilcox | Notes Chkd. 12-12-46 | Checked | No.

Indexed ALBERT E. TIMMONS | Date | Date

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
							Range 558+82.29(N) Going in
1	R	10:17	30.2-31.0	30.7	5.9	24.8	
2	B		29.0-31.0	29.7		23.8	
3	W		27.6-29.3	28.2		22.3	
4	B		25.6-27.0	26.9		21.0	
5	W		25.4-26.9	25.9		20.0	
6	R	10:30	21.0-25.3	24.4	6.0	18.4	
7	B		22.5-23.2	22.7		16.7	
8	W		21.0-21.7	21.2		15.2	
9	B		19.5-20.0	19.9		13.9	
10	W		17.2-19.0	17.8		11.8	
11	R	10:36	16.5-17.0	16.0	6.0	10.0	
12	B		14.5-16.0	15.0		9.0	
13	W		13.4-15.7	14.2		8.2	
14	B		11.8-13.1	12.2		6.2	
15	W		9.5-11.0	10.0		4.0	
16	R	10:44	8.0-9.5	8.5	6.1	2.4	Boat. 558+82.29(N)
17	B		7.0-8.0	7.3		1.2	End of line
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

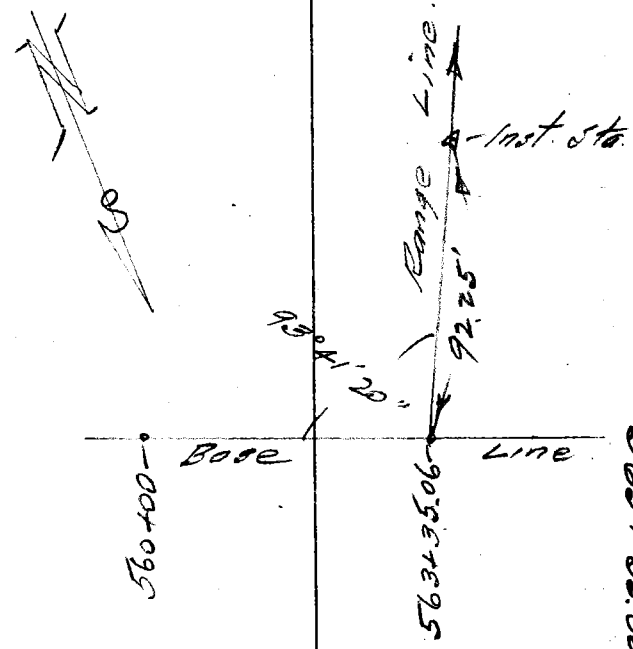
FORM 307 5M 1-46

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
563 + 35.06	563 + 35.06 at base	1	R	11 03	180 10	Range line ∡ = 180° at inst. sta.
92.25'		2	B		18000	(Note:- Line 560+00 Not Run)
Out on range line		3	W		17955	
		4	B		18005	
		5	W		17945	
		6	R	11 18	17955	
		7	B		17950	
		8	W		17945	
		9	B		17930	
		10	W		18010	
		11	R	11 22	18010	
		12	B		18005	
		13	W		18005	
		14	B		18040	
		15	W		18020	
		16	R	11 25	18000	
		17	B		18030	
		18	W		18020	
		19	B		18030	
		20	W		17950	



Range 563+35.06 (N)

Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1284 Pg. 151
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Reinecke Notes Gulk Date 12-12-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 152

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Kleineck Notes GWK. 12-12-'46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS 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.

Range
563 + 35.06 (N) Cont'd.

STATION Inst. Sight At	On	B.S. #	H.I. Color	F.S. Time	ELEV. Hor. Ang.	Remarks
563 + 35.06	563 + 35.06 at base line	21	R	11 33	18[illegible]	563 + 36.06 Cont'd
		22	B		18[illegible]	
		23	W		18030	
		24	B		18[illegible]	
		25	W		18040	
		26	R	11 38	18[illegible]	

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	
552+97.99	552+97.99	1	R	11:04	206-00	Range 563+35.06 (N)	
-N	-N	2	B		209-45		
ON	ON	3	W		212-40		
96'	[illegible]	4	B		214-40		
OFFSET	LINE	5	W		217-40		
		6	R	11:18	221-20		
		7	B		223-20		
		8	W		226-30		
		9	B		228-00		
		10	W		229-40		
		11	R	11:22	229-55		
		12	B		229-45		
		13	W		230-50		
		14	B		232-10		
		15	W		232-40		
		16	R	11:26	233-50		
		17	B		234-50		
		18	W		235-45		
		19	B		236-10		
		20	W		236-50	Continued on reverse side.	

See pg. 148

Cut in.
563+35.06 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Klemeck Notes D.S. Date 12-12-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 153

F.B. 1289 PG. 154 | Job No. 8412 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile

Survey of Beach Erosion | Date | Date 1947 | No.

Survey by Hennock | Notes D.S. 12-12-46 | Notes Chkd. | Checked | X-Sec.

Indexed ALBERT E. SIMMONS | Date | Date | Date | No.

Cut in
563+35.06 (N) Cont'd

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
552+92 -N ON 96' OFFSET	21	R	11:33	244-50	Range 563+35.06 (N)
552+97 -N ON BASE LINE	22	B		245-35	
	23	W		255-35	
	24	B		255-40	
	25			255-10	
	26	R	11:38	256-10	End of Line.

FORM 307 5M 1-46

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 #	Color	B. S. - Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11:04	30.2-31.9	30.8	6.1	24.7	Range 563+35.06
2	B		29.0-30.0	29.3		23.2	Going in.
3	W		27.4-28.2	27.7		21.6	
4	B		26.0-27.7	26.6		20.5	
5	W		24.3-26.0	24.9		18.8	
6	R	11:18	23.0-24.0	23.3	6.1	17.2	
7	B		21.8-22.8	22.1		16.0	
8	W		20.0-21.0	20.3		14.2	
9	B		18.0-20.2	19.1		13.0	Irregular bottom.
10	W		17.2-18.6	17.7		11.6	probably rock
11	R	11:23	15.0-16.5	15.5	6.1	9.4	all the way into
12	B		13.1-14.2	13.5		7.4	shore.
13	W		17.0-18.0	17.3		11.2	
14	B		14.0-15.0	14.3		8.2	
15	W		16.0-17.0	16.3		10.2	
16	R	11:26	14.5-16.2	15.1	6.1	9.0	
17	B		15.0-17.0	15.7		9.6	
18	W		13.0-15.0	13.7		7.6	
19	B		11.5-14.0	12.3		6.2	
20	W		15.0-16.5	15.5		9.4	(Continued)

Boot 563+35.06(N)

Profile
No. ____ Date 1-21-47 Notes Red RJ Plotted H. U. M. H. Job No. 842 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Kleinecke Notes G.O.H. Date 12/12/46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 155

F.B. 1289 PG. 156

Job No. 8412 Division No. _____ Notes Red. HE Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 1-21-47 Date 1977 No. _____

Survey by Klemeck Notes G.O.H. 12-12-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT S. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

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.

STATION #	Color	B.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
21	R	1132	13.6 - 13.1	14.0	6.1	7.9	Range 563+35.06 Cont'd
22	B		12.1 - 13.3	12.5		6.4	
23	W		11.1 - 12.1	11.4		5.3	
24	B		9.0 - 11.0	9.7		3.6	
25	W		7.6 - 10.0	8.4		2.3	
26	R	1136	6.3 - 8.3	7.4	6.1	1.3	End of line
~~27~~	~~B~~						
~~28~~	~~W~~						
~~29~~	~~B~~						
~~30~~	~~W~~						

Boat.
563+35.06 (N) Cont'd.

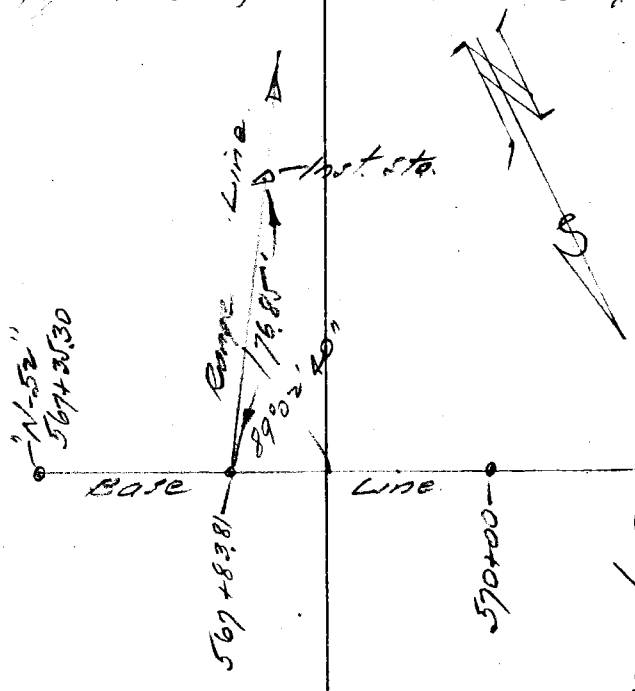
FORM 307 5M 1-46

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
567+83.81	567+83.81 at base line	1	R	11 50	180 05	Range line ∡ = 180° at inst. sta.
76.85 out on range line		2	B		179 55	
		3	W		179 40	
		4	B		179 40	
		5	W		179 55	
		6	R	12 05	180 05	
		7	B		180 00	
		8	W		180 10	
		9	B		180 15	
		10	W		180 25	
		11	R	12 13	180 30	
		12	B		180 00	
		13	W		180 20	
		14	R	12 15	180 30	
		15	W		180 40	
		16	R	12 16	180 35	
		17	B		180 20	
		18	W		180 30	
		19	B		180 30	
		20	W		180 25	



Range
567+83.81(N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H U M H Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Meineck Notes Gulk Date 12-12-'46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 157

F.B. 1289 PG. 158 Job No. 842 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No.

Survey by Kleineck Notes G.W.R. 12-12-46 Notes Chkd. Checked X-Sec.

Indexed ALBERT E. TIMMONS Date Date Date No.

Range

567+83.81 (N) Cont'd.

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
567 + 83.81	21	R	1221	180 N	Cont'd.
567 + 83.81 at 76.85 base out line	22	B		180 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.

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
552+97.99	552+97.99	1	R	11:51	215-10	Range 567+83.81 (N)
-N	-N	2	B		224-05	
ON	ON					
96'	[illegible]	3	W		224-45	
OFFSET	LINE	4	B		225-55	
		5	W		226-40	
		6	R	12:05	230-00	
		7	B		232-50	
		8	W		235-30	
		9	B		238-10	
		10	W		241-15	
		11	R	12:13	244-[illegible]	
		12	B		245-10	
		13	W		247-50	
		14	R	12:15	249-30	
		15	W		251-20	
		16	R	12:16	252-05	
		17	B		253-20	
		18	W		254-30	
		19	B		255-05	
		20	W		257-40	Continued on reverse side.

See pg 148

Cut in. 567+83.81 (N)

Profile Notes Red. ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 159
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Niemcek Notes D.S. Date 12-12-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 160

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Klemeck Notes D.S. 12-12-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

Cut in.
567+83.81 (N) Contd.

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
552+97 ON 96' OFFSET	21	R	12:21	25[illegible]	Range	567+83.81(N)
552+97 ON BASE LINE.	22	B		26[illegible]	End of 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11.49	29.7-30.9	30.1	6.0	24.1	Range 567+83.81
2	B		27.6-29.5	28.2		22.2	Going in
3	W		26.4-27.6	26.8		20.8	
4	B		25.2-26.3	25.6		19.6	
5	W		24.0-25.8	24.6		18.6	
6	R	12:05	23.0-24.3	23.6	5.9	17.7	
7	B		22.0-24.0	22.7		16.8	
8	W		21.0-23.0	21.7		15.8	
9	B		19.7-21.8	20.4		14.5	
10	W		18.3-20.1	18.9		13.0	
11	R	12.13	17.0-19.0	17.7	5.9	11.8	
12	B		15.9-18.1	16.6		10.7	
13	W		14.9-16.3	15.5		9.6	
14	R	12:14	13.6-15.3	14.2	5.9	8.3	
15	W		12.0-13.3	12.6		6.7	
16	R	12:17	11-12 8-9	11.3	5.8	5.5	Rocky - bottom
17	B		12.0-12.8	12.3		6.5	
18	W		13.0-14.0	13.3		7.5	
19	B		11.0-12.0	11.3		5.5	
20	W		10.0-11.0	10.3		4.5	Cont'd next pg.

567+83.81 (N)

Profile No. ____ X-Sec. No. ____

Notes Red Date 1-21-47 Plotted H. U. M. H. Job No. 8412 Division No. ____

Notes Chkd ____ Date ____ Checked ____ Date ____ Survey of 1947 Survey by Heinecke Notes 704 Date 12-17-46

Map No. ____ Indexed ALBERT G. TIMMONS Date ____

F.B. 1244 PG. 161

F.B. 1289 PG. 162

Job No. 842 Division No. _____ Notes Red. [illegible] Plotted H.U.M.H. Profile

Survey of Beach Erosion Date 1-21-47 Date 1947 No. _____

Survey by Klemeck Notes G.O.H. 12-12-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

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.

STATION #	B.S. Color	H.I. Time	Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
21	R	12:21	8.0-9.5	8.5	5.8	2.7	567+83.81 Cont'd
22		8	6.0-8.0	6.7		0.9	End of line
23	B						

Boat
567+83.81 (N) Cont'd.

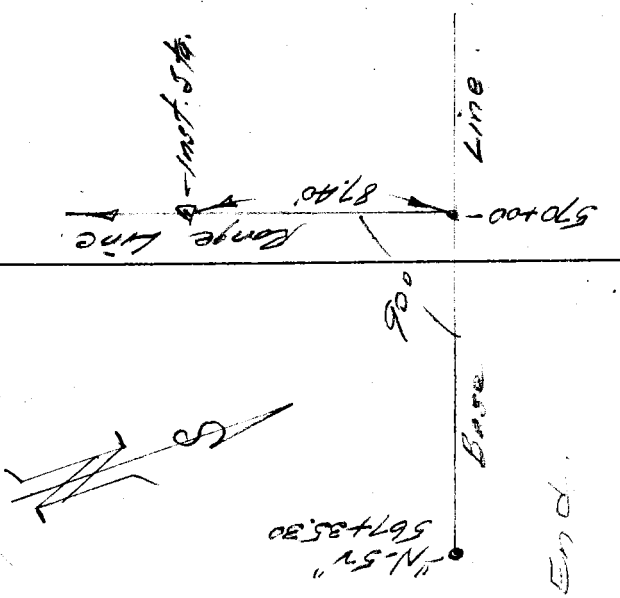
Profile No. _____ Notes Red _____ Plotted H. U. M. H. Job No. 8412 Division No. _____ F.B. 1289 PG. 163

Date _____ Date 1947 Survey of Beach Erosion

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by Kleinecke Notes GWK Date 12-12-46

Date _____ Date _____ Map No. _____ Indexed ALBERT E. TIMMONS Date _____

Range 570+00 (N)



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
570 +00	1	C	2.39	18000	Range line ∡ = 180° at inst. Sta.
570 +00	2	B		18000	
87.40 out on range line	3	W		[illegible]	
	4	B		18000	
	5	W		[illegible]	
	6	C	12.50	[illegible]	
	7	B		[illegible]	
	8	W		18000	
	9	B		[illegible]	
	10	W		18010	
	11	R	12.59	18005	
	12	R		18010	
	13	W		18050	
	14	B		[illegible]	

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.

FORM 307 5M 1-46

FORM 307 5M 1-46

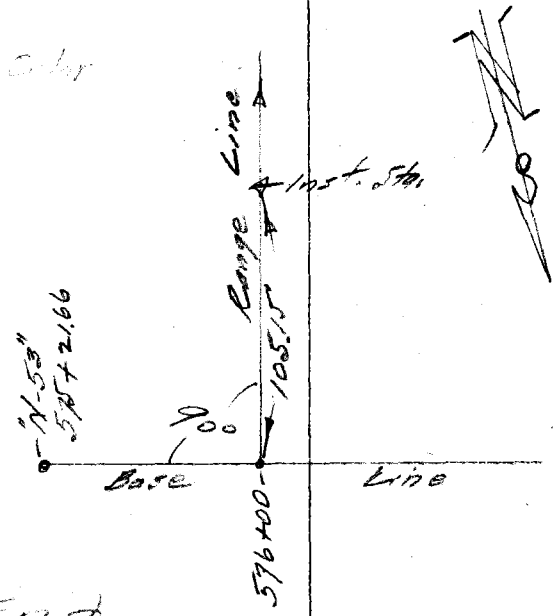
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
576 +00 — 105.15 out on range line	576 +00 at base line	1	R	122	180.00	Range line ∠ = 180° at inst. Sta.
		2	B		180.00	
		3	W		179.50	
		4	R	132	179.50	(?) Color
		5	W		179.25	
		6	R	136	180.00	
		7	B		179.50	
		8	W		180.00	
		9	R	144	180.00	
		10	W		179.50	
		11	C	148	180.00	
		12	B		180.25	
		13	W		180.00	
		14	B		180.25	
		15	W		180.00	
		16	R	152	180.00	End

Range 576+00 (N)



F.B. 1289 PG. 164 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Klemeck Notes Gwk 12-12-46 Notes Chkd. Checked
Indexed ALBERT R. TIMMONS 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	On	#	Color	Time	Hor. Ang.	Remarks	
558+82 29 -N ON 88 OFFSET	558+82 29 -N ON BASE LINE	1	R	12:39	208-40	Range 570+00 (N)	
		2	B		210-50		
		3	W		213-10		
		4	B		215-20		
		5	W		219-05		
		6	R	12:50	223-30		
		7	B		228-55		
		8	W		235-35		
		9	B		240-55		
		10	W		245-50		
		11	R	1:00	248-40		
		12	B		251-30		
		13	W		254-05		
		14	B		254-35	End of Line	

See pg. 146.

Cut in. 570+00 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion
Date ____ Map No. ____ Survey by Niemeck Notes D.S. Date 12-12-46
Indexed LBERT E. TIMMONS Date ____

F.B. 1289 PG. 165

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	
558+82 29 -N ON 88' OFFSET	558+82 29 -N ON [illegible] LINE.	1	R	1:22	[illegible]	Range 576+00 (N)	
		2	B		209-[illegible]		
		3	W		217-40		
		4	R	1:33	219-50		
		5	W		223-10		
		6	R	1:37	226-40		
		7	B		229-00		
		8	W		234-10		
		9	R	1:44	239-20		
		10	W		243-[illegible]		
		11	R	1:49	250-25		
		12	B		25[illegible]-50		
		13	W		25[illegible]-0		
		14	B		256-[illegible]5		
		15	W		257-[illegible]0		
		16	R	1:52	25[illegible]-[illegible]0	End of Line.	

See pg 165

Cut in. 576+00 (N)

F.B. 1289 PG. 166 Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile
Survey of Beach Erosion Date Date 1947 No. X-Sec.
Survey by Kleinack Notes D.S., 12-12-46 Notes Chkd. Checked No.
Indexed ALBERT S. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	12:9	28.4-24.3	29.2	5.6	23.6	Range 570+00 (N)
2	B		27.1-23.1	28.6		23.0	Long
3	W		26.4-23.0	26.9	5.5	21.4	
4	B		24.6-22.4	25.2		19.7	
5	W		22.9-23.9	23.2		17.7	
6	R	12:5	20.8-22.6	21.4	5.4	16.0	
7	B		19.0-20.5	19.5		14.1	
8	W		17.0-19.0	17.7		12.3	
9	B		14.8-16.5	15.4		10.0	
10	W		13.0-14.3	13.4		8.0	
11	R	12:3	10.8-12.0	11.2	5.3	5.9	
12	B		7.6-11.0	9.8		4.5	
13	W		7.3-11	8.2		2.9	
14	B		6.0-7.2	6.4		1.1	End of line
15	W						
16	B						
17	R						
18	W						
19	B						
20	W						

Boat 570+00 (N)

Profile No.____ Date____ Notes Red 2-3-47 Date____ Plotted H U M H Date____ Job No. 8H 2 Division No.____ Survey of [illegible] Survey by Klamath Notes [illegible] Date 12/12/46 F.B. 128 PG. 167

X-Sec. No.____ Date____ Notes Chkd____ Date____ Checked____ Date____ Survey No.____ Map No.____ Indexed ALBERT E. TIMMONS 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.

F.B. 1298 PG. 168 | Job No. 8412 Division No. | Notes Red. | Plotted H.U.M.H. | Profile No.
Survey of Beach Erosion Notes Chkd. | Date 2-3-47 | Date 1941 | X-Sec. No.
Survey by Hennecke Notes FOH 12-12-46 | Date | Checked | Date
Indexed ALBERT E. TIMMONS Date | Date | Date | No.

STATION #	Color	B. S. Time	H. I. Meas. Depth	Bottom	F. S. Ht. Tide	Adj. Depth	Remarks
1	R	1:22	28.8-29.8	29.1	4.7	24.2	Range 576+00 (N)
2	B		27.3-28.4	27.8		22.9	Going in
3	W		26.4-27.7	26.8		21.9	
4	~~B~~ R	1:32	24.6-25.8	25.0	4.8	20.2	
5	W		23.0-24.3	23.6		18.8	
6	R	1:36	21.5-22.8	21.9	4.7	17.2	
7	B		19.5-21.3	20.1		15.4	
8	W		18.0-19.2	18.4		13.7	
9	~~B~~ R	1:44	16.5-17.5	16.8	4.6	12.2	
10	W		14.9-16.1	15.3		10.7	
11	R	1:48	13.0-14.6	13.5	4.4	9.1	
12	B		11.8-12.8	12.1		7.7	
13	W		9.8-10.5	10.0		5.6	
14	B		8.0-9.3	8.4		4.0	Boat 576+00 (N)
15	W		6.3-8.0	7.2		2.8	
16	R	1:51	5.2-7.0	5.8	4.4	1.4	End of line
~~17~~	~~B~~						
~~18~~	~~W~~						
~~19~~	~~B~~						
~~20~~	~~W~~						

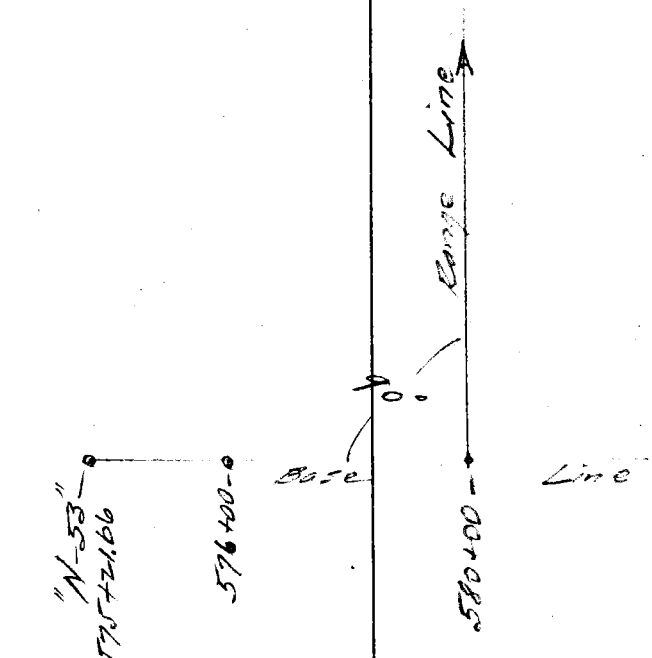
FORM 307 5M 1-46

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
580+00 (N)	576+00 (N)	1	R	854	9005	Range Line ∡ = 90° F.S. on 576+00
		2	B		9035	
		3	W		8950	
		4	B		8940	
		5	W		9025	
		6	R	912	8955	
		7	B		9010	
		8	W		9020	
		9	B		9020	
		10	W		9010	
		11	R	918	9010	
		12	B		8955	
		13	W		8950	
		14	B		9000	
		15	W		8940	
		16	R	926	9100	
		17	B		9050	



Range 580+00 (N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 169
Date ____ Date 1947 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Kleineck Notes GWK Date 12-16-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

FORM 307 5M 1-46

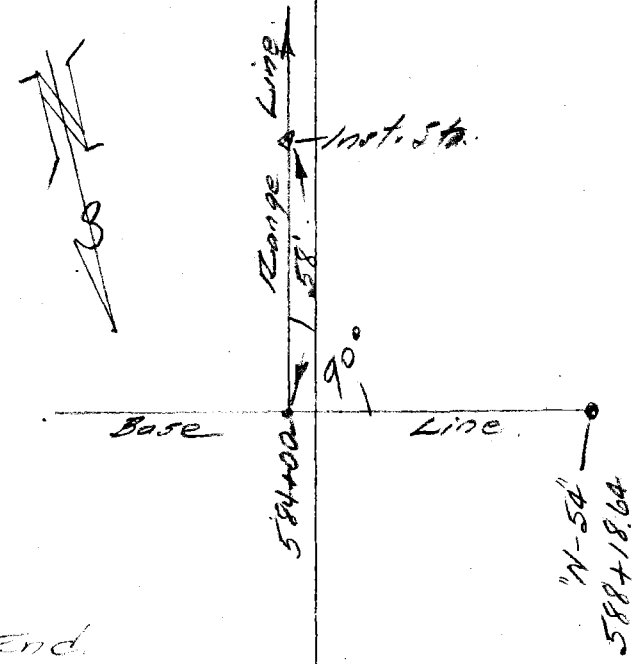
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
584+00 (N) 58' out on range line	584+00 at base line	1	R	942	180.[illegible]	Range line ∡ = 180° at inst. Sta.
		2	B		180.[illegible]5	(Note:- Line 590+00 Not Run)
		3	W		180.[illegible]	
		4	B		179.[illegible]5	
		5	W		180.[illegible]5	
		6	R	955	180.[illegible]	
		7	B		180.[illegible]	
		8	W		180.00	
		9	B		18[illegible]	
		10	W		17[illegible]	
		11	R	1006	180.[illegible]5	
		12	B		180.[illegible]	
		13	W		180.[illegible]5	
		14	B		180.[illegible]	
		15	W		179.[illegible]5	
		16	R	1015	180.[illegible]5	
		17	B		1[illegible].05	
		18	W		180.[illegible]5	End.

Range 584+00 (N)



F.B. 1289 PG. 170

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Meineck Notes GWK 12-16-46 Notes Chkd. Checked

Indexed ALBERT E. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
570+00	570+00	1	R	8:56	191-45	Range 580+00 (N)	
87.40'	on	2	B		193-30		
out	base	3	W		195-20		
on	Line	4	B		199-50		
range		5	W		204-25		
line		6	R	9:14	205:05		
		7	B		208-30		
		8	W		211-45		
		9	B		213-45		
		10	W		216-10		
		11	R	9:19	218-10		
		12	B		221-40		
		13	W		223-10		
		14	B		227-30		
		15	W		232-50		
		16	R	9:28	244-50		
		17	B		247-50		

See pg. 163

Cut in.
580+00 (N)

Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 171
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Klemeck Notes GWW Date 12-16-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
570+00	570+00	1	R	9:44	200-05	Range 584+00
87.40' out on range line	ON base LINE	2	B		202-00	
		3	W		204-20	
		4	B		206-50	
		5	W		208-20	
		6	R	9:56	210-10	
		7	B		214-10	
		8	W		218-05	
		9	B		221-50	
		10	W		224-35	
		11	R	10:07	228-15	
		12	B		230-40	
		13	W		231-35	
		14	B		235-30	
		15	W		242-10	
		16	R	10:17	248-20	
		17	B		249-55	
		18	W		251-50	

See pg. 171

Cut in. 584+00(N)

F.B. 1289 PG. 172 Job No. 8412 Division No. Notes Red. Plotted Date 1947 No. Profile
Survey of Beach Erosion Date X-Sec.
Survey by Fleming Notes GWW. 12-16-46 Notes Chkd. Checked
Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	8:56	27.5-28.8	27.9	2.8	25.1	Range 580+00 (N)
2	B		26.1-27.2	26.5		23.7	Going in.
3	W		24.7-26.1	25.2		22.4	
4	B		22.9-24.0	23.3		20.5	
5	W		21.5-23.2	22.1		19.3	
6	R	9:14	20.2-22.0	20.8	2.7	18.1	
7	R		19.[illegible]-2[illegible]	19.7		17.0	
8			[illegible]	18.7		15.5	
9			16.[illegible]-18.0	16.9		14.2	
10			14.9-16.0	15.3		12.6	
11	R	9:20	13.[illegible]-1[illegible].0	14.0	2.6	11.4	
12	B		11.2-13.0	11.8		9.2	
13	W		10.4-12.[illegible]	11.0		8.4	
14	B		9.0-11.7	9.9		7.3	
15	W		8.0-9.4	8.5		5.9	
16	R	9:29	6.8-9.0	7.5	2.5	5.0	
17	B		5.1-7.4	5.9		3.4	End of Line.

Boat.
580+00 (N)

Profile
No. ____ Date 2-3-47 Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Mowrek Notes D.S. Date 12-16-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
Notes Red. [illegible] Plotted H U M H Job No. 8112 Division No. ____
F.B. 1289 Pg. 173
ALBERT E. TIMMONS

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	9:44	[illegible]	27.7	2.4	25.3	Range 584+00 (N)
2	[illegible]		[illegible]	26.5		24.1	[illegible]
3	W		[illegible]	25.4		23.0	
4	B		23.7-25.0	24.1		21.7	
[illegible]	W		22.0-24.5	23.5		21.1	
[illegible]	[illegible]	9:56	22.0-24.0	22.7	2.3	20.4	
[illegible]	[illegible]		20.4-22.5	21.3		19.0	
[illegible]	[illegible]		19.0-21.1	20.2		17.9	
[illegible]	[illegible]		17.3-19.7	18.1		15.8	
[illegible]	[illegible]		16.3-17.5	16.6		14.3	
[illegible]	[illegible]	10:38	14.5-16.0	15.0	2.2	11.8	
[illegible]	[illegible]		13.0-14.0	13.3		11.1	
[illegible]	[illegible]		11.6-13.0	12.1		9.9	
[illegible]	[illegible]		10.3-12.1	10.9		8.7	
[illegible]	[illegible]		8.9-10.5	9.4		7.2	
[illegible]	[illegible]	10:[illegible]	8.0-8.5	8.5	2.2	6.3	[illegible]
17	B		7.0-8.6	7.5		5.3	[illegible]
18	W		6.2-7.7	6.7		4.5	End of Line

Boat 584+00(N)

F.B. 1289 PG. 174

Job No. [illegible] Division No. [illegible] Notes Red [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 2-3-47 Date 1947 No. X-Sec.

Survey by [illegible] Notes D.S. 12-16-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date 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	
594+00 (N)	590+00 (N)	1	R	1031	9000	Range Line ∓ = 90° F.S. on 590+00	
		2	B		9030		
		3	W		9045		
		4	B		9045		
		5	W		9025		
		6	R	1051	89 40		
		7	B		89 50		
		8	W		89 55		
		9	B		90 00		
		10	W		89 40		
		11	R	1105	9000		
		12	B		89 50		
		13	W		9000		
		14	B		90 05		
		15	W		90 40		
		16	R	1110	90 35		
		17	B		90 25	End	

Range 594+00 (N)

Profile Notes Red. ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 175
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinecke Notes GWK Date 12-16-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 176

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H.U.M.H. 1947 Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by G Leinecke Notes GWK 12-16-'46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

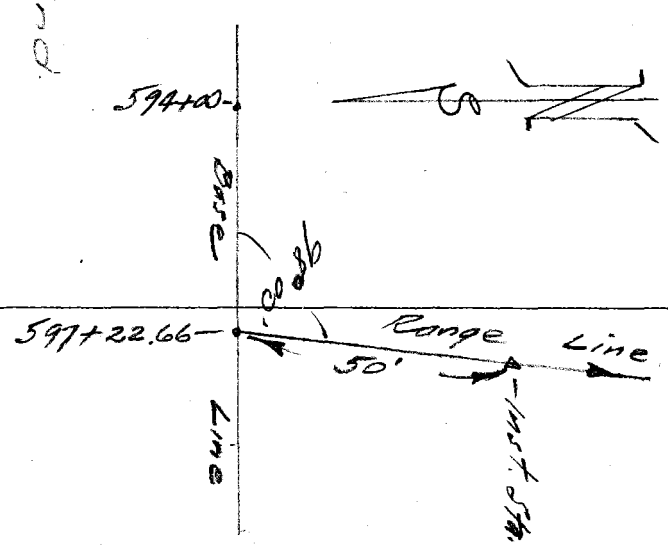
Range
597+22.66 (N)

STATION	B.S.	H.I.	F.S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
597 + 22.66	1	R	1124	180.5
597 + 22.66	2	B		179.5
50'	3	W		179.0
Base Line	4	B		179.5
	5	W		179.5
	6	R	1140	179.5
	7	B		180.0
	8	W		179.0
	9	B		179.5
	10	W		179.5
	11	R	1145	179.0
	12	B		179.5
	13	W		179.0
	14	R		179.0
	15	W		178.0
	16	R	1150	179.5

Remarks

Range Line ∡ = 180° ∡ Inst. Sta.

End.



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 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	
584+00	584+00	1	R	10:40	183-45	Range 594+00	
58,00'	On	2	B		188-15		
out	base	3	W		188-40		
on		4	B		189-35		
range	line	5	W		193-45		
line		6	R	10:56	197-40		
		7	B		201-40		
		8	W		206-00		
		9	B		210-35		
		10	W		213-45		
		11	R	11:06	219-50		
		12	B		223-25		
		13	W		227-15		
		14	B		231-00		
		15	W		238-20		
		16	R	11:11	241-20		
		17	B		245-20		

See pg. 170

Cut in. 594+00 (N)

Profile No. ____ Notes Red ____ Plotted H. U. M. H. Job No. 8447 Division No. ____ F.B. 1289 PG. 177
Date ____ Date ____ 1947 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Meneck Notes CWW Date 12-16-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
584+00	584+00	1	R	11:25	199-30	Range	597+22.66
58.00'	ON	2	B		201-55		
out	base	3	W		207-25		
on		4	B		209-20		
range	LINE	5	W		215-25		
line		6	R	11:40	218-15		
		7	B		221-40		
		8	W		224-15		
		9	B		227-45		
		10	W		229-15		
		11	R	11:46	230-50		
		12	B		233-50		
		13	W		237-00		
		14	B		238-10		
		15	W		242-45		
		16	R	11:52	244-20		

See pg. 170

Cut in. 597+22.66 (N)

F.B. 1289 PG. 178

Job No. 8412 Division No. Notes Red Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Meneck Notes Cut W. 12-16-'46 Notes Chkd. Checked No.

Indexed ALBERT B. TIMMONS Date 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 #	Color	B. S. - Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1		10:41	27.1-27.0	27.7	2.1	25.6	Range [illegible]
2			[illegible]	26.2		24.1	[illegible]
3			24.8-26.1	25.2		23.1	
4			23.5-25.0	24.0		21.9	
5			22.1-24.2	22.8		20.7	
6		10:56	20.9-22.[illegible]	21.5	2.0	19.5	
			19.9-21.4	20.4		18.4	
			18.2-20.3	19.0		17.0	
			16.7-[illegible]	17.3		15.3	
			[illegible]	16.0		14.0	
		11:07	12.[illegible]-1[illegible]	14.6	2.0	12.6	
			12.5-14.0	13.0		11.0	
			10.7-12.5	11.3		9.3	
			9.0-[illegible]	9.7		7.7	
			6.[illegible]-7.3	7.3		5.3	
		11:12	5.7-7.0	5.7	2.0	3.7	On [illegible]
17			4.5-6.7	5.3		3.3	End [illegible]

Boat
594+00 (N)

Profile
No. ____ Date 2-3-47 Notes Red [illegible] Plotted H U M H Date ____ Job No. 84 Division No. ____
X-Sec. Notes Chkd ____ Date ____ Checked ____ Survey of 1947 Survey by [illegible] Notes [illegible] Date 12-1[illegible]-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1284 PG. 179

F.B. 1284 PG. 180 | Job No. 2412 | Division No. | Notes Red. | Plotted H.U.M.H. | Profile

Survey of Beach Erosion | Date 2-3-47 | Date 1947 | No.

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

ALBERT S. TIMMONS

Indexed | Date | Date | Date | No.

FORM 307 5M 1-46

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.

STATION	B. S.	H. I.	F. S.	ELEV.		
#. Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1			27.3	3.0	25.3	
2			25.5		23.5	
3			24.2		22.2	
4			22.7		20.7	
5			21.0		19.0	
6			19.9	2.0	17.9	
7			18.5		16.5	
8			17.1		15.1	
9			14.9		12.9	
10			14.1		12.1	
11			12.6	2.0	10.6	
12			11.2		9.2	
13			9.6		7.6	
14			8.0		6.0	
15			6.2		4.2	
16			5.1		3.1	
17				2.0		

Boat.
597+22.66 (N)

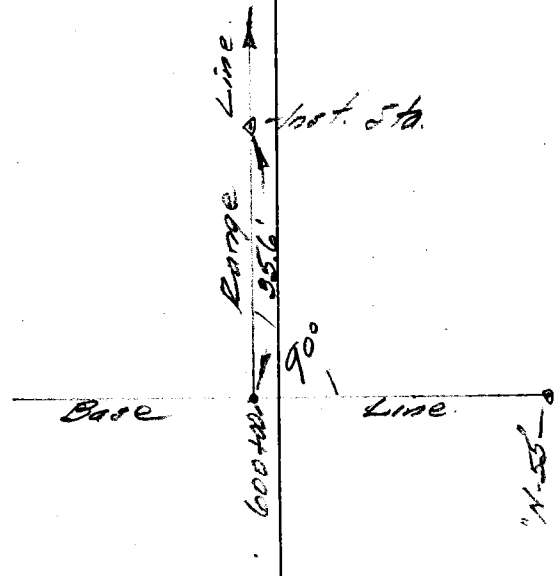
FORM 307 5M 1-46

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		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
600 +00	600 +00 at base line	1	C	1210	180 25	Range line ∡ = 180° at inst. sta.	
		2	B		180 15		
		3	W		180 10		
35.6' out on range line		4	B		180 50		
		5	W		[illegible]		
		6	C	1225	[illegible]		
		7	B		[illegible]		
		8	W		[illegible]		
		9	B		[illegible]		
		10	W		180 10		
		11	B	1232	180 30		
		12	B		180 45		
		13	W		[illegible]		
		14	B		180 25		
		15	W		180 10		



Range 600+60(N)

Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____
No. ____ Date ____ Date 1147 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Klemeck Notes [illegible] Date 12-16-'46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 181

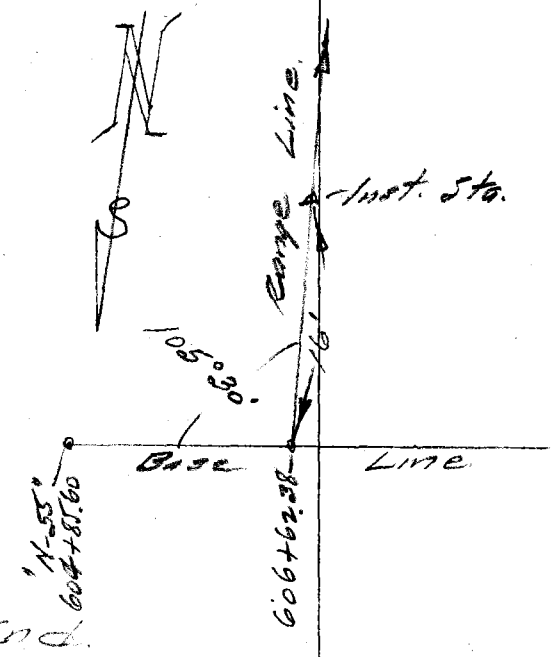
FORM 307 5M 1-46

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
606 + 62.38' 16' out on range line	606 + 62.38 at base line	1	R	1255	179.45	Range Line ∠ = 180° at inst. sta.
		2	B		179.50	
		3	W		179.40	
		4	B		180.0	
		5	W		179.0	
		6	R	1209	180.5	
		7	B		179.60	
		8	W		179.5	
		9	B		180.5	
		10	W		180.0	
		11	R	115	179.0	
		12	B		180.0	
		13	W		180.0	
		14	B		179.50	
		15	W		180.0	
		16	R	121	180.0	End.



Range 606+62.38 (N)

F.B. 1284 PG. 182

Job No. 8412 Division No. ____ Notes Red ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1941 No. ____ X-Sec.

Survey by Hewett Notes GWK 12-16-46 Notes Chkd ____ Checked ____

Indexed ALBERT E. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
584+00	584+00	1	R	12:11	199-30	Range 600+00	
58.00	[illegible]	2	B		201-25		
out	[illegible]	3	W		207-35		
on		4	B		212-50		
range		5	W		215-25		
line		6	R	12:26	221-10		
		7	B		225-00		
		8	W		228-00		
		9	B		232-25		
		10	W		234-40		
		11	R	12:34	237-40		
		12	B		239-35		
		13	W		241-50		
		14	B		243-05		
		15	W		246-25		

See pg 170

Cut in 600+00(N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 183
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Hemmer Notes Cwm. Date 12-16-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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	
584+00	584+00	1	R	12:56	208-55	Range	606+32.38
58.00	on	2	B		210-10		
out		3	W		216-20		
on	base	4	B		219-35		
range	line	5	W		224-50		
line		6	R	1:10	226-50		
		7	B		228-10		
		8	W		229-15		
		9	B		231-20		
		10	W		233-10		
		11	R	1:16	237-15		
		12	B		241-05		
		13	W		244-05		
		14	B		245-10		
		15	W		246-10		
		16	R	1:22	248-05		

See pg. 170

Cut in. 606+32.38 (N)

F.B. 1289 PG. 184

Job No. 8412 Division No. Notes Red Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Meneck Notes CUW. 12-16-46 Notes Chkd. Checked

Indexed ALBERT T. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	[illegible]:12	[illegible]	27.3	2.1	25.2	Range 600 (N)
2	"		[illegible]	25.9		23.8	Going in.
3	"		24.1-26.5	24.9		22.8	
4	"		22.5-24.0	23.0		20.9	
	"		21.0-23.0	21.7		19.6	
	"	12:27	19.1-21.5	19.9	2.2	17.7	
			17.9-19.2	18.3		16.1	
			16.1-17.3	16.5		14.3	
	A		12.5-13.5	12.8		10.6	Boats on bottom
	W		[illegible]	11.4		9.2	" " "
	B	12:34	[illegible]	9.8	2.3	7.5	" " "
	B		8.0-9.4	8.5		6.2	" " "
	W		7.0-8.5	7.5		5.3	
	A		5.1-7.0	5.7		3.4	
15	W		3.2-6.2	4.6		2.3	End of Line.

Boat 600+00 (N)

Profile
Notes Red [illegible] Plotted H. U. M. H. Job No. 84 Division No.
No. Date 2-3-47 Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Hinman Notes B.S. Date 12-16-46
No. Date Date Map No. Indexed ALBERT E. TIMMONS Date

F.B. 1239 PG. 185

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.

F.B. 1286 PG. 186 | Job No. 8412 | Division No. | Notes Red. | Plotted H.U.M.H. | No. | Profile
Survey of | Notes | Date | Date 2-3-47 | Date 1947 | No. | X-Sec.
Survey by ALBERT E. TIMMONS | Notes Chkd. | Checked | No.
Indexed | Date | Date | Date

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks	
1	R	1:50	27.2-29.0	27.8	2.4	25.4	[illegible]	6064 62.38
2	B		26.2-28.0	26.8		24.4	Boat [illegible]	
3	W		24.5-26.0	25.0	2.5	22.5		
4	B		23.0-25.0	23.7		21.2		
5	W		20.0-21.7	20.6		18.1	Boat [illegible]	
6	R	1:11	18.5-20.1	19.0	2.6	16.4	"	"
7	B		17.1-18.0	17.7		15.1	"	"
8	W		15.2-16.8	16.9		14.3	"	"
9	B		14.1-15.0	14.7		12.1	"	"
10	W		12.0-13.0	12.7		10.1	"	"
11	R	1:17	10.0-12.1	11.0	2.7	8.3	"	"
12	B		9.0-10.5	10.0		7.3		"
13	W		7.2-9.5	7.9		5.2	"	"
14	B		6.0-7.0	6.3		3.6		"
15	W		4.0-5.0	4.3		1.6		"
16	R	1:24	3.5-5.0	4.0	2.7	1.3	Boat [illegible]	Line.

Boat
6064+62.38(N)

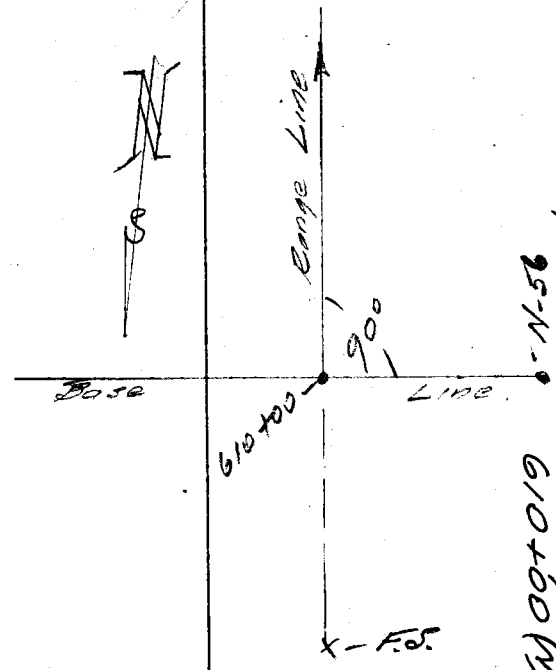
FORM 307 5M 1-46

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		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
610+00 on base line	Ft. on range line prod'd back	1	R	8 31	180 10	Range Line ∡ = 180° at inst. sta.
		2	B		179 55	
		3	W		179 45	Note: This line run to (-20') depth only.
		4	B		179 30	
		5	W		180 25	
		6	R	8 38	179 20	
		7	B		180 35	
		8	W		180 10	
		9	B		180 15	
		10	W		180 20	
		11	R	8 45	181 20	
		12	B		179 45	End.



Range 610+00 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted H. U. M. H. Date ____ Job No. 8447 Division No. ____ Survey of Beach Erosion Date 1947 Survey by Kleineck Notes GWK Date 12-17-46

X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 187

FORM 307 5M 1-46

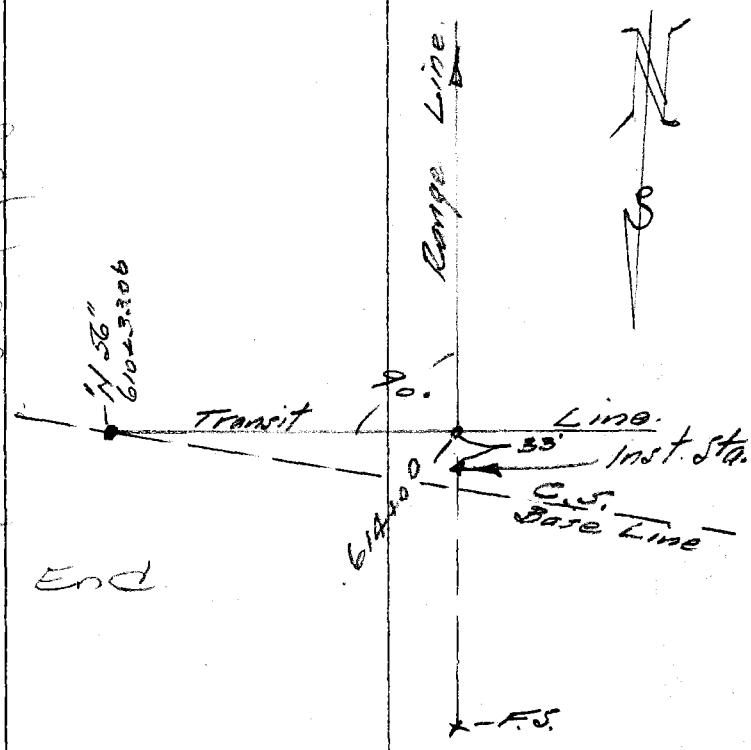
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
614	Pt. on	1	R	9 04	18[illegible]	Range Line ∡ = 180° at inst. sta.
+00	range	2	B		179[illegible]	
(N)	line	3	W		180[illegible]	
33'	prod	4	B		180[illegible]	
in on	backwards	5	W		180[illegible]	
range		6	R	9 21	179[illegible]	
line		7	B		180[illegible]	
from		8	W		180[illegible]	
orig.		9	B		180[illegible]	
transit		10	W		180 30	
or		11	R	9 36	180[illegible]	
control		12	B		180[illegible]	
line		13	W		18[illegible]	
		14	B		180[illegible]	
		15	W		18[illegible]30	End

Range 614+00 (N)



F.B. 1289 PG. 188

Job No. 8412 Division No. ____ Notes Red ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____

Survey by Meineck Notes GWK 12-17-46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ALBERT E. TIMMONS 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	
600+00	600+00	1	R	8:32	203-00	Range 610+00 (N)	
35.60	on	2	B		205-50		
out	base	3	W		209-00		
on range line	line	4	B		211-35		
		5	W		215-40		
		6	R	8:39	218-45		
		7	B		223-35		
		8	W		225-50		
		9	B		234-00		
		10	W		236-30		
		11	R	8:46	243-00		
		12	B		[illegible]		

See pg. 181

Cut in 610+00 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8214 Division No. ____ F.B. 1289 PG. 189
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinrath Notes Chkd Date 12-17-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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	
600+00 (N)	600+00 on base line	1	R	9:04	196-05	Range	614+00
35.60 out on range line.		2	B		200-50		
		3	W		205-35		
		4	B		209-10		
		5	W		213-30		
		6	R	9:23	216-30		
		7	B		22[illegible]-55		
		8	W		226-35		
		9	B		230-50		
		10	W		234-35		
		11	R	9:35	238-05		
		12	B		242-10		
		13	W		246-45		
		14	B		249-10		
		15	W		250-15		

See pg. 181

Cut in 614+00 (N)

F.B. 1289 PG. 190

Job No. 842 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____

Survey by Meiner Notes CWW 12-17-46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	8:33	2[illegible].2-25.1	23.8	3.6	20.2	Range 610+00 (N)
2	[illegible]		21.1-22.1	21.4		17.8	Going in
3	[illegible]		20.1-22.2	2[illegible]		17.2	
4	[illegible]		18.2-20.0	[illegible]		15.2	Note: This line run
5	[illegible]		16.2-19.0	17.[illegible]		13.5	out to a -20' depth
6	[illegible]	8:40	15.3-16.4	[illegible]	3.5	12.2	only
7	[illegible]		13.2-15.1	13.8		10.3	
8	[illegible]		11.3-13.0	11.4		8.4	
9	[illegible]		10.2-12.0	10.[illegible]		7.3	
10	[illegible]		9.2-9.8	[illegible]		5.2	
11	R	8:47	6.[illegible]-7.8	[illegible]	3.4	3.5	
12	[illegible]		4.5-6.8	5.3		1.9	End of Line.

Boat
610+00 (N)

Profile No. ____ Notes Red ____ Date 2-3-47 Plotted H U M H Date 1947 Job No. 8412 Division No. ____ Survey of [illegible] Notes D.S. Date 12-17-46

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by [illegible] Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 191

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	7:06	27.1-27.1	27.8	3.1	24.7	[illegible]
2	R		25.8-27.8	26.5		23.4	[illegible]
3	W		24.5-25.7	24.1	3.0	21.9	
4	B		23.4-23.9	23.6		20.6	
5	W		21.2-22.2	21.5	2.9	18.6	
6	R	9:24	19.3-20.1	19.6	2.8	16.8	
7	B		18.1-18.0	18.4		15.6	
8	W		16.3-17.4	16.7		13.9	Rock
9	B		14.3-15.1	14.6	2.7	11.9	
10	W		12.8-13.4	13.0		10.3	
11	R	9:35	10.9-11.4	11.1	2.6	8.5	
12	B		8.9-9.9	9.2		6.6	Rock
13	W		7.0-8.2	7.4		4.8	"
14	B		5.9-6.6	6.1		3.5	"
15	W		4.6-5.3	4.8		2.2	End of Line.

Boat 614+00 (W)

F.B. 1289 PG. 192

Job No. 8212 Division No. ____ Notes Red. [illegible] Plotted H.U.M.H. Profile

Survey of Pea[illegible] Date 2-3-47 Date 1947 No. ____ X-Sec.

Survey by [illegible] Notes D.S. 12-17-46 Notes Chkd. ____ Checked ____

Indexed ALBERT S. TIMMONS Date ____ Date ____ Date ____ No. ____

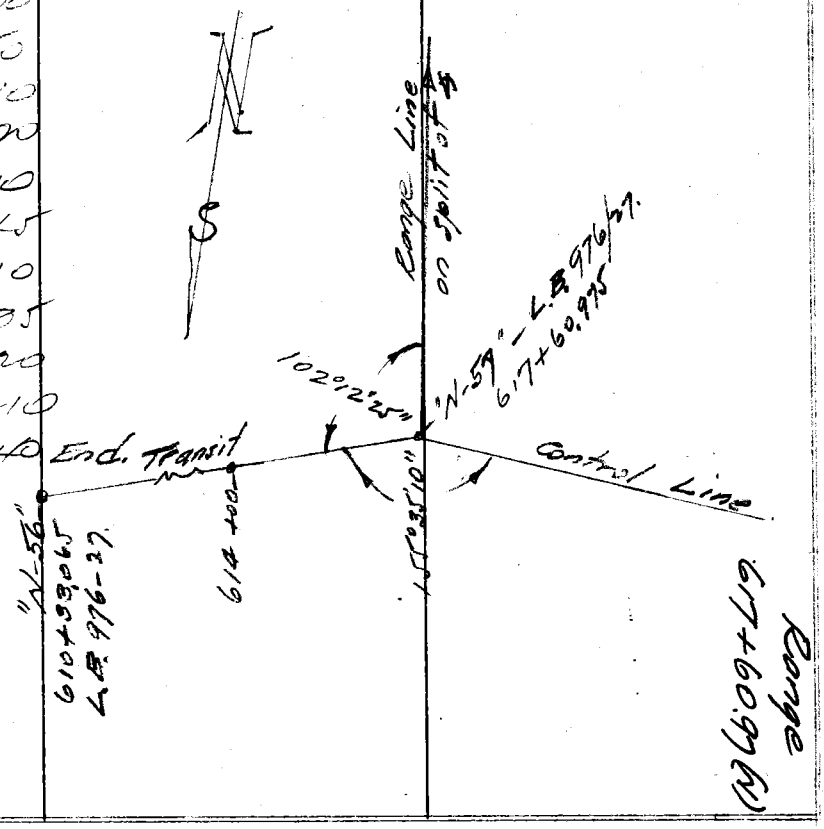
FORM 307 5M 1-46

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
617 +60.97	614 +00	1	R	1008	102 00	Range Line ∡ = 102° 12' 25"
On		2	B		102 00	
orig.		3	W		101 50	
Transit		4	B		102 10	
Control		5	W		102 20	
line-		6	R	1022	102 10	
not		7	B		101 45	
C.S.		8	W		102 10	
Base		9	B		102 35	
Line.		10	W		101 20	
		11	R	1031	102 10	
		12	B		101 40	



Profile Notes Red. Plotted H. U. M. H. Job No. 8412 Division No.
No. Date Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Maurer Notes GWK Date 12-17-'46
No. Date Date Map No. Indexed ALBERT E. TIMMONS Date

F.B. 1289 PG. 193

F.B. 1289 PG. 194 | Job No 8412 | Division No. | Notes Red. | Plotted H. U. M. H. | Profile No.
Survey of Beach Erosion | Date | Date 1947
Survey by Kleinecke | Notes S.H.K. 12-18-46 | Notes Chkd. | Checked | X-Sec.
Indexed ALBERT E. TIMMONS | Date | Date | Date | No.

FORM 307 5M 1-46

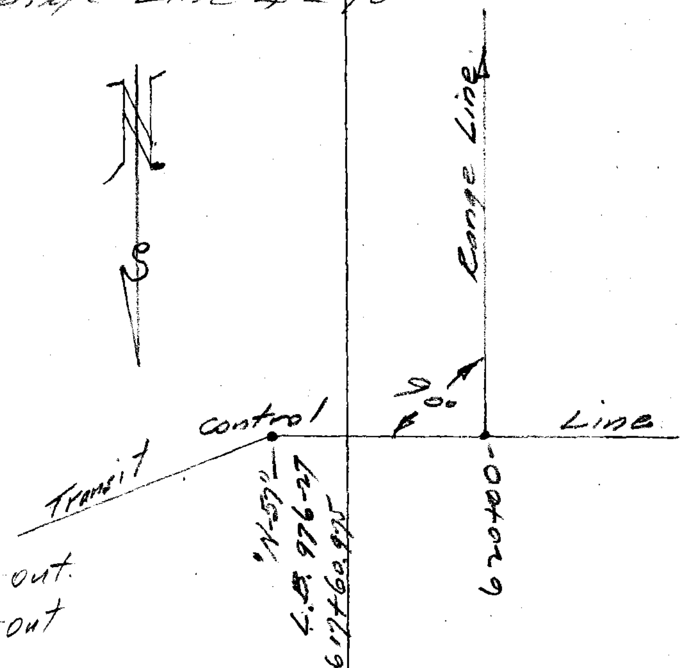
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
620+00 on orig. transit control line	617+60.97 ditto	1	R	803	90 00	Range Line ∡ = 90°
		2	B		90 20	
		3	W		91 15	
		4	B		90 30	
		5	W		89 55	
		6	R	816	90 05	
		7	B		90 30	
		8	W		89 45	
		9	B		90 00	
		10	W		90 00	
		11	R	824	90 00	
		12	B		90 40	
		13	W		90 30	
		~~14~~	B		90 15	out
		~~15~~	W		89 30	out
		16	R	830	90 00	
		17	B		90 00	End.

Range 620+00 (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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
600+00 -(N)	600+00	1	R	10:09	215-20	Range 617+60.97	
35.60 out	on	2	B		217-05		
on	base	3	W		221-15		
range	line	4	B		224-00		
line		5	W		228-15		
		6	R	10:23	233-20		
		7	B		235-10		
		8	W		237-25		
		9	B		240-00		
		10	W		243-00		
		11	R	10:32	246-45		
		12	B		248-45		

See pg. 181

Cut in.
617+60.97(N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1284 PG. 195
Date ____ Date ____ 1947 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Alameda Notes CWW. Date 12-17-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
620+00	623 + 43.29	1	R	8:04	50-00	Range 620+00	
On orig. transit control line - Not C.S. Base Line		2	B		48-10		
		3	W		46-35		
		4	B		42-50		
		5	W		40-10		
		6	R	8:17	38-00		
		7	B		36-45		
		8	W		33-55		
		9	B		31-10		
		10	W		28-50		
		11	R	8:25	26-55		
		12	B		22-50		
		13	W		19-00		
		14	B		—	out	
		15	W		—	out	
		16	R	830	600		
		17	B		0-10		

Cut in 620+00 (N)

F.B. 1289 PG. 196

Job No. 8412 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____ X-Sec.

Survey by Kleinert Notes CWW 12-18-46 Notes Chkd. ____ Checked ____ No. ____

Indexed ALBERT E. TIMMONS Date ____ 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	10:11	27.7-28.4	27.9	2.1	25.8	Range 617+60.97 (N)
2	E		25.4-26.2	25.7		23.6	Going in.
3	W		23.2-24.2	23.5		21.4	
4	B		21.1-22.1	21.4		19.3	
5	N		19.5-20.6	19.9		17.8	
6	R	10:24	17.3-18.4	17.7	2.0	15.7	
7	E		15.4-16.4	15.7		13.7	
8	W		13.3-15.4	14.0		12.0	Rocks.
9	B		11.2-12.1	11.4		9.4	
10	W		9.1-10.2	9.5		7.5	
11	R	10:33	6.9-7.9	7.3	1.9	5.4	
12	E		4.4-5.4	4.7		2.8	End of line.

Boat.
617+60.97 (N)

Profile
No. ____ Date 2-3-47 Notes Red. [illegible] Plotted H.U.M.H. Job No. [illegible] Division No. ____
X-Sec. Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Klemcock Notes D.S. Date 12-17-46
Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 197

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	8:04	29.0-31.2	29.7	4.5	25.2	[illegible]
2	[illegible]		27.7-29.3	28.2		23.7	[illegible]
3	[illegible]		25.8-28.0	26.5		22.0	
4	[illegible]		24.1-25.8	24.7		20.2	
5	[illegible]		22.5-24.2	23.1		18.6	
6	[illegible]	8:17	21.2-23.0	21.8	4.4	17.4	
7	[illegible]		19.6-21.5	20.2		15.8	
8	[illegible]		18.2-[illegible]	18.9		14.5	
9	[illegible]		16.2-18.1	16.8		12.4	
10	[illegible]		14.3-7.3	15.3		10.9	
11	[illegible]	8:26	13.1-15.8	14.0	4.[illegible]	9.7	
12	[illegible]		11.4-13.0	11.9		7.6	[illegible]
13	[illegible]		10.1-12.0	10.7		6.4	"
~~14~~	~~[illegible]~~		~~8.8-10.8~~	out			
~~15~~	~~[illegible]~~		~~7.2-9.2~~	out			
16	[illegible]	8:31	5.6-8.3	6.5	4.2	2.3	
17	B		4.5-6.4	5.1		0.9	

Boat 620+00 (N)

F.B. 1289 PG. 198

Job No. 8412 Division No. Notes Red 243 Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 2-3-47 Date 1947 No. X-Sec.

Survey by Kleiner Notes D.S. 12-18-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date Date Date No.

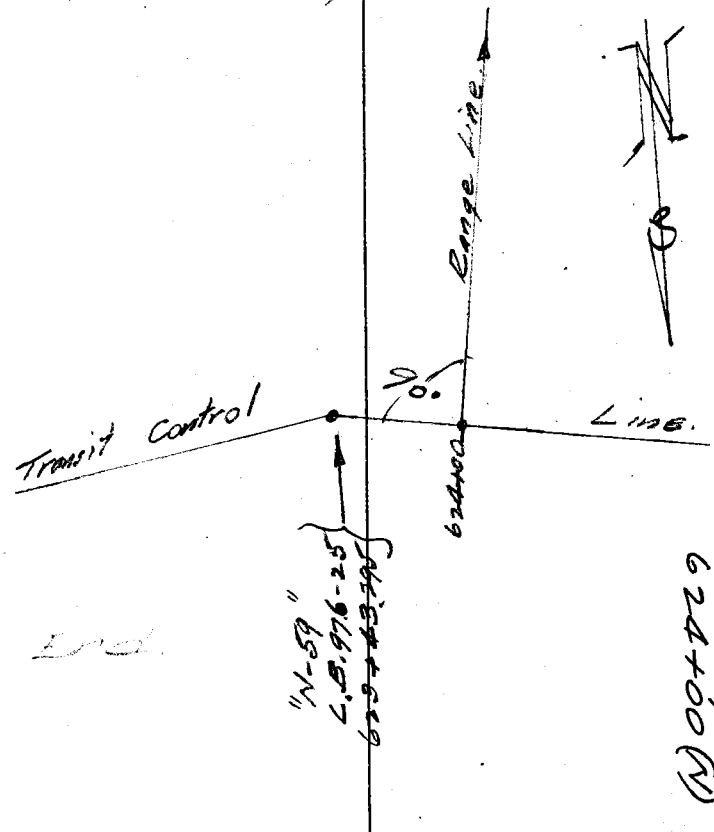
FORM 307 5M 1-46

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
624+00 (N)	623+43.29 (4 Pt)	1	R	847	9035	Range Line ∡ = 90°
		2	F		8950	
On orig. transit control line		3	W		9005	
		4	B		9050	
		5	W		8940	
		6	E	902	9105	
		7	B		[illegible]	
		8	W		9000	
		9	B		8945	
		10	W		9020	
		11	R	907	9105	
		12	E		8945	
		13	W		9100	
		14	F		9000	
		15	W		9035	
		16	R	917	9200	End



Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.E. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Kleinert Notes GWK Date 12-18-46
Date ____ Date ____ Map No. ____ Indexed ALBERT S. TIMMONS Date ____

F.B. 1259 PG. 199

F.B. 1289 PG. 200

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Kleneck Notes Aug 12-18-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

Range
630+00 (N)

See L.B. 976

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.	
630	624	1	R	926	90 00	Range Line ∡ = 90°
400	400	2	B		90 00	
Out	(N)	3	W		90 00	
on		4	B		90 00	
Orig.		5	W		90 00	
Transit		6	R	940	90 00	
Control		7	B		90 00	
Line		8	W		90 00	
		9	B		90 00	
		10	W		90 00	
		11	R	945	90 00	
		12	B		90 00	
		13	W		90 00	
		14	B		90 00	
		15	W		90 00	
		16	R	951	90 00	

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 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	
620 +00 (N)	617+ 6097	1	R	8:48	129-15	Range 624+00	
		2	B		130-35		
on orig. transit control line	ditto	3	W		133-10		
		4	B		136-20		
		5	W		137-25		
		6	R	9:03	140-15		
		7	B		141-40		
		8	W		143-50		
		9	B		146-25		
		10	W		148-00		
		11	R	9:08	150-10		
		12	B		151-40		
		13	W		154-10		
		14	B		157-40		
		15	W		159-00		
		16	R	9:17	163-45		

Cut in. 624+00 (N)

Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 PG. 201
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes CWW Date 12-18-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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	
624+00	623+	1	R	9:27	113-25	Range 630+00	
	43.29	2	B		115-05		
on orig Transit control Line Not C.S. base Line		3	W		117-00		
		4	B		119-40		
	Ditto	5	W		122-20		
		6	R	9:40	127-15		
		7	B		131-35		
		8	W		133-55		
		9	B		135-50		
		10	W		138-20		
		11	R	9:44	141-20		
		12	B		145-10		
		13	W		148-30		
		14	B		153-15		
		15	W		154-30		
		16	R	9:52	160-25		

Cut in. 630+00 (N)

F.B. 1289 PG. 202

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Hemack Notes CWW. 12-18-46 Notes Chkd. Checked No.

ALBERT E. TIMMONS

Indexed 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.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks	
1	R	8:[illegible]	[illegible]	28.5	3.8	24.7		Range 624+00 [illegible]
2	R		24.[illegible]-28.2	26.9		23.1		[illegible]
3	W		24.[illegible]-27.[illegible]	25.5		21.7		
4	R		23.5-25.9	24.3	3.7	20.6		
5	W		22.[illegible]-24.[illegible]	22.7		19.0		
6	R	9:0[illegible]	20.[illegible]-22.[illegible]	20.9	3.6	17.3		
7	R		17.3-19.[illegible]	18.1		14.5		
8	W		[illegible]	16.5		12.9		
9	R		14.[illegible]-1[illegible]	14.7		11.1		
10	W		12.[illegible]-14.2	13.0		9.4		
11	R	9:08	11.0-14.0	12.0	3.5	8.5		[illegible]
12	R		10.1-13.5	11.2		7.7		
13	W		[illegible]-10.2	9.3		5.8		
14	R		[illegible]-9.[illegible]	8.0	3.4	4.6		
15	W		6.[illegible]-8.0	6.7		3.3		
16	R	[illegible]:17	[illegible]-7.[illegible]	5.6	3.3	2.3		End of [illegible]

Boat 624+00 W

Profile No. ____ Date ____ Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 203
X-Sec. Date 2-3-47 Date 1947 Survey of Beach Erosion
Notes Chkd ____ Checked ____ Survey by Kleinsek Notes D.S. Date 12-18-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	[illegible]	[illegible]	28.1	3.1	25.0	[illegible]
2	[illegible]		26.[illegible]	27.4		24.3	[illegible]
3	W		[illegible]	26.3		23.2	
4	[illegible]		[illegible]	25.3		22.2	
5	W		[illegible]	23.8		20.7	
6	R	[illegible]	[illegible]	22.2	3.0	19.2	
7	[illegible]		[illegible]	19.7		16.7	
8	W		[illegible]	17.7		14.7	
9	R		[illegible]	16.1	2.9	13.2	
10			[illegible]	15.0		12.1	
11	R	[illegible]	12.5-13.[illegible]	13.0	2.8	10.2	
12	[illegible]		[illegible]	11.6		8.8	
13	W		[illegible]	10.3		7.5	
14	R		[illegible]	9.0		6.2	[illegible]
15	W		[illegible]	5.0		2.2	
16	R	[illegible]	[illegible]	6.3	2.7	3.6	[illegible]

Boat 630+00 (N)

F.B. 1789 PG. 204

Job No. 8412 Division No. ____ Notes Red [illegible] Date 2-3-47 Plotted H. U. M. H. Date 1947 Profile No. ____

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

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

Indexed ALBERT E. TIMMONS

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	
636	630	1	R	1000	8955	Range Line ∡ = 400	
+00	[illegible]	2	B		9100		
(N)		3	W		[illegible]		
[illegible]		4	B		9040		
[illegible]		5	W		9000		
[illegible]		6	R	1015	8950		
[illegible]		7	B		9040		
		8	W		9020		
		9	B		9030		
		10	W		9015		
		11	R	1020	9040		
		12	B		9045		
		13	W		8940		
		14	B		9120	End.	

See L.B. 976

Range 636 +00 (N)

Profile Notes Red. ____ Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 Pg. 205
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Klemeck Notes Gatt. Date 12-18-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 206

Job No. 8412 Division No. _____ Notes Red. _____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date _____ Date 1947 No. _____

Survey by Kleneck Notes Gwk. 12-18-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

Range 640+00(N) See LB 976

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
640	636	1	R	1036	90.25	Range Line ∡ = 90°	
400	400	2	B		90.00		
N	(N)	3	W		90.25		
Out		4	B		90.25		
on		5	W		90.25		
Orig.		6	R	1044	91.00		
Talent		7	B		90.00		
Control		8	W		90.00		
Line		9	B		89.25		
		10	W		89.25		
		11	R	1057	89.25		
		12	B		89.50		
		13	W		90.25		
		14	B		90.00		
		15	W		89.50		

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 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	
624+00	623+ 43.29	1	R	10:04	131-00	Range 636+00	
		2	B		133-20		
On Original Transit Control Line Not C.S. Base Line	Ditto	3	W		135-40		
		4	B		140-00		
		5	W		144-15		
		6	R	10:16	147-20		
		7	B		150-25		
		8	W		152-20		
		9	B		153-20		
		10	W		155-20		
		11	R	10:21	158-20		
		12	B		159-10		
		13	W		167-10		
		14	B		169-20		

Cut in. 636+00 (N)

Profile Notes Red ____ Plotted H.U.M. Job No. 842 Division No. ____ F.B. 1289 PG. 207
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Hameed Notes CWW Date 12-18-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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
624+00	623+	1	R	10:36	134-00	Range 640+00
	43.29	2	B		136-05	
on orig		3	W		138-40	
Transit Control Line		4	B		142-20	
	Dito	5	W		14[illegible]-35	
Not on C.S. base line		6	R	10:51	149-10	
		7	B		152-10	
		8	W		155-35	
		9	B		156-50	
		10	W		158-35	
		11	R	10:58	160-25	
		12	B		164-10	
		13	W		165-55	
		14	B		169-45	Check Flag
		15	W		172-35	
		~~16~~				

Cut in. 640+00 (N)

F.B. 1289 PG. 208

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Wenck Notes Cwu 12-18-46 Notes Chkd Checked No.

Indexed ALBERT E. TIMMONS Date 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	[illegible]	[illegible]	[illegible]	27.9	2.5	25.4	[illegible] Range 636+00 (N)
2	[illegible]		[illegible]	26.5		24.0	" [illegible]
3	[illegible]		24.9-[illegible]	25.2		22.7	"
4	[illegible]		[illegible]-22.2	23.7	2.4	21.3	"
5	[illegible]		[illegible]-22.[illegible]	21.8		19.4	"
6	[illegible]	[illegible]	[illegible]	19.8	2.3	17.5	"
7			[illegible]	18.2		15.9	"
8	[illegible]		[illegible]-16.9	15.9		13.6	"
9			[illegible]	14.6		12.3	"
10	[illegible]		12.7-13.8	13.2		10.9	"
11		[illegible]	10.7-11.6	11.1	2.2	8.9	"
12	[illegible]		[illegible]	9.6		7.4	"
13	[illegible]		[illegible]	10.1		7.9	
14	[illegible]		[illegible]	7.7		5.5	End of Line.

Boat. 636+00 (N)

Profile
No. ____ Date 2-3-47 Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Notes Chkd. ____ Checked ____ Survey of 1947 Survey of Beach Erosion
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Notes [illegible] Date 12-18-46 Date ____

F.B. 1289 G. 209

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
[illegible]	[illegible]	[illegible]	[illegible]	27.9	[illegible]	25.9	[illegible]
			[illegible]	26.8		24.8	[illegible]
[illegible]	[illegible]		[illegible]	25.7		23.7	
[illegible]	[illegible]		23.5-26.1	24.4	1.7	22.5	
[illegible]			[illegible]	22.5		20.6	
	[illegible]	[illegible]	[illegible]	?	1.8	—	Probably 22.7
[illegible]	[illegible]		[illegible]	19.7		17.9	
	[illegible]		[illegible]	17.6		15.8	
[illegible]			[illegible]	16.1		14.3	
	[illegible]		[illegible]	14.7		12.9	
[illegible]	[illegible]	[illegible]	[illegible]	12.7	1.7	11.0	
[illegible]			[illegible]	10.4		8.7	
[illegible]			[illegible]	9.1		7.4	
[illegible]	[illegible]		~~6.5-7.5~~	~~6.8~~			No Good.
[illegible]	[illegible]		6.5-8.0	7.0		5.3	[illegible]

Boat. 640+00(N)

F.B. 1289 PG. 210

Job No. [illegible] Division No. [illegible] Notes Red [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 2-3-47 Date 1947 No. X-Sec.

Survey by [illegible] Notes [illegible] Notes Chkd. Checked No.

Indexed ALBERT R. TIMMONS Date 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	
641	636	1	C	1122	89 10	Range Line ∡ =	88°55'
+23.06	+00	2	B		89 00		
(N)		3	W		89 40		
Out		4	B		89 10		
on		5	W		89 45		
orig.		6	C	1140	88 40		
transit		7	B		89 30		
control		8	W		88 30		
line.		9	B		88 55		
		10	W		89 20		
		11	C	1147	88 40		
		12	B		88 20		
		13	W		88 00		
See L.B. 976		14	B		88 55	End	

Range
641+23.06 (N)

Profile
No. ____ Date ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Kleinecke Notes GWK Date 12-18-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 211

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	
644 + 47.85	640 + 00	1	R	1206	[illegible]	Range Line ∡ =	87°06'
		2	B		[illegible]		
out on orig. transit control line		3	W		87 [illegible]		
		4	B		8[illegible]		
		5	W		86 45		
		6	R	1224	87 [illegible]		
		7	B		87 [illegible]		
		8	W		87 35		
		9	B		8[illegible]		
		10	W		87 45		
		11	R	1231	8[illegible]		
		12	B		87 50		
		13	W		86 50		

Range 644+47.85(N) See L.B. 976

F.B/289 PG. 212

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Fleurset Notes Sept. 12-18-46 Notes Chkd. Checked

Indexed ALBERT S. TIMMONS 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	On	#	Color	Time	Hor. Ang.	Remarks	
636+00 (N)	630+00	1	R	11:22	106-40	Range 641+23.06	
on		2	B		108-25		
orig.		3	W		111-50		
transit		4	B		114-50		
Control		5	W		117-35		
Line		6	R	11:41	121-05		
		7	B		124-30		
		8	W		126-20		
		9	B		128-20		
		10	W		130-40		
		11	R	11:49	137-50		
		12	B		138-50		
		13	W		144-15		
		14	B		151-30		

Cut in 641+23.06 (N)

Profile No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 8417 Division No. ____ F.B. 1289 PG. 213
Date ____ Date 1947 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by Flemech Notes EWW Date 12-18-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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	
636+00 (N) on orig. Transit Control Line.	630+00	1	R	12:06	113-20	Range Line 644+47.85	
		2	B		116-15		
		3	W		119-20		
		4	B		122-50		
		5	W		126-40		
		6	R	12:25	131-20		
		7	B		135-10		
		8	W		138-30		
		9	B		140-55		
		10	W		144-40		
		11	R	12:32	147-55		
		12	B		154-55		
		13	W		160-[illegible]		

Cut in 644+47.85 (N)

F.B. 1284 PG. 214

Job No. 842 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____

Survey by Hemack Notes CWW. 12-18-46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	11.[illegible]	26.[illegible]-2[illegible]	27.4	1.4	26.0	Range 641+23.06 (N)
[illegible]	[illegible]		25.1-27.7	26.0		24.6	Going [illegible]
[illegible]	[illegible]		23.2-25.7	24.0		22.6	
4	[illegible]		21.7-23.7	22.4	1.3	21.1	
[illegible]	[illegible]		20.2-22.1	20.8		19.5	
[illegible]	[illegible]	11:40	18.7-21.2	19.5	1.2	18.3	
[illegible]	[illegible]		17.1-19.2	17.8		16.6	
[illegible]	[illegible]		15.1-18.0	16.1		14.9	
[illegible]	[illegible]		14.1-16.0	14.7		13.5	
[illegible]	[illegible]		12.7-14.8	13.4		12.2	
[illegible]	[illegible]	11:48	11.0-13.1	11.7	1.1	10.6	
[illegible]	[illegible]		9.1-11.7	10.0		8.9	
[illegible]	W		7.8-10.1	8.6		7.5	End of Line
14	B		6.2-8.5	7.0		5.9	

Boot.
641+23.06 (N)

Profile
No. ____ Date 2-3-47 Plotted H.U.M.H. Job No. 9412 Division No. ____
X-Sec. Notes Chkd. ____ Checked ____ Survey of Beach Erosion
No. ____ Date ____ Date ____ Survey by [illegible] Notes D.S. Date 12-18-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1284 PG. 215

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	[illegible]	[illegible]	[illegible]	27.1	0.9	26.2	[illegible]
[illegible]	[illegible]		[illegible]	25.7		24.8	[illegible]
3			23.1-25.3	23.8		22.9	
4			21.5-23.6	22.2		21.3	
[illegible]			20.0-22.7	20.9		20.0	
6	[illegible]	[illegible]:26	18.5-20.7	19.2	0.8	18.4	
[illegible]			17.0-19.6	17.9		17.1	
[illegible]			15.3-17.1	15.9		15.1	
[illegible]			13.9-16.0	14.6		13.8	
			11.2-14.0	12.1		11.3	
		[illegible]:32	9.5-12.0	10.3	[illegible]	9.5	
[illegible]			7.0-9.3	7.8		7.0	
13			7.0-10.5	8.2		7.4 ?	Rocks, End of Line.

Boat.
644+47.85(N)

F.B. 1289 PG. 216

Job No. 8112 Division No. [illegible] Notes Red. [illegible] Plotted H.U.M.H. Profile

Survey of [illegible] Date 2-3-47 Date 1947 No. X-Sec.

Survey by [illegible] Notes [illegible] Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date Date Date

FORM 307 5M 1-46

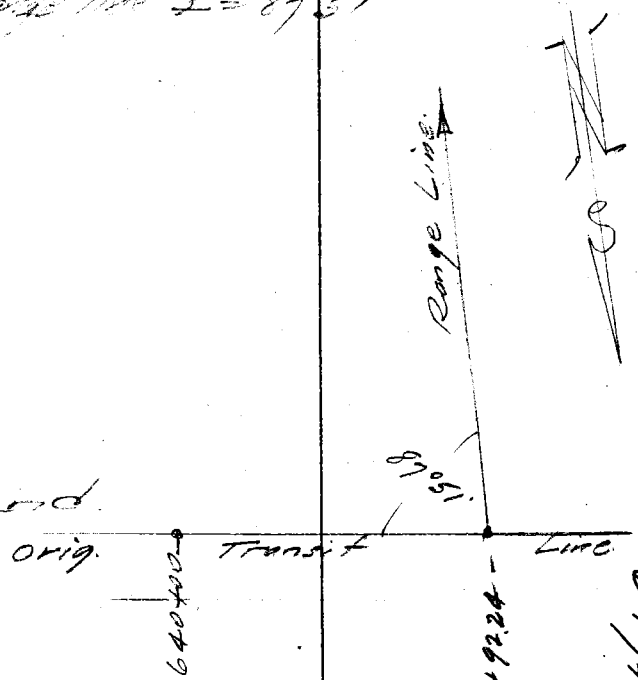
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
647+	640	1	R	12 44	87 45	Range line ∠ = 87°51
92.24	+00	2	B		87 55	
out		3	W		87 55	
or		4	S		87 40	
orig.		5	W		87 25	
transit		6	E	12 59	87 50	
contr.		7	B		87 50	
line		8	W		87 45	
		9	B		87 [illegible]	
		10	W		87 05	
		11	C	1 06	87 30	
		12	B		87 30	End

See L.B. 976



Range
647+92.24(N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Wiemeyer Notes Bwk Date 12-18-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 Pg. 217

FORM 307 5M 1-46

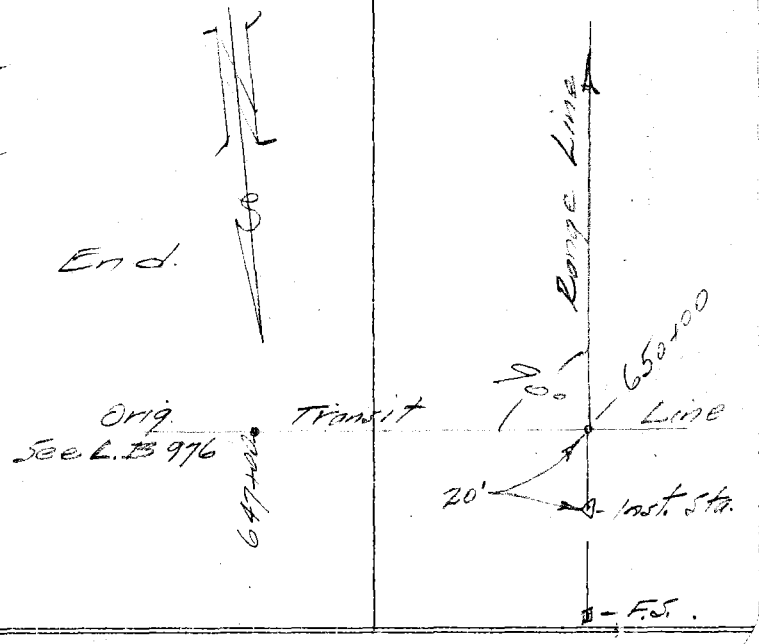
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
650 +00 (N)	Pt. on range line prod'd backwards	1	R	812	179.50	Range Line ∠ = 180° at inst. Sta.
		2	B		180.00	
		3	W		180.00	
20' northerly on range line from transit control line		4	B		179.30	Note: This line run to -20' depth only.
		5	W		179.35	
		6	R	821	179.45	
		7	B		180.00	
		8	W		180.45	
		9	B		180.40	
		10	W		179.55	
		11	R	828	180.50	
		12	B		180.55	End.

Range 650+00 (N)



F.B. 1289 PG. 218

Job No. 8412 Division No. ____ Notes Red. ____ Plotted U.M.H. Profile
Survey of Beach Erosion Date ____ Date 1947 No. ____
Survey by Wenck Notes GWK 12-19-46 Notes Chkd. ____ Checked ____ X-Sec.
Indexed ALBERT E. TIMMONS 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 / On	#	Color	Time	Hor. Ang.	Remarks	
638+00 (N)	1	R	12:45	123-20	Range 647+92.24	
on orig. transit control line } ditto	2	B		125-35		
	3	W		128-20		
	4	B		132-00		
	5	W		13[illegible]-00		
	6	R	[illegible]	141-45		
	7	B		145-50		
	8	W		14[illegible]		
	9	B		151-20		
	10	W		153-10		
	11	R	1:07	155-35		
	12	B		15[illegible]		
	~~13~~	~~W~~				

Cut in
647+92.24 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by H. Plaineck Notes Cul. W. Date 12-18-'46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 219

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
644+	641+	1	R	8:10	105-10	Range 650+00
47.85	23.06	2	B		10[illegible]-15	
On Orig. Transit Control Line		3	W		11[illegible]-30	
		4	B		116-40	
		5	W		118-25	
		6	R	8:20	121-[illegible]0	
		7	B		12[illegible]-10	
		8	W		124-00	
		9	B		136-50	
		10	W		143-[illegible]0	
		11	R	8:28	151-50	
		12	B		159-[illegible]0	

Cut in 650+00 (N)

F.B. 289 PG. 220

Job No. 2412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date Date 194[illegible] No. X-Sec.

Survey by Meineck Notes CWW. 12-19-'46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
		12:45	25.2-26.5	25.6	0.8	24.8	[illegible]
			24.0-26.2	24.7		23.9	[illegible]
			22.9-25.3	23.7		22.9	
			21.1-24.0	22.1		21.3	
			20.0-22.0	20.7		19.9	
		12:59	17.8-20.5	18.7	0.8	17.9	
			15.8-18.1	16.6		15.8	
			14.2-16.0	14.8		14.0	
			12.4-14.8	13.2		12.4	
			10.9-13.0	11.6		10.8	
		1:07	9.0-10.1	9.4	0.8	8.6	
			7.2-11.0	8.5		7.7	End of Line.

Boat.
647+92.24(N)

Profile
No. ____ Date 2-3-47 Notes Red. [illegible] Plotted H.U.M.H. Date ____ Job No. S4/12 Division No. ____
X-Sec. Notes Chkd. ____ Checked ____ Survey of 1947 Survey of [illegible]
No. ____ Date ____ Date ____ Survey by Heimeck Notes D.S. Date 12-18-46
Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 221

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	[illegible]	[illegible]	24.7	[illegible]	19.6	Range 650+00 (N)
2	B		22.7-[illegible]	23.6		18.5	Going in.
3	W		[illegible]	22.2		17.1	
4	B		[illegible]	20.3		15.2	
5	W		[illegible]	[illegible]		13.9	
6	R	[illegible]	[illegible]	17.1	[illegible]	12.1	
7	B		[illegible]	[illegible]		11.0	
8	W		13.3-16.3	11.2		9.3	
9	B		12.0-[illegible]	12.9	4.9	8.0	
10	W		[illegible]	[illegible]		6.2	
11	R	[illegible]	8.2-[illegible]	10.0	4.8	5.2	
12	B		8.2-10.0	8.8		4.0	[illegible]

Boat. 650+00 (N)

F.B. 1289 PG. 222

Job No. 8412 Division No. Beach Erosion Notes Red. [illegible] Plotted H. U. M. H. Date 2-3-47 Date 1941 No. Profile

Survey of Beach Erosion Date 2-3-47 Date 1941 No. X-Sec.

Survey by Kleinsack Notes D.S. 12-19-46 Notes Chkd. Checked

Indexed ALBERT E. TIMMONS Date Date Date No.

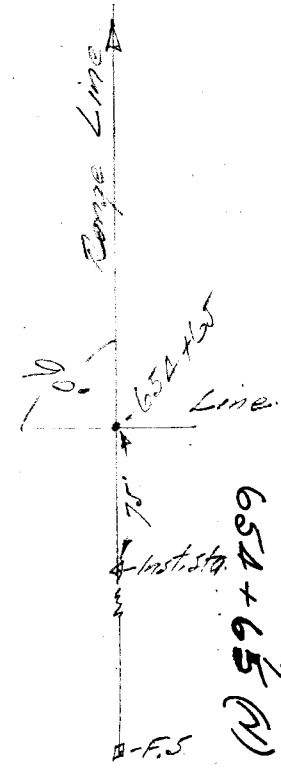
FORM 307 5M 1-46

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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
654+ 65 75' northerly on range line from transit control line	Pt. on range line prod back word	1	R	851	180 20	Range Line ∡ = 180° at inst. sta.	
		2	B		179 50		
		3	W		179 55		
		4	B		180 25		
		5	W		180 55		
		6	R	907	181 40		
		7	B		179 40		
		8	W		179 40		
		9	B		181 00		
		10	W		178 30		
		11	R	914	178 55	Orig. Transit	
		12	B		179 35	See L.B. 976.	
		13	W		180 00		
		14	B		180 00		
		15	W		180 50	End	



Range 654+65 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 5442 Division No. ____ F.B. 1289 PG. 223
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinock Notes GWK Date 12-19-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

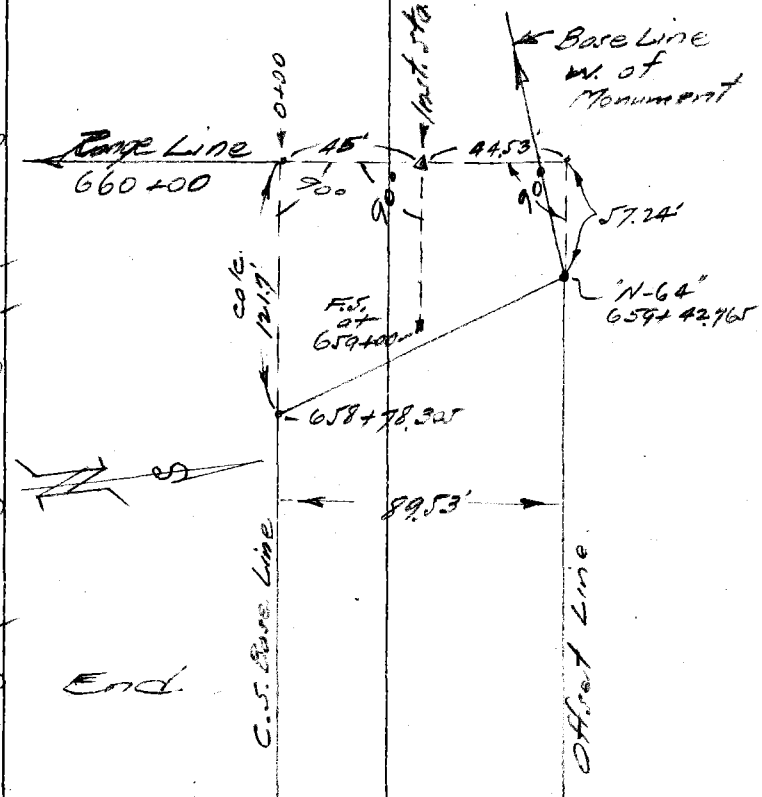
FORM 307 5M 1-46

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
660+00(N)	659+00	1	R	9 31	90 10	Range line ∡ = 90° at inst. Sta.
45' North of C.S. Base Line prod'd Westwardly	ditto	2	B		90 05	
		3	W		89 40	
		4	B		90 40	
		5	W		90 00	
		6	R	9 46	89 50	
		7	B		89 30	
		8	W		90 05	
		9	B		89 45	
		10	W		90 30	
		11	R	9 55	90 30	
		12	B		90 25	
		13	W		90 30	
		14	B		90 50	
		15	W		89 50	
		16	R	10 02	90 15	
		17	B		89 40	End.



Range 660+00(N)

F.B. 1289 PG. 224

Job No. 8412 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____

Survey by Hemmock Notes F.W.K. 12-19-46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ALBERT E. TIMMONS 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	
6444	6414	1	R	8:50	110-10	Range	654+65
47.85	2306	2	B		114-[illegible]		
On orig. transit control line	ditto	3	W		115-10		
		4	B		120-50		
		5	W		[illegible]		
		6	R	[illegible]	[illegible]		
		7	B		[illegible]		
		8	W		135-40		
		9	B		[illegible]		
		10	W		[illegible]		
		11	R	9:14	146-30		
		12	B		151-30		
		13	W		153-25		
		14	B		157-35		
		15	W		160-55		

Cut in.
654+65 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. E412 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Meinecke Notes C.W.W. Date 12-19-46
Date ____ Date ____ Map No. ____ Indexed ALBERT H. TIMMONS Date ____

F.B. 1289 PG. 225

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
6444	6414	1	R	9:30	120-50	Range 660+00
47.85	23.06	2	B		125-55	
on orig transit control line	ditto	3	W		128-45	
		4	B		132-30	
		5	W		134-05	
		6	R	9:45	137-10	
		7	B		140-35	
		8	W		142-55	
		9	B		144-50	
		10	W		147-35	
		11	R	9:55	149-00	
		12	B		151-25	
		13	W		153-25	
		14	B		156-20	
		15	W		160-15	
		16	R	10:02	161-30	
		17	B		163-[illegible]	

Cut in 660+00 (N)

F.B. 1289 PG. 226

Job No. 8412 Division No. Notes Red. Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 19-17 No.

Survey by Meneck Notes CWW. 12-19-44 Notes Chkd. Checked X-Sec.

Indexed ALBERT E. TIMMONS 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	[illegible]	[illegible]	29.5	4.5	25.0	Range 654+65 (N)
2	B		27.0-29.1	27.7		23.2	Going in.
3	W		25.7-28.0	26.5	4.4	22.1	
4	B		24.2-27.0	25.1		20.7	
5	W		22.7-25.3	23.6	4.3	19.3	
6	R	9:07	21.8-24.0	22.5	4.2	18.3	
7	B		20.5-22.7	21.2		17.0	
8	W		18.8-21.1	19.6		15.4	
9	B		17.3-18.2	17.6	4.1	13.5	
10	W		15.3-17.0	15.9		11.8	
11	R	9:15	13.7-15.6	14.3	4.0	10.3	
12	B		11.9-13.8	12.5		8.5	
13	W		10.2-12.3	10.9		6.9	
14	B		8.0-10.0	8.7		4.7	
15	W		7.0-9.0	7.7		3.7	End of Line.

Boat
654+65 (N)

Profile
No. _____ Date 2-3-47
X-Sec.
No. _____ Date _____

Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. _____
Date 2-3-47 Date 1947 Survey of Beach Erosion
Notes Chkd. _____ Checked _____ Survey by Klemeck Notes D.S. Date 12-19-46
Date _____ Date _____ Map No. _____ Indexed ALBERT R. TIMMONS Date _____

F.B. 1289 PG. 227

F.B. 1289 PG. 228

Job No. 9612 Division No. _____ Notes Red. NB Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 2-3-47 Date 1947 No. _____

Survey by Klemeck Notes DS, 12-19-46 Notes Chkd. _____ Checked _____ X-Sec.

Indexed ALBERT E. TIMMONS Date _____ Date _____ Date _____ No. _____

FORM 307 5M 1-46

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1								29.0	2.1	25.3 Probably 29.5	
2								? 25.3			
3							25.8-27.3	26.3	3.2	22.7	
4							24.5-26.2	25.3		21.7	
5							23.7-24.6	24.3	3.5	20.8	
6								22.7	3.4	19.3	
7						2:45	20.0-22.2	21.5		18.1	
8								20.3	3.2	17.0	
9								19.1		16.8	
10								17.1		14.8	
11								15.3	3.1	12.1	
12								14.2		11.0	
13								12.3		9.1	
14							8.8-11.5	10.4		7.2	
15							8.0-9.6	8.5		5.3	
16						10:02	6.0-8.3	6.8		3.7	
17							5.0-7.0	5.7		2.6	

Boat.
660+00(H)

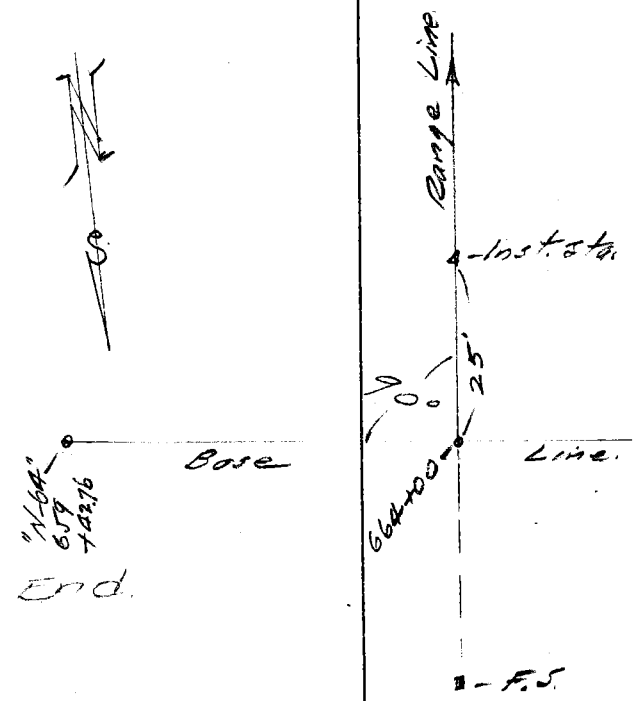
FORM 307 5M 1-46

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	
664+00 (N)	Pt on range line, prodd Sub Ward	1	R	1022	180 30	Range line ∡ = 180° at inst sta.	
25' out on range line from C.S. Base Line		2	B		179 40		
		3	W		180 35		
		4	B		180 10		
		5	W		180 10		
		6	R	1037	179 35		
		7	B		179 30		
		8	W		180 30		
		9	B		180 35		
		10	W		179 30		
		11	R	1045	179 55		
		12	B		179 25		
		13	W		179 35		
		14	B		180 20		
		15	W		179 45	End.	



Range
664+00 (N)

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

Notes Red ____ Plotted H.U.M.H. Job No. 8426 Division No. ____
Date ____ Date 1947 Survey of Beach Erosion
Notes Chkd. ____ Checked ____ Survey by Fleinert Notes QWK Date 12-19-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. WIMMONS Date ____

F.B. 1289 PG. 229

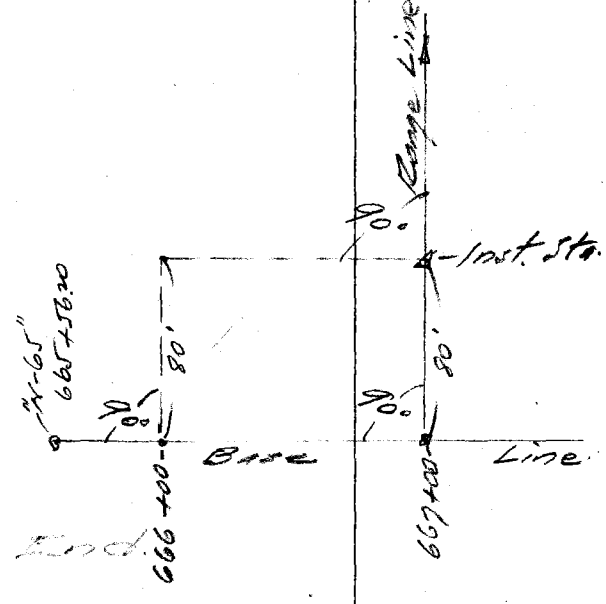
FORM 307 5M 1-46

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	
667+00 (N)	666+00 (N)	1	C	11 02	[illegible]	Range Line ∠ = 90° at inst. Sta.	
80' out on range line	80' out from base line	2	B		89 50		
		3	W		89 40		
		4	B		89 [illegible]		
		5	W		89 25		
		6	R	11 [illegible]	89 [illegible]		
		7	B		89 [illegible]		
		8	W		[illegible]		
		9	B		90 25		
		10	W		90 [illegible]		
		11	R	11 19	89 [illegible]		
		12	B		90 [illegible]		
		13	W		90 [illegible]		
		14	B		90 [illegible]	End.	



Range 667+00 (N)

F.B. 1289 PG. 230

Job No. 8412 Division No. Notes Red Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1944 No. X-Sec.

Survey by Hewick Notes Sept 12-19 '44 Notes Chkd Checked

Indexed ALBERT S. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
6544	PT.	1	R	10:21	200-35	Range 664+00	
65	on	2	B		207-30		
75' northerly on range line from transit control line	Range	3	W		212-30		
	Line	4	B		214-40		
	prod'd	5	W		218-10		
	Back	6	R	10:37	220-40		
		7	B		222-50		
		8	W		227-35		
		9	B		230-25		
		10	W		233-35		
		11	R	10:45	236-45		
		12	B		238-20		
		13	W		243-50		
		14	B		249-05		
		15	W		252-20		

See pg. 223

Cut in. 664+00 (N)

Profile Notes Red ____ Plotted H. U. M. H. Job No. 8412 Division No. ____ F.B. 1289 PG. 251
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd ____ Checked ____ Survey by Klemeck Notes CWW. Date 12-19-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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	
654+	TH	1	R	11:01	208-55	Range 667+00	
65	ON	2	B		211-30		
See	Range	3	W		2[illegible]		
pre-	Line	4	B		218-25		
ceding	Sighted	5	W		220-50		
page	Back	6	R	11:12	225-15		
		7	B		227-10		
		8	W		230-10		
		9	B		233-40		
		10	W		236-00		
		11	R	11:19	239-10		
		12	B		242-00		
		13	W		247-55		
		14	B		250-40		

Cut in 667+00 (N)

F.B. 1289 PG. 232

Job No. 8412 Division No. ____ Notes Red. ____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____

Survey by Hancock Notes CWW. 12-19-'46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	10:24	27.5-29.0	28.0	2.7	25.3	Range 664+00 (N)
2	B		26.1-28.6	26.9	2.6	24.3	Going In.
3	W		24.8-27.0	25.5	2.5	23.0	
4	B		23.2-25.5	24.0	2.4	21.6	
5	W		21.8-23.3	22.3	2.3	20.0	
6	R	10:38	20.5-23.0	21.3	2.2	19.1	
7	B		19.0-21.0	19.7		17.5	
8	W		17.3-18.8	17.8		15.6	
9	B		15.0-17.0	15.7		13.5	Rock.
10	W		13.3-15.4	14.0		11.8	"
11	R	10:45	11.5-14.0	12.3	2.1	10.2	
12	B		[illegible]	10.6		8.5	
13	W		8.5-10.6	9.2		7.1	
14	B		6.5-[illegible]	7.0		4.9	
15	W		5.0-6.4	5.5		3.4	End of Line.

Boat. 664+00 (N)

Profile No. ____ Notes Red. LE Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 233
Date 2-3-47 Date 1947 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Kleinecke Notes D.S. Date 12-19-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	[illegible]	[illegible]	27.3	1.8	25.5	Range 667+00 (N)
2	B		[illegible]	26.1		24.3	Going in.
3	W		[illegible]	24.9		23.1	
4	B		[illegible]	23.5	1.7	21.8	
5	W		[illegible]	22.4		20.7	
6	R	[illegible]	[illegible]	21.1	1.6	19.5	
7	B		[illegible]	19.6		18.0	
8	W		[illegible]	18.4		16.8	
9	R		[illegible]	17.1		15.5	
10	W		[illegible]	15.7		14.1	
11	R	[illegible]	[illegible]	14.2	1.5	12.7	[illegible]
12	B		[illegible]	11.8		10.3	[illegible]
13	W		[illegible]	9.8		8.3	
14	B		[illegible]	7.7		6.2	[illegible]

Boat 667+00 (N)

F.B. 1289 PG. 234

Job No. 8412 Division No. Notes Red [illegible] Plotted H. U. M. H. Profile

Survey of Beach Erosion Date 2-3-47 Date 1947 No. X-Sec.

Survey by Kleineck Notes D.S. 12-19-46 Notes Chkd. Checked

Indexed ALBERT S. TIMMONS Date Date No.

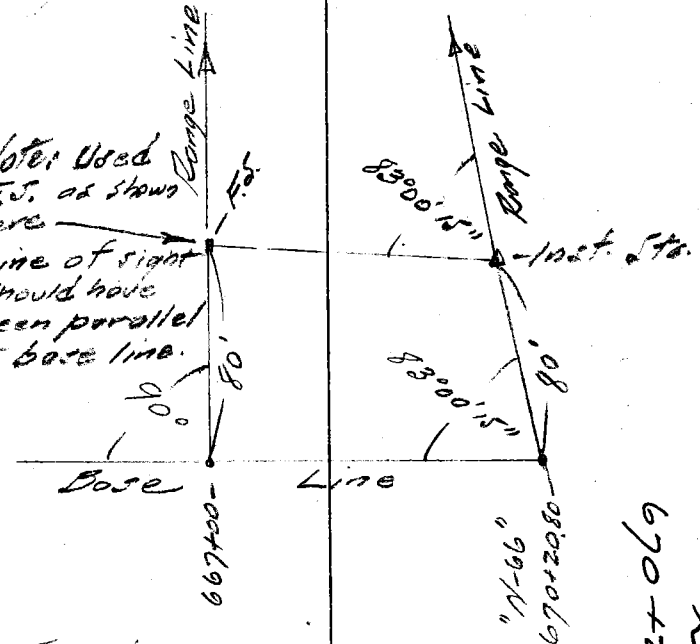
FORM 307 5M 1-46

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
670	607	1	R	1142	8300	Range Line = 83°00'15" at inst. Sta.
+20.80	+00	2	B		8330	
	(N)	3	W		8255	
80' out	80' out	4	B		8315	
on	on	5	W		8300	
range	range	6	R	1156	8320	
line	line	7	B		8255	
		8	W		8245	
		9	B		8310	
		10	W		8255	
		11	R	1202	8255	
		12	B		8230	
		13	W		8235	
		14	B		8300	
		15	W		8335	
		16	R	1212	8220	End.



Range
670+20.80 (N)

Profile Notes Red ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
No. ____ Date ____ Date 1947 Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 12-19-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 235

FORM 307 5M 1-46

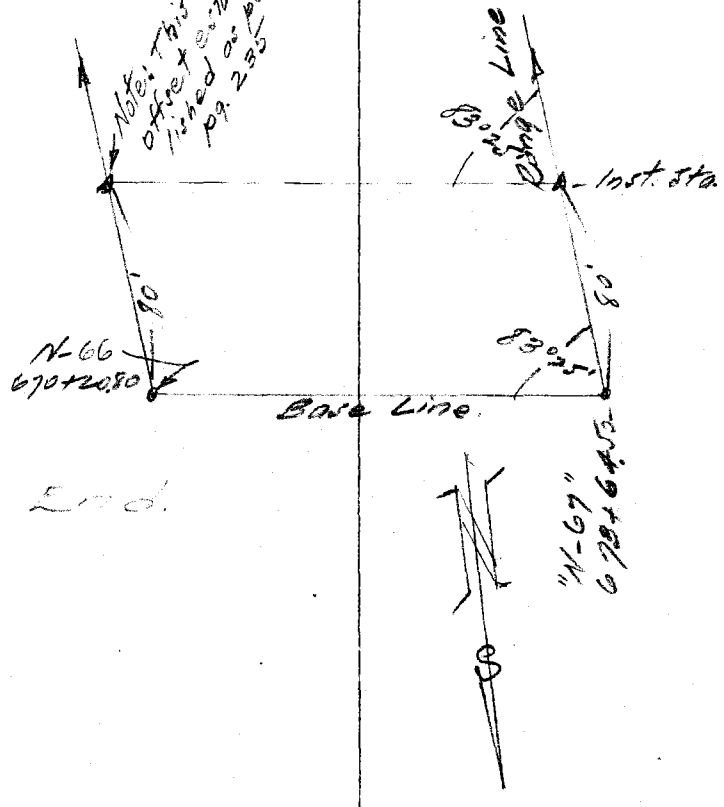
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
673 +64.50 N	670+ 20.80 (N)	1	R	1229	83 25	Range Line ∠ = 83°25' at inst. sta.
out on range line 80'	80' out on range line	2	B		83 25	
		3	W		83 20	
		4	B		83 20	
		5	W		83 25	
		6	R	1244	83 20	
		7	B		83 20	
		8	W		83 25	
		9	B		83 25	
		10	W		83 25	
		11	R	1253	83 45	
		12	B		83 25	
		13	W		83 25	End.

Range 673+64.50 (N)



F.B. 1289 PG. 236

Job No. 8417 Division No. ____ Notes Red ____ Plotted H. U. M. H. Profile

Survey of Beach Erosion Date ____ Date 1947 No. ____ X-Sec.

Survey by Meineck Notes GWK 12-19-46 Notes Chkd. ____ Checked ____

Indexed ALBERT S. TIMMONS 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
664+00	Pt.	1	R	11:41	185-20	Range 670+20.80	
25'	on	2	B		188-45		
out	Range	3	W		190-50		
on	wire	4	B		192-30		
range	Sighted	5	W		194-30		
line	back	6	R	11:55	197-10		
from		7	B		199-40		
C.S.		8	W		202-25		
base		9	B		205-00		
line		10	W		206-10		
		11	R	12:02	207-20		
		12	B		212-00		
		13	W		215-20		
		14	B		218-55		
		15	W		226-50		
		16	R	12:11	229-10		

See pg. 229

Cut in
670+20.80 (N)

Profile
No. ____ Notes Red ____ Plotted H.U.M.H. Job No. 842 Division No. ____
X-Sec. Date ____ Date ____ 1947 Survey of Beach Erosion
No. ____ Notes Chkd ____ Checked ____ Survey by Meneck Notes CWW Date 12-19-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 297

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
664+00	Pt ON Range	1	R	12:29	183-10	Range 673+64.50
See preceding page		2	B		186-25	
		3	W		19[illegible]	
		4	B		19[illegible]-30	
		5	W		19[illegible]-40	
		6	R	12:44	202-55	
		7	B		207-00	
		8	W		209-55	
		9	B		213-[illegible]	
		10	W		21[illegible]	
			R	12:53	219-25	
		12	B		222-50	
		13	W		225-30	
		~~14~~	~~B~~		~~232-25~~	

Cut in. 673+64.50 (N)

F.B. 1289 PG. 238

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Meneck Notes CWW 12-19-46 Notes Chkd Checked

Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	11:41	26.6-27.6	26.9	1.2	25.7	Range 670+20.80 (N)
2	B		25.4-26.6	25.8		24.6	Going in.
3	W		24.4-25.3	24.7		23.5	
4	B		23.2-24.1	23.5	1.1	22.4	
5	W		22-23.1	22.4		21.3	
6	R	11:56	20.7-21.5	21.0	1.0	20.0	
7	B		19.1-20.2	19.5		18.5	
8	W		17.[illegible]-18.8	18.1		17.1	
9	B		16.5-17.3	16.8		15.8	
10	W		15.1-16.2	15.5		14.5	
11	R	12:02	14.0-15.1	14.4	1.0	13.4	
12	B		13.0-14.1	13.4		12.4	Rock.
13	W		10.8-11.2	11.1		10.1	"
14	B		8.9-10.0	9.3		8.3	"
15	W		7.3-8.4	7.7		6.7	"
16	R	12:12	5.1-6.1	5.4	0.9	4.5	" End of [illegible]

Boat 670+20.80 (N)

Profile No. ____ Notes Red. [illegible] Plotted H.U.M.H. Job No. 8412 Division No. ____ F.B. 1289 PG. 239
X-Sec. No. ____ Date 2-3-47 Date 1947 Survey of Peach Erosion
Notes Chkd. ____ Checked ____ Survey by Fleming Notes L.S. Date 12-19-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	K	12:27	25.6-27.5	26.2	0.7	25.5	[illegible]
2	W		[illegible]	24.6		23.9	[illegible]
3	W		[illegible]	23.2		22.5	
4	B		21.3-23.0	21.9		21.2	
[illegible]	[illegible]		19.8-21.1	20.2		19.5	
6	K	12:42	18.5-19.8	18.9	0.6	18.3	
[illegible]	B		16.9-18.4	17.4		16.8	
[illegible]	[illegible]		15.5-16.8	15.9		15.3	
[illegible]	[illegible]		14.0-15.6	14.5		13.9	
[illegible]	[illegible]		12.8-14.0	13.2		12.6	
[illegible]	[illegible]	12:52	11.5-13.0	12.0	0.5	11.5	
[illegible]	[illegible]		9.4-11.0	9.9		9.4	
13	[illegible]		8.0-9.5	8.5		8.0	End of Line

Boat.
673+64.50(N)

F.B. 1289 PG. 240

Job No. 842 Division No. Notes Red HE Plotted H U M H Profile

Survey of Beach Division Date 2-3-47 Date 1947 No.

Survey by Kleinert Notes D.S. 12-19-46 Notes Chkd Checked X-Sec.

Indexed ALBERT E. TIMMONS Date Date No.

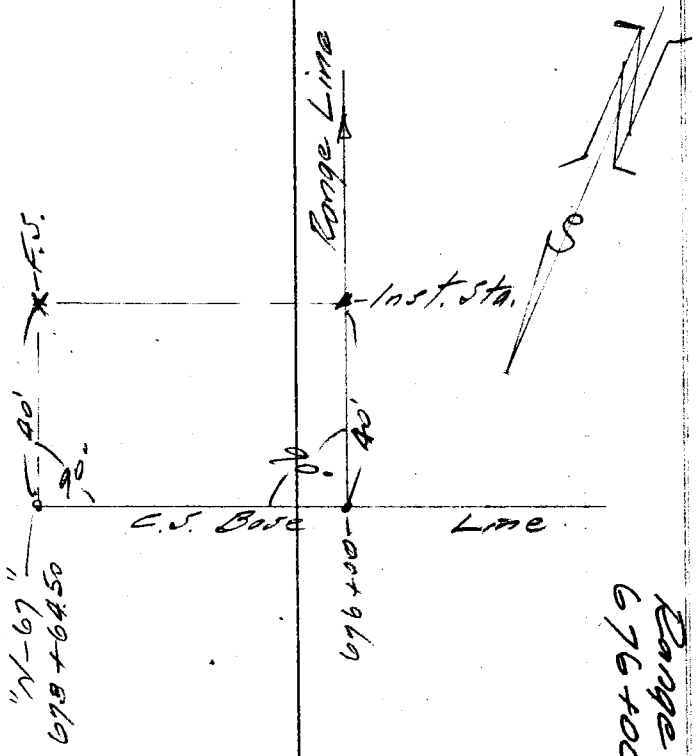
FORM 307 5M 1-46

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	On	#	Color	Time	Hor. Ang.	Remarks
676 +00 (W)	673 + 64.50	1	R	8 19	89 55	Range Line ∡ = 90° at inst. Sta.
		2	B		90 20	
		3	W		91 00	
40', S. Ely of C.S. base line on Range line	Ditto	4	B		90 25	
		5	W		90 25	
		6	R	8 32	90 00	
		7	B		90 15	
		8	W		90 50	
		9	B		89 40	
		10	W		89 40	
		11	R	8 39	90 20	
		12	B		90 45	
		13	W		90 10	
		14	B		89 50	
		15	W		88 50	
		16	R	8 45	89 10	End.



Range 676+00 (W)

Profile
Notes Red. ____ Plotted H.U.M.H. Job No. 8412 Division No. ____
No. ____ Date ____ Date 1947 Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Kleinack Notes 8 Wk. Date 12-20-46
No. ____ Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1284 Pg. 241

FORM 307 5M 1-46

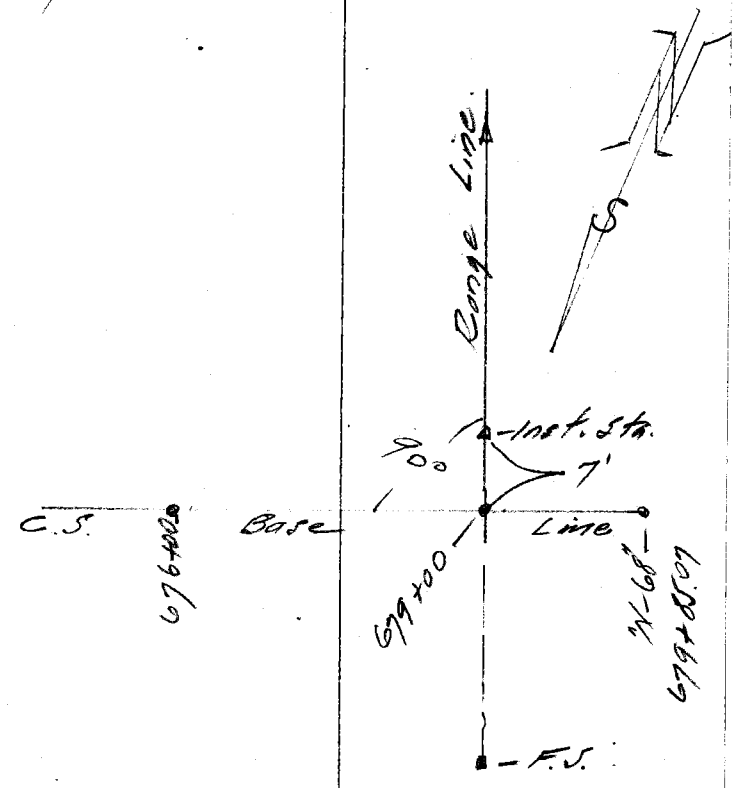
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
679 +00 (N)	Pt. on range line	1	R	828	179 55	Range Line ∡ = 180° at inst. Sta.
		2	B		180 25	
7', S. Ely out on range line from C.S. base line.	prod'd back-ward	3	W		181 10	
		4	B		180 30	
		5	W		179 55	
		6	R	844	180 50	
		7	B		179 40	
		8	W		179 55	
		9	B		180 15	
		10	W		180 00	
		11	R	852	179 30	
		12	B		180 00	
		13	W		179 00	
		14	B		180 00	
		15	W		180 00	
		16	R	858	178 40	

Range 679+00 (N)



F.B. 1289 PG. 242

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No.

Survey by Hemmock Notes GWK 12-23-46 Notes Chkd. Checked X-Sec.

Indexed ALBERT E. TIMMONS 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	
670+	667+	1	R	8:18	82-50	Range Line 676+00(N)	
20.85	00	2	B		85-40		
80'		3	W		89-25		
out		4	B		91-20		
on		5	W		96-10		
range		6	R	8:31	98-40		
line		7	B		102-00		
from		8	W		107-25		
c.s.		9	B		109-00		
base		10	W		112-30		
line		11	R	8:38	119-20		
		12	B		129-10		
		13	W		137-30		
		14	B		141-45		
		15	W		144-50		
		16	R	8:44	149-30		

See pg. 235

Cut in 676+00(N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Date 1947 Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Date ____ Survey of Beach Erosion Survey by Klemeen Notes Cuun Date 12-20-46 Map No. ____ Indexed LEFT & TIMMONS Date ____

F.B. 1289 PG. 248

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
670+	667+	1	R	8:28	93-50	Range 679+00
80:20	00	2	B		97-40	
80' out on range line	80' out on range line	3	W		102-40	
		4	B		106-20	
		5	W		108-30	
		6	R	8:44	115-30	
		7	B		118-30	
		8	W		122-35	
		9	B		125-25	
		10	W		130-50	
		11	R	8:52	135-15	
		12	B		137-50	
		13	W		145-00	
		14	B		149-35	
		15	W		151-40	
		16	R	8:57	155-35	

Cut in 679+00 (N)

See pg. 235

F.B. 1289 PG. 244

Job No. 842 Division No. ____ Notes Red. ____ Plotted H.U.M.H. Profile

Survey of Beach Erosion Date ____ Date 1347 No. ____

Survey by Fleischer Notes CWW. 12-23-46 Notes Chkd. ____ Checked ____ X-Sec.

Indexed ALBERT E. TIMMONS 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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	8:19	29.3-31.3	30.0	5.6	24.4	Range 676+00 (N)
2	B		28.0-30.0	28.7		23.1	Going in.
3	W		26.5-28.0	27.0		21.4	
4	B		25.1-27.0	25.7	5.5	20.2	
5	W		23.5-25.0	24.0		18.5	
6	R	8:32	21.9-24.0	22.6	5.4	17.2	
7	B		20.3-22.0	20.9		15.5	
8	W		18.5-20.0	19.0		13.6	
9	B		16.6-19.0	17.4		12.0	
10	W		14.9-16.8	15.5		10.1	
11	R	8:39	13.2-14.7	13.7	5.3	8.4	
12	B		11.2-13.0	11.8		6.5	
13	W		9.7-11.3	10.2		4.9	
14	B		8.5-10.3	9.1		3.8	
15	W		7.0-8.2	7.4		2.1	
16	R	8:45	5.7-7.0	6.1	5.2	0.9	End of Line.

Boat.
676+00 (N)

Profile
No. ____ Notes Red. [illegible] Plotted H.U.M.H. Job No. SA12 Division No. ____
X-Sec. Date 2-3-47 Date 1947 Survey of Beach Erosion
No. ____ Notes Chkd. ____ Checked ____ Survey by Alemeda Notes DS Date 12-20-46
Date ____ Date ____ Map No. ____ Indexed ALBERT E. TIMMONS Date ____

F.B. 1289 PG. 245

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.

F.B. 2 PG. 246 | Job No. 2412 | Division No. | Notes Red. H | Plotted H.U.M.H. | Profile
Survey of [illegible] | Notes [illegible] | Date 2-3-47 | Date 1947 | No. | X-Sec.
Survey by [illegible] | Notes [illegible] | Notes Chkd. | Checked | No.
Indexed ALBERT E. TIMMONS | Date | Date | Date

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	8:30	30.6-31.8	31.0	6.2	24.7	Range 677+00 (N)
2	B		29.1-30.5	29.6		23.3	Going in
3	W		27.5-28.8	27.9		21.6	
4	B		26.0-27.0	26.3		20.0	
5	W		24.4-25.7	24.8		18.5	
6	R	8:45	22.6-24.0	23.1	6.2	16.9	
7	B		21.1-22.2	21.5		15.3	
8	W		19.0-20.4	19.5		13.3	
9	B		17.0-18.5	17.5		11.3	
10	W		15.0-16.6	15.5		9.3	
11	R	9:55	13.4-14.5	13.8	6.2	7.6	
12	B		11.3-12.4	11.7		5.5	
13	W		9.9-10.8	10.3		4.1	
14	B		8.1-9.2	8.5		2.3	
15	W		5.0-5.5	5.5		+0.7	Rock
16	R	8:59	5.5-7.0	6.0	6.1	+0.1	" End of Line.

Boat. 679+00 (N)

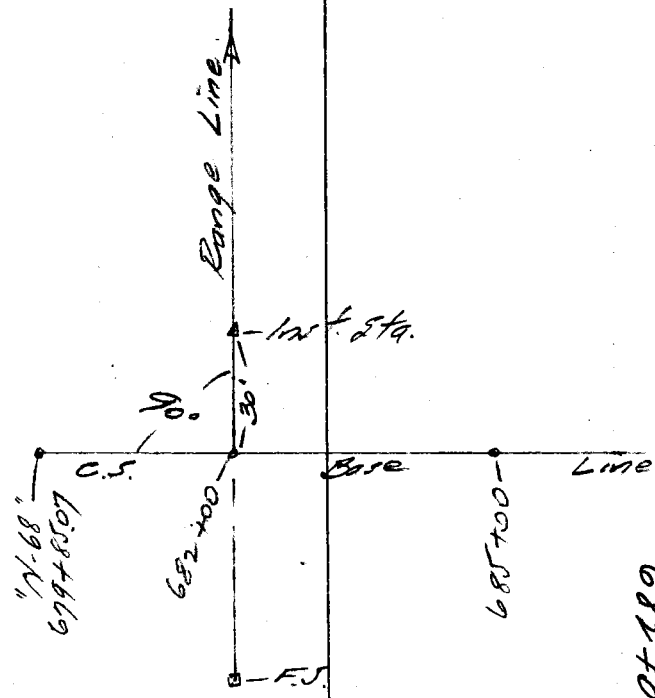
FORM 307 5M 1-46

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		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
682+00 (N) 30' out on range line from C.S. base line	Pt. on range line prod'd backward	1	R	919	18000	Range Line ∡ = 180° at inst. Sta.
		2	B		18025	
		3	W		17950	
		4	B		18030	
		5	W		18015	
		6	R	933	18000	
		7	B		17950	
		8	W		18020	
		9	B		17945	
		10	W		17920	
		11	R	945	18025	
		12	B		18000	
		13	W		18030	
		14	B		17920	
		15	W		18000	



Range 682+00 (N)

Profile No. ____ Date ____ Notes Red ____ Plotted U.M.H. Job No. 842 Division No. ____ F.B. 1289 Pg. 247

X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Date 1947 Survey of Beach Erosion

Survey by Meinecke Notes GWK Date 12-23-46

Map No. ____ Indexed ALBERT E. TIMMONS Date ____

FORM 307 5M 1-46

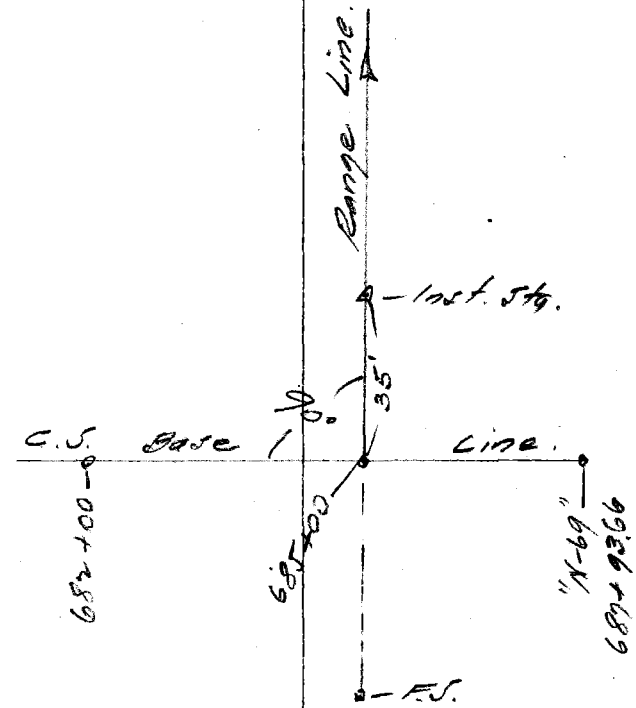
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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
685+00 (N)	Pt. on range line prod'd backward	1	R	1005	18[illegible]	Range Line ∡ = 180° at inst. Sta.
35' out on range line from C.S. base line		2	B		18040	
		3	W		18000	
		4	B		17950	
		5	W		18100	
		6	R	1017	17920	
		7	B		18020	
		8	W		17940	
		9	B		18105	
		10	W		18045	
		11	R	1028	18150	
		12	B		18000	
		13	W		18000	
		14	B		18000	

Range 685+00 (N)



F.B. 1289 Pg. 248

Job No. 8412 Division No. Notes Red. Plotted H.U.M.H. Profile

Survey of Beach Erosion Date Date 1947 No. X-Sec.

Survey by Kleineck Notes SWK 12-23-46 Notes Chkd. Checked No.

Indexed ALBERT E. TIMMONS Date 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	
670+	667+	1	R	9:18	96-10	Range 682+00	
80:20	00	2	B		100-35		
80'	80'	3	W		105-00		
out	out	4	B		111-55		
on	on	5	W		116-15		
Range	Range	6	R	9:32	120-30		
Line	Line	7	B		124-30		
		8	W		128-40		
		9	B		132-50		
		10	W		133-50		
		11	R	9:44	141-10		
		12	B		145-30		
		13	W		147-15		
		14	B		149-50		
		15	W		151-50		

See pg. 235

Cut in 682+00 (N)

Profile
No. ____ Date ____ Notes Red ____ Plotted H.U.M.H. Job No. 8417 Division No. ____
X-Sec. Date ____ Date 1947 Survey of Beach Erosion
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by Kleinock Notes Cwu Date 12-23-46
Map No. ____ Indexed ALBERT S. TIMMONS Date ____

F.B. 1289 PG. 249

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
6704	667+00	1	R	10:05	108-00	Range 685+00
80-20		2	B		113-20	
80'	80'	3	W		119-00	
out	out	4	B		122-15	
on	on	5	W		126-45	
Range	Range	6	R	10:16	130-20	
Line	Line	7	B		133-05	
		8	W		136-15	
		9	B		140-10	
		10	W		143-25	
		11	R	10:27	145-20	
		12	B		147-45	
		13	W		148-40	
		14	B		150-30	

Cut in 685+00 (N) See pg. 285

Profile
Job No. 8412 Division No. Notes Red. Plotted H.U.M.H.
Survey of Beach Erosion Date Date 1947 No.
Survey by Stewart Notes CWW 12-23-46 Notes Chkd. Checked X-Sec.
Indexed Date Date No.

B/289 PG. 250

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.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R	9:20	30.2-33.[illegible]	31.1	5.9	25.2	Range 682+00 (N)
2	A		28.8-30.1	29.2		23.3	Going in.
3	W		27.1-28.7	27.7		21.8	
4	B		25.5-26.6	25.9		20.0	
5	W		24.0-25.7	24.6		18.7	
6	R	9:34	22.5-24.0	23.0	5.8	17.2	
7	B		20.8-22.0	21.2		15.4	
8	W		18.5-20.2	19.1		13.3	
9	B		16.7-18.0	17.1		11.3	
10	W		14.2-16.0	14.8		9.0	Rock.
11	R	9:46	12.2-14.0	12.8	6.2	6.6	
12	B		10.5-12.0	11.0		4.8	
13	W		9.0-10.5	9.5		3.3	
14	B		7.1-8.5	7.6		1.4	
15	W		5.5-8.0	6.3		0.1	End of line.

Boat.
682+00 (N)

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

Notes Red IE Plotted H.U.M.H. Job No. 8412 Division No. ____ Date 2-3-47 Date 1947 Survey of Beach Erosion Notes Chkd. ____ Checked ____ Survey by Elsmeck Notes D. S. Date 12-23-46 Date ____ Date ____ Map No. ____ Indexed ALBERT E. HAMONS Date ____

F.B. 1289 PG. 257

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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R	10:06	29.1-30.8	29.7	5.4	24.3	[illegible]
2	B		27.5-29.0	28.0		22.6	[illegible]
3	W		26.0-27.8	26.6	5.3	21.3	
4	B		24.6-26.0	25.1		19.8	
5	W		23.0-24.5	23.5		18.2	
6	R	10:18	20.8-22.1	21.2	5.2	16.0	
7	B		19.0-20.7	19.6		14.4	
8	W		17.0-18.2	17.4	5.1	12.3	
9			15.0-17.0	15.7		10.6	
10	W		13.5-15.0	14.0		8.9	
11		10:29	12.0-13.6	12.5	5.0	7.5	
12	W		9.5-11.0	10.0		5.0	
13	R		7.5-9.0	8.0		3.0	
14	B		4.5-6.0	5.0		0.0	Rock - End of line.

Boat 685+00(N)

F.B. 289 Pg. 252

Job No. 2412 Division No. Notes Red. HE Plotted H.U.M.H. Profile

Survey of Beach Erosion Date 2-3-47 Date 1947 No.

Survey by Kleinock Notes D.S. 12-23-47 Notes Chkd. Checked X-Sec.

Indexed ALBERT E. TIMMONS Date Date No.

F.B. 1289 PG. 1

Profile No. _____ Notes Red H. U. M. H. Date _____ Plotted H. U. M. H. Date _____ Job No. 8412 Division No. _____ Survey of Beach Erosion

X-Sec. No. _____ Notes Chkd. H. U. M. H. Date _____ Checked H. U. M. H. Date _____ Survey by _____ Notes _____ Date _____ Map No. _____ Indexed _____ Date _____

Little Sheet
to be made out

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

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

Do not extend notes this side of this line.

FORM 307 5M 1-46

Job No. Division No. Notes Red. Plotted

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked

Indexed Date Date Date

STATION

B.S.

H.

F.S.

ELEV.

FORM 307 BM 1-4