Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed J. C. Johnson 11-25-53

F. B. 1505 PG. 5

BOOK 7

BEACH EROSION STUDIES

~SOUNDINGS~

JN 8412

OCTOBER 1953 NOVEMBER

FROM STATION 268+00 N to STATION 342+00 N
52+50 S
AND STA 346+21.81 = 52+50 S } Santa Monica Base Line
TO STA 351+24.61 = 52+50 S

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

PARTY
Blanchard
Shoemaker
Uharriet
Goodwin
Schonfeldt
Oben
Kuammen
Robbins
McCrath

23930 pages 44 to 58
and 23931 pages 6 to 41

Microfilmed Feb '88

BOOK 6 = FB 1504
BOOK 8 = FB 1506

F. B._____ PG._____

TIDE GAGE

STANDARD TIME NOV 4. 1953

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

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

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

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

F. B. Pg. 7

TIDE GAGE NOV. ~~SEPT~~ 3 1953

STANDARD TIME

600	56
630	58
700	60
730	59
800	58
830	55
900	52
930	47
1000	42
1030	35
1100	27
1130	19
1200	17
1230	12
13:00 ~~1 00~~	0.9

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

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. _____ PG. _____

TIDE GAGE

STANDARD TIME

~~Oct~~ Nov 4 1953

HOUR	TIDE
600	56
630	58
700	60
730	59
800	57
830	55
900	52
930	46
1000	41
1030	34
1100	26
1130	18
1200	130
1230	110
13:00 ~~100~~	

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76F3095 247 4-53

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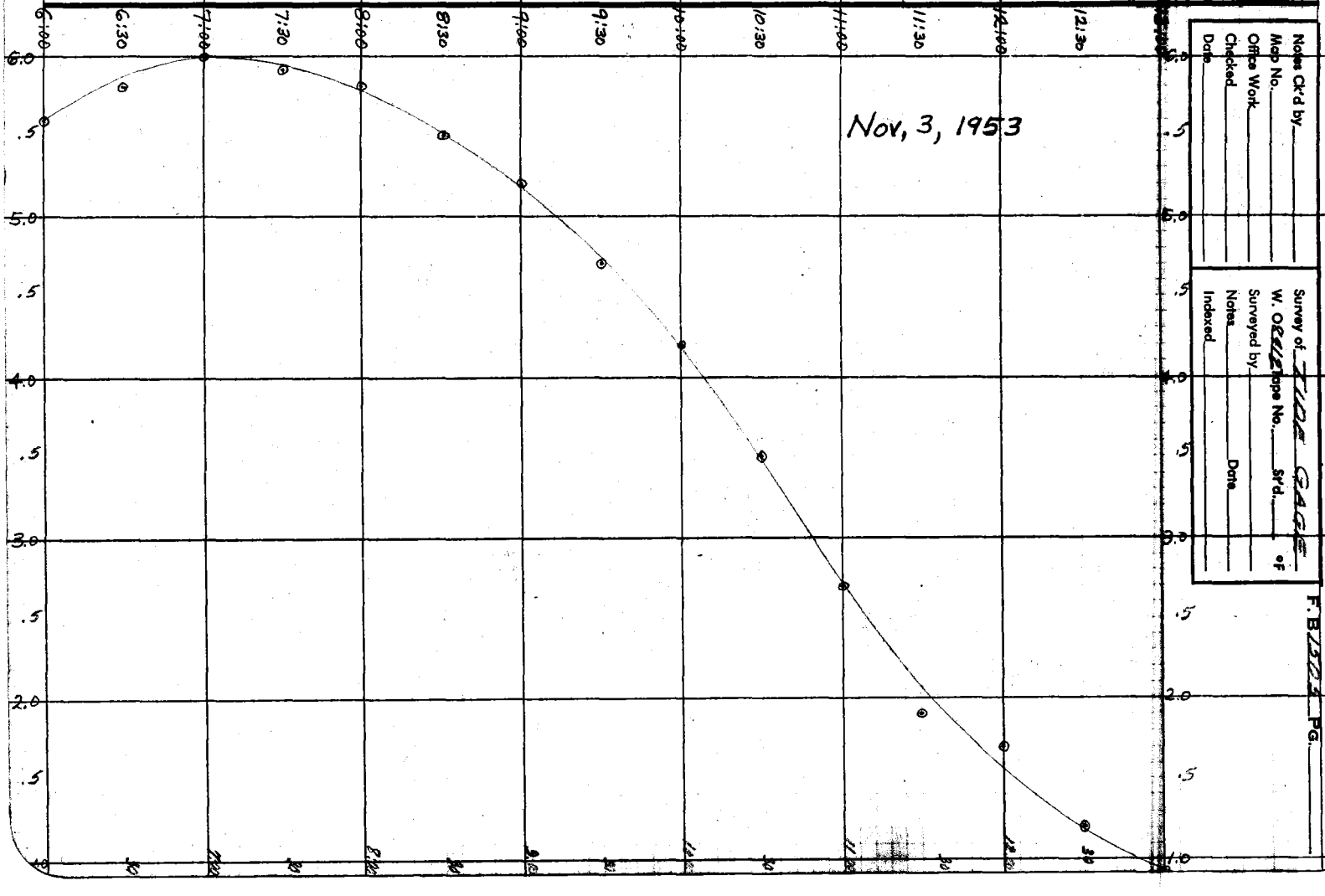

Notes Ck'd by____
Map No.____
Office Work
Checked____
Date____

Survey of TIDE GAGE
W. O. ____ Tape No.____ Std.____ of
Surveyed by____
Notes____ Date____
Indexed____

F. B. 1503 PG.____

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726 LOS ANGELES COUNTY
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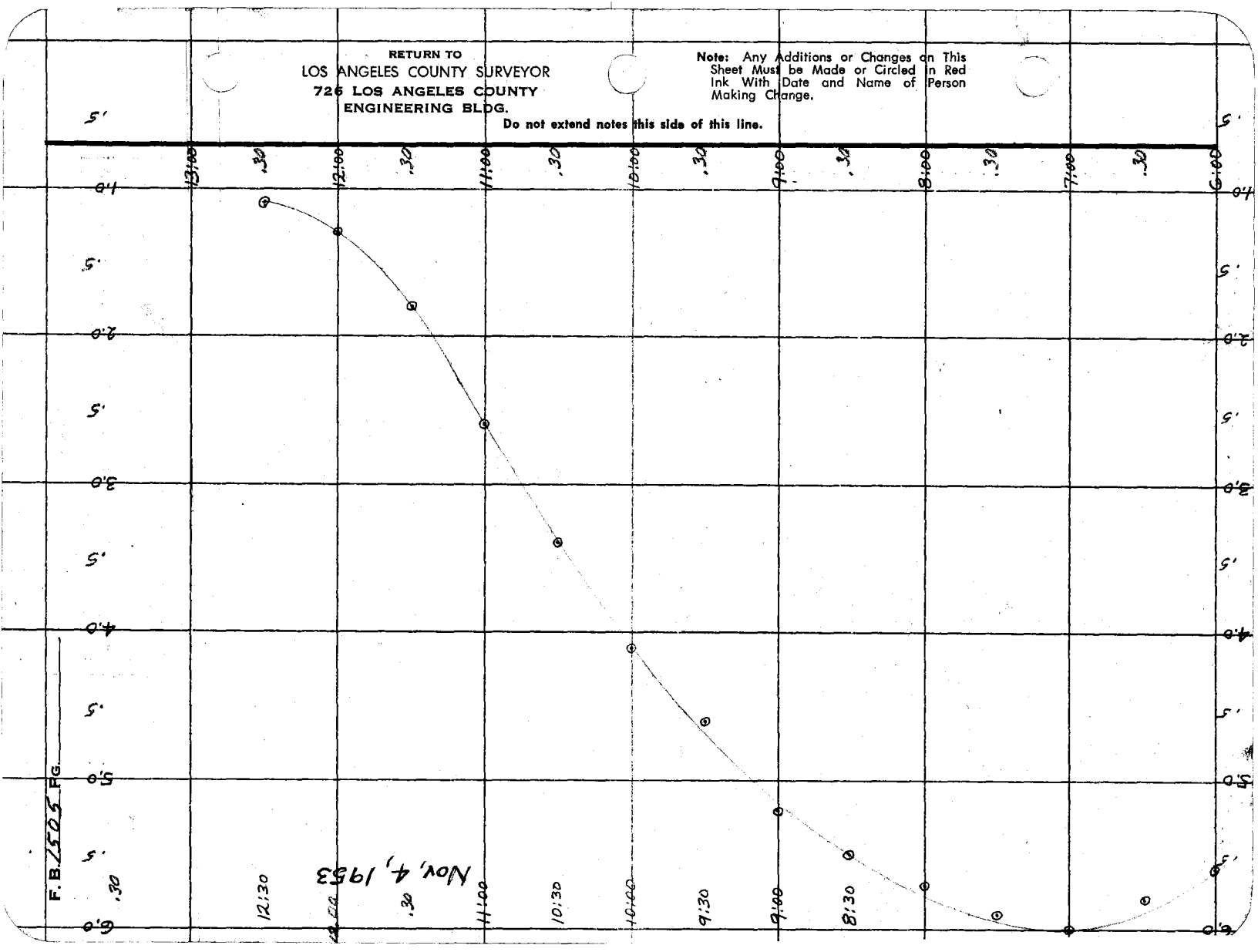

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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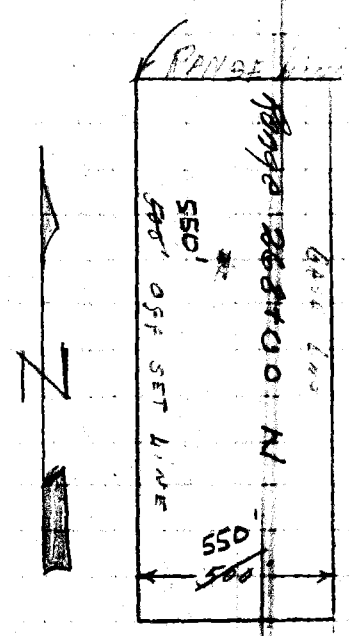
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	268+00N
Inst. Sight At — On	#	Color	Time	Hor. Ang.	Remarks	
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					



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

F. B. Pg. 9

F. B. 1505 PG. 10

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

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

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

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

Range
268+00 N

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
			7:17			

76L298 307 8-53

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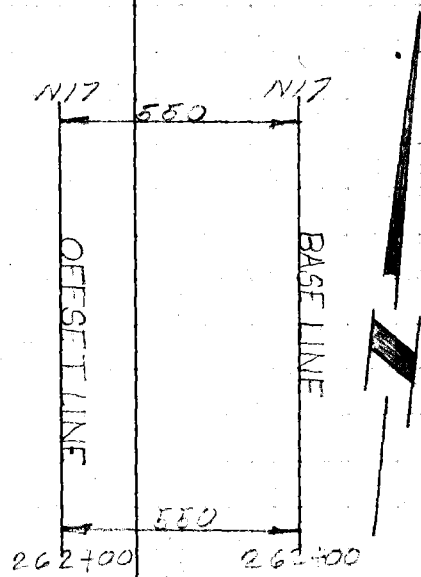
STATION		B. S.	H. I.	F. S.	ELEV.		CUT IN 268+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
262+00	N17	1	B & W	6 53	74° 09		
		2	R		72° 24		
		3	Y		69° 05		
		4	B & W	6 58	62° 30		
		5	R		[illegible]		
		6	Y		55° 32		
		7	B & W	7 00	51° 24		
		8	R		41° 15		
		9	Y		44° [illegible]		
		10	B & W	7 04	42° 46		
		11	R		46° 08	*	
		12	Y		45° 00		
		13	B & W	7 06	42° 41		
		14	R		40° 36		
		15	Y		37° 52		
		16	B & W	7 08	35° 23		
		17	R		33° 14		
		18	Y		32° 04	*	
		19	B & W	7 10	35° 09		
		20	R		33° 17		



Cut in 268+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 12 02 Pg. 11
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by E H B Notes JS Date 11/3/33
No. ____ Date ____ Date ____ Map No. ____ Edited Johnson Date ____

F. B. 1505 Pg. 12 | Job No. 1412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Cut In 268+00

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		[illegible]		
	22	B&W	7 13	32° 51'	*	
	23	R		31° 42'		
	24	Y		29° 54'		
	25	B&W	7 16	29° 25'		
	26	R		26° 56'		
	27	Y		24° 12'	*	
	28	B&W	7 19	30° 28'	*	
	29	R		29° 13'		
	30	Y		27° 04'		
	31	B&W	7 24	28° 24'	*	
	32	R		26° 26'		

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

Do not extend notes this side of this line.

STATION	B.S.	H. I.	F. S.	ELEV.	BOAT 268400-0		
Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1 R&W	6.52	30.0	30.5 ✓	6.0 ✓	24.5 ✓	2483	1933
2 R		30.3	30.4 ✓	6.0	24.4 ✓	2302	1752
3 Y		28.5	28.8 ✓	6.0	22.8 ✓	2016	1466
4 R&W	6.57	26.1	26.7 ✓	6.0	20.7 ✓	1660	1110
5 R		25.0	25.7 ✓	6.0	19.7 ✓	1512	962
6 Y		25.3	25.6 ✓	6.0	19.6 ✓	1390	840
7 R&W	7.00	24.1	24.5 ✓	6.0	18.5 ✓	1272	722
8 R		24.7	24.1 ✓	6.0	18.1 ✓	1199	649
9 Y		23.8	23.3 ✓	6.0	17.3 ✓	1113	563
10 R&W	7.03	22.9	21.9 ✓	6.0	15.9 ✓	1088	538
11 R		23.0	23.7 ✓	6.0	17.7 ✓	1152	602
12 Y		22.9	22.7 ✓	6.0	16.7 ✓	1130	580
13 R&W	7.05	21.6	22.0 ✓	6.0	16.0 ✓	1086	536
14 R		21.3	20.3 ✓	6.0	14.3 ✓	1049	499
15 Y		21.3	20.9 ✓	6.0	14.9 ✓	1001	451
16 R&W	7.07	[illegible]	20.2 ✓	6.0	14.2 ✓	961	411
17 R		22.1	18.1 ✓	6.0	12.1 ✓	931	381
18 Y		[illegible]	20.0 ✓	6.0	14.0 ✓	972	422
19 R&W	7.10	[illegible]	20.0 ✓	6.0 ✓	14.0 ✓	959	409
20 R		23.4	17.6 ✓	6.0	11.6 ✓	932	382

550' offset added

Boat 268400-0

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 1505 Pg. 13

No. ____ Date ____ Date ____ Survey of BEACH EROSION

X-Sec. ____ Notes Chkd. RCWL Checked ____ Survey by FHR Notes VRO Date 10-3-53

No. ____ Date 12-18-53 Date ____ Map No. ____ Noted ____ Date ____

76L 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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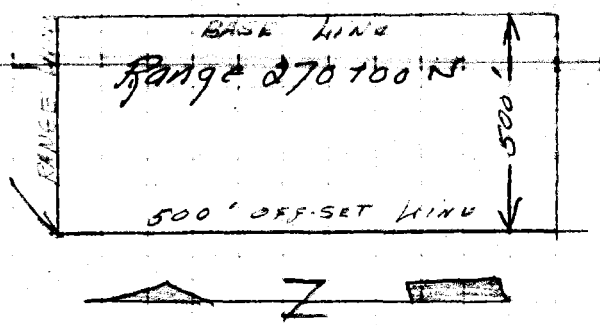
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21 Y		20.0					
22 R	7:	17.3	17.5 ✓	6.0	11.5 ✓	922	372
23 R		17.0	17.4 ✓	6.0 ✓	11.4 ✓	926	376
24 Y		16.3	16.2 ✓	6.0	10.2 ✓	910	360
25	7:16	14.3	14.9 ✓	6.0	8.9 ✓	882	332
26 R		14.2	14.8 ✓	6.0	8.8 ✓	878	328
27 Y		12.9	12.7 ✓	6.0	6.7 ✓	843	293
28	7:19	14.0	14.5 ✓	6.0	8.5 ✓	882	332
29 R		14.8	15.4 ✓	6.0	9.4 ✓	891	341
30 Y		13.7	13.7 ✓	6.0	7.7 ✓	879	329
31	4	13.8	13.8 ✓	6.0	7.8 ✓	853	303
		15.4	12.8 ✓	6.0 ✓	6.8 ✓	863	313
			12.0 ✓	6.0	6.0 ✓	840	290
			12.7 ✓	6.0	6.7 ✓		

Boat 2688 town

F.B. 1505 PG. 14 Job No. 49-32 Division No. Notes Red Plotted Profile No.
Survey of BERCH EROSION STUDY Date Date X-Sec. No.
Survey by Notes Notes Chkd Checked
Indexed L. C. Johnson Date Date 12-18-53 Date

Profile	Notes Red.	Plotted	Job No. [illegible]	Division No.	F. B. [illegible]	Pg. 15
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes F.H.	Date 11/3/63	
No.	Date	Date	Map No.	Indexed A. C. [illegible]	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
INST. AT 270+00 N					
				89°52	
				90°00	
				90°01	
			7:44	90°00	
				90°00	
			7:46	90°00	
				90°00	
			7:49	90°00	
				90°00	
			7:51	90°00	
				90°00	
			7:53	90°00	
				90°00	

Range

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726 Los Angeles County Engineering Bldg.

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76L298 307 8-53

F. B. 1505 Pg. 16 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile

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

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

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

Range 270+00N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76L298 307 8-53

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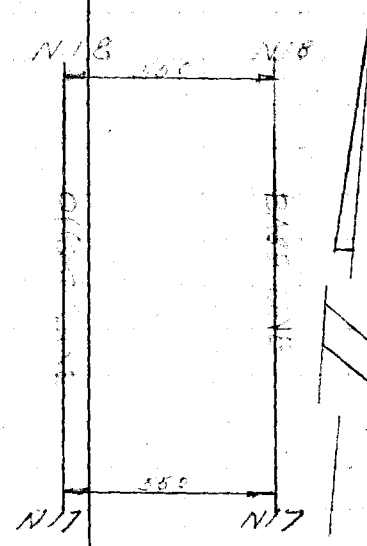
3

Cut in 270+00

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
		1	B+W	7 36	78° 55		
		2	R		71° 05		
		3	Y		63° 21		
		4	B+W	7 40	68° 17		
		* 5	R		61° 07		
		6	Y		58° 01		
		7	B+W	7 42	54° 26		
		8	R		50° 31		
		9	Y		48° 23		
		10	B+W	7 45	46° 03		
		11	R		[illegible]		
		12	Y		46° 02		
		13	B+W	7 47	45° 32	*	
		14	R		44° 35		
		15	Y		43° 07		
		16	B+W	7 49	42° 07		
		17	R		40° 20		
		18	Y		38° 52		
		19	B+W	7 52	34° 28		
		20	R		37° 02		



Cut in 270+00 N

Profile Notes Red. Plotted Job No. 2412 Division No. F. B. Pg. 17
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes Date 11/2/53
No. Date Date Map No. Indexed Johnson Date

F.B. 1505 Pg. 18 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

Cut IN 270+00N

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		39° 33		
	22	Bd W	7 57	33° 21		
	23	R		33° 54		
	24	Y		32° 26		
	25	Bd W	7 56	29° 58		
	26	R		29° 29		
	27	Y		28° 9		
	28	Bd W	7 59	26° 10		
	29	R		25° 58		
	30	Y		24° 51		

78L298 307 10-51

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726 LOS ANGELES COUNTY
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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	270+00-N	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1 BW	7:35	[illegible]	32.2	5.9	26.3	2600	2050
2 Y		[illegible]	30.3	5.9	24.4	2275	1725
3		[illegible]	29.0	5.9	23.1	2039	1489
4 BW	7:37	[illegible]	26.9	5.9	21.0	1724	1174
5 R		[illegible]	26.3	5.9	20.4	1618	1068
6 Y		[illegible]	25.9	5.9	20.0	1496	946
7 BW	7:38	24.9	25.2	5.9	19.3	1377	827
8 R		[illegible]	24.3	5.9	18.4	1267	717
9 Y		[illegible]	24.9	5.9	19.0	1215	665
10 BW	7:44	[illegible]	23.4	5.9	17.5	1165	615
11 R		[illegible]	23.3	5.9	17.4	1136	586
12 Y		[illegible]	21.6	5.9	15.7	1102	552
13 BW	7:46	[illegible]	23.8	5.9	17.9	1193	643
14 R		3.3	24.2	5.9	18.3	1132	582
15 Y		5.2	23.3	5.9	17.4	1103	553
16 BW	7:50	[illegible]	21.2	5.9	15.3	1084	534
17 R		[illegible]	20.4	5.8	14.6	1052	502
18 Y		[illegible]	21.4	5.8	15.6	1026	476
19 BW	7:51	[illegible]	18.6	5.8	12.8	956	406
20 R		19.4	20.0	5.8	14.2	996	446

Boat 270+00 N

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 1505 PG. 19
No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date ____
X-Sec. ____ Notes Chkd ____ Checked ____ Survey by ____ Map No. ____ Indexed ____ Date ____
No. ____ Date 12-11-53 Date ____ Date ____

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
[illegible]	Y		9 [illegible]	18.5 ✓	5.8	12.7 ✓	957	407
[illegible]	[illegible]	7:53	9 [illegible]	17.1 ✓	5.8 ✓	11.3 ✓	939	389
23	R		[illegible]	18.1 ✓	5.8	12.3 ✓	947	397
24	Y		[illegible]	16.1 ✓	5.8	10.3 ✓	926	376
25	[illegible]	7:55	[illegible] ?	14.6 ?	5.8	8.8 ?	891	341
[illegible]	R		[illegible]	12.7 ✓	5.8	6.9 ✓	884	334
27	Y		[illegible]	15.0 ✓	5.8	9.2 ✓	868	318
[illegible]	[illegible]	7:59	[illegible]	11.2 ✓	5.8 ✓	5.4 ✓	838	288
29	R		[illegible]	10.6 ✓	5.8	4.8 ✓	834	284
30	Y		[illegible]	9.8 ✓	5.8	4.0 ✓	824	274

Boat 270100N

F.B. 1505 PG. 20 Job No. 242 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No. X-Sec.
Survey by [illegible] Notes [illegible] Notes Chkd [illegible] Checked
Indexed E. C. Johnson Date Date 12-18-53 Date No.

76L298 307 8-53

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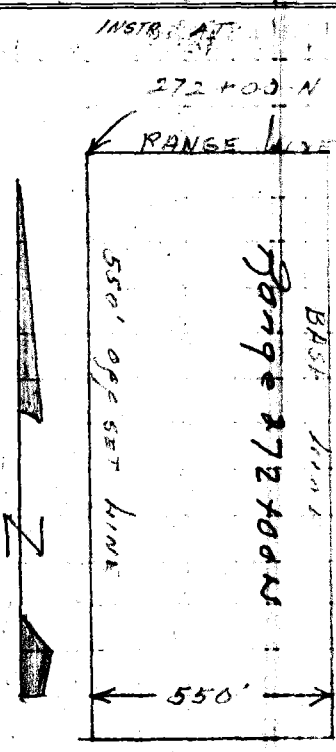
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	



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

F. B. 1565 PG. 22 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Range 272+00 N

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

761.298 307 8-53

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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5

cut in 272+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		1	B+W	8 09	71° 32		
		2	R		69° 17		Note
		3	Y		66° 04		Inst on 33 foot offset
		4	B+W	8 12	62° 33		
		5	R		58° 45		
		6	Y		55° 58		
		7	B+W	8 15	52° 57		
		8	R		50° 49		
		9	Y		48° 44		
		10	B+W	8 17	46° 09		
		11	R		42° 27		
		12	Y		40° 07		
		13	B+W	8 20	41° 26	*	
		14	R		39° 42		
		15	Y		36° 52		
		16	B+W	8 22	34° 21		
		17	R		33° 18		
		18	Y		34° 15		
		19	B+W	8 25	33° 37		
		20	R		31° 19		

Cut In 272+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8407 Division No. ____ F. B. 1505 Pg. 23
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes JS Date 11/14/23
No. ____ Date ____ Date ____ Map No. ____ Date ____ Edited Johnson

76L298 307 8-53

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6

STATION		B. S.	H. I.	F. S.	ELEV.		Cut IN 272+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		33° 32		
266+00	N18	22	B+W	8 27	32° 58		
		23	R		32° 48		
		24	Y		30° 55		
		25	B+W	8 29	29° 56		
		26	R		27° 28		
		27	Y		26° 42		
		28	B+W	8 30	26° 42		
		29	R		27° [illegible]		
		30	Y		26° [illegible]		
		31	B+W	8 32	23° 33		

Cut IN 272+00

F. B. 1505 Pg. 24 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by Blanchard Notes Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

76L298 387 10-51

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Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd. 12-18-53 Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDY
Survey by FHB Notes VRO Date 4-8-53 Map No. ____ Notes ____ Date ____

F.B. 1505 Pg. 25

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	272+00-N	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	7:09	29.0	30.2	5.7	24.5	2346	1786
2		29.1	30.2	5.7	24.5	2136	1586
3		29.7	28.4	5.7	22.7	1902	1352
4	7:11	27.8	26.6	5.7	20.9	1705	1155
5		28.0	26.5	5.7	20.8	1539	989
6		27.6	24.7	5.7	19.0	1439	889
7	7:14	26.0	25.7	5.7	20.0	1346	796
8		29.0	24.4	5.7	18.7	1286	736
9		27.0	24.3	5.7	18.6	1234	684
10	7:17	29.0	24.5	5.6	18.9	1175	625
11		27.2	22.3	5.6	16.7	1099	549
12		27.2	21.0	5.6	15.4	1056	506
13	7:19	27.0	21.8	5.6	16.2	1080	530
14		27.0	20.0	5.6	14.4	1048	498
15		27.1	19.8	5.6	14.2	1000	450
16	7:21	27.3	19.2	5.6	13.6	960	410
17		27.7	16.8	5.6	11.2	944	394
18		27.2	18.6	5.6	13.0	958	408
19	7:24	27.0	17.3	5.6	11.7	949	399
20		27.2	14.7	5.6	9.1	915	365

550' offset added

Boat 272+00 N

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
[illegible]	Y		[illegible]	17.8 ✓	5.6	12.2 ✓	948	398
[illegible]	[illegible]	8:26	[illegible]	16.7 ✓	5.6 ✓	11.1 ✓	939	389
[illegible]			[illegible]	16.3 ✓	5.5	10.8 ✓	937	387
[illegible]	Y		[illegible]	14.8 ✓	5.5	9.3 ✓	909	359
[illegible]	[illegible]	8:28	[illegible]	13.8 ✓	5.5	8.3 ✓	895	345
[illegible]	P		[illegible]	12.3 ✓	5.5	6.8 ✓	862	312
[illegible]	Y		10.9	11.7 ✓	5.5	6.2 ✓	852	302
28	[illegible]	[illegible]	[illegible]	10.7 ?	5.5	5.2 ?	852	302
[illegible]	[illegible]		[illegible]	11.7 ✓	5.5	6.2 ✓	856	306
[illegible]	Y		[illegible]	11.3 ✓	5.5	5.8 ✓	844	294
31	[illegible]	[illegible]	[illegible]	10.3 ✓	5.5 ✓	4.8 ✓	837	287 HEAVY SURF

Boat 272 to 0N

F.B. 1505 PG. 26

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

Survey of BEACH EROSION STUDY Date Date No.

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

Indexed A. C. Johnson Date Date 12-18-53 Date No.

76L298 307 8-53

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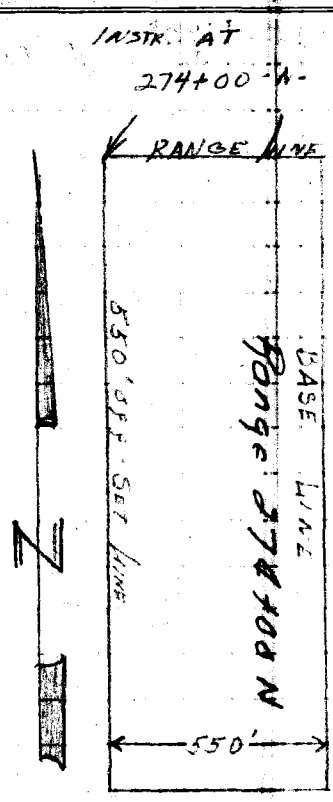
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On #		Color	Time	Hor. Ang.		Remarks
			8:00			
				89°52		
			8:40			
			8:50			
			9:00			
			9:03			
			9:05	90°00		
				90°00		



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F. B. Pg. 27
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd ____ Checked ____ Survey by EHB Notes ER Date 11/3/53
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1505 PG. 28

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

Range 274+00N

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight At. OR	#	Color	Time	Hor. Ang.	Remarks
			9:07	89°34	
			9:09		
			9:11		
			9:12		
			9:15		

76L298 307 8-53

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76L298 307 8-53

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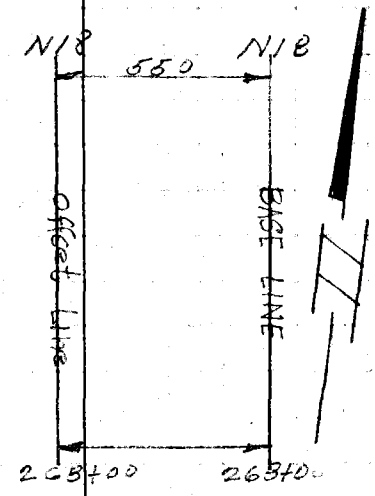
7

Cut in 274+00

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
	1	B & W	8 44	74° 04
	* 2	R		71° 01
	3	Y		65° 32
	4	B & W	8 48	68° 27
	5	R		70° 19 *
	6	Y		65° 58
	7	B & W	8 53	62° 44
	8	R		59° 47
	9	Y		56° 56
	10	B & W	8 56	53° 49
	11	R		50° 45
	12	Y		47° 07
	13	B & W	8 58	42° 46
	14	R		38° 46
	15	Y		40° 42
	16	B & W	9 01	37° 58
	17	R		34° 25
	18	Y		36° 10
	19	B & W	9 04	34° 40
	20	R		32° 51

Remarks



Cut in 274+00 N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by FHB Notes JS Date 11/3/53
No. Date Date Map No. Indexed Date
Johnson

F. B. 1504 Pg. 29

F. B. 1505 PG. 30 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Cut 274+00 N

268+00

N 18

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
	21	Y		32° 17		
	* 22	B & W	9 06	31° 13		
	23	R		30° 42		
	24	Y		29° 10		
	25	B & W	9 08	31° 31		
	26	R		30° 31		
	27	Y		29° 00		
	28	B & W	9 09	29° 53		
	29	R		28° 21		
	30	Y		27° 22		
	31	B & W	9 10	29° 43		
	32	R		29° 38		
	33	Y		26° 38		
	34	B & W	9 13	28° 24		

Return 274+00

76L298 307 8-53

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76L298 307 4-50

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BOAT 274+00-N

STATION #	Color	Time	S. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth			Remarks	
						32.9					
1			Btw	8	43	31.7	32.1 ✓	5.4 ✓	26.7 ✓	2652	2102
						30.7					
2			R			29.7	30.0 ✓	5.4	24.6 ✓	2294	1744
						28.4					
3			Y			26.9	27.4 ✓	5.3	22.1 ✓	2076	1526
						28.7					
4			Btw	8	47	27.0	27.6 ✓	5.3	22.3 ✓	2069	1569
						30.1					
5			R			28.0	28.7 ✓	5.3	23.4 ✓	2227	1677
						27.9					
6			Y			26.9	27.2 ✓	5.3	21.9 ✓	1896	1346
						27.2					
7			Btw	8	52	24.9	25.7 ✓	5.3	20.4 ✓	1714	1164
						25.1					
8			R			23.8	24.2 ✓	5.3	18.9 ✓	1580	1030
						26.1					
9			Y			25.0	25.4 ✓	5.2	20.2 ✓	1472	922
						26.1					
10			Btw	8	55	24.0	24.7 ✓	5.2	19.5 ✓	1370	820
						26.0					
11			R			23.7	24.5 ✓	5.2	19.3 ✓	1284	734
						24.9					
12			Y			22.5	23.1 ✓	5.2	17.9 ✓	1196	646
						23.2					
13			Btw	8	58	21.0	21.7 ✓	5.2	16.5 ✓	1105	555
						20.0					
14			R			19.0	19.3 ✓	5.2	14.1 ✓	1032	482
						22.1					
15			Y			20.0	20.7 ✓	5.2	15.5 ✓	1066	516
						20.2					
16			Btw	9	01	18.4	19.0 ✓	5.2	13.8 ✓	1018	468
						18.6					
17			R			16.5	17.2 ✓	5.2	12.0 ✓	961	411
						19.3					
18			Y			17.0	18.4 ✓	5.2	13.2 ✓	989	439
						18.9					
19			Btw	9	03	17.3	17.8 ✓	5.1 ✓	12.7 ✓	965	415
						19.0					
20			R			15.7	16.5 ✓	5.1	11.4 ✓	937	387

BOAT 274+00 N

Profile Notes Red ____ Plotted ____ Job No. 2413 Division No. ____ F. B. 1585 Page 61

No. ____ Date ____ Survey of BEACH EROSION STUDIES

Sec. ____ Date ____ Survey by E.H.B. Note ____ Date 11/3/53

Notes Chkd. ____ Chkd. ____ Map No. ____ Chkd. J.O.H. Date ____

No. ____ Date 12-15-53 Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		14.8 / 14.1	14.3	5.1	9.2	929	379
22	B+W	9 05	16.0 / 13.0	14.0	5.1	8.9	913	363
23	R		15.4 / 13.0	13.8	5.1	8.7	906	356
24	Y		13.2 / 11.5	12.1	5.1	7.0	885	335
25	B+W	9:08	15.0 / 13.1	13.7	5.1	8.6	918	368
26	R		14.6 / 12.0	12.9	5.1	7.8	904	354
27	Y		13.0 / 11.0	11.7	5.1	6.6	883	333
28	B+W	9:09	13.6 / 12.0	12.5	5.1	7.4	895	345
29	R		13.0 / 10.9	11.6	5.1	6.5	874	324
30	Y		13.2 / 9.2	10.5	5.0	5.5	861	311
31	B+W	9:10	13.0 / 12.0	12.3	5.0	7.3	892	342
32	R		13.1 / 12.0	12.4	5.0	7.4	891	341
33	Y		13.1 / 9.0	10.4	5.0	5.4	851	301
34	B+W	9:13	13.0 / 10.2	11.1	5.0	6.1	874	324

Boat 274+00N

F. B. 1505 Pg. 32

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

Survey of BEACH EROSION STUDIES Date Date No.

Survey by Blanchard Notes Checked X-Sec.

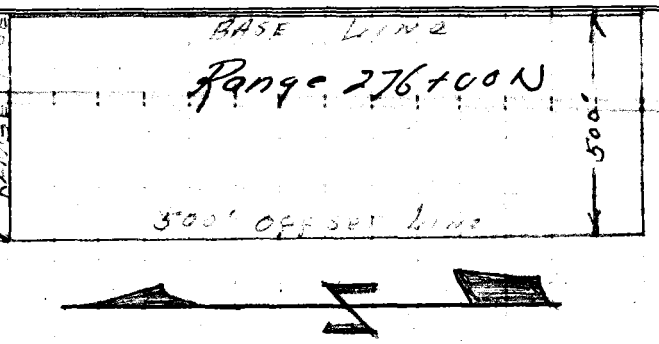
Indexed K. C. Johnson Date Date 12-18-53 Date No.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 24 – Division No. ____ F. B. 1505 Pg. 33

Date ____ Date ____ Survey of Beach Erosion Study

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by FH 13 Notes ER Date 11/3/53

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



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1	[illegible]	9:52	90°00	
	2			90°00	
	3			90°00	
			9:55	90°00	
				90°00	
				90°00	
			9:58	90°00	
				90°00	
				90°00	
			[illegible]	[illegible]	
				90°00	
				90°00	
			10:03	90°00	
				[illegible]	
				90°00	
			10:05	90°00	
				[illegible]	
				90°00	
			10:07	90°00	
				90°00	

N-18 500' OFF-SET

276+00 N

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76L298 307 8-53

F. B. 1505 Pg. 34 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Range 276+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Range	276+00 - N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

9

cut in 276+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
270+00	N18	1	B&W	9 51	74° 55		Note
		2	R		72° 37		Inst on 550 foot offset
		3	Y		70° 41		
		4	B&W	9 54	67° 48		
		5	R		64° 38		
		6	Y		61° 56		
		7	B&W	9 57	59° 19		
		8	R		56° 03		
		9	Y		52° 32		
		10	B&W	9 59	49° 09		
		11	R		46° 02		
		12	Y		43° 43		
		13	B&W	10 02	40° 21		
		14	R		42° 37	*	
		15	Y		41° 57		
		16	B&W	10 04	40° 01		
		17	R		38° 08		
		18	Y		36° 06		
		19	B&W	10 06	36° 07		
		20	R		38° 00		

Cut in 276+00N

Profile Notes Red. ____ Plotted ____ Job No. 242 Division No. ____ F. B. 1505 Pg. 35
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. ____ Checked ____ Survey by F H B Notes JS Date 11/3/53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 1505 PG. 36 | Job No. 8412 Division No. | Notes Red. | Plotted | No. | Profile
Survey of BEACH EROSION STUDIES | Date | Date | X-Sec.
Survey by Blanchard | Notes Chkd. | Checked
Indexed E. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		34° 46		
	22	B&W	10 08	32° 16		
	23	R		33° 31	*	
270+00 / N18	24	Y		34° 16		
	25	B&W	10 11	32° 50		
	26	R		34° 34	*	
	27	Y		31° 14		
	28	B&W	10 13	29° 00		
	29	R		29° 37	*	
	30	Y		30° 51	*	
	31	B&W	10 15	29° 59		
	32	R		30° 12		
	33	Y		32° 5		
Cut IN 276+00 N						

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	276+00	N

#	Color	Time	Near Depth	Bottom	Tide	Adj. Depth	Remarks		
1	Brw	9:50	31.1	32.3	4.4	27.9	2865	2228	4437
2	R		30.0	28.7	4.3	24.4	2353	1916	
3	Y		28.0	28.7	4.3	24.4	2148	1711	
4	Brw	9:54	28.9	27.8	4.3	23.5	1907	1470	
5	R		27.4	26.4	4.3	22.1	1702	1265	
6	Y		25.9	25.2	4.3	20.9	1562	1125	
7	Brw	9:56	24.0	24.1	4.3	19.8	1448	1011	
8	R		25.8	23.9	4.2	19.7	1328	891	
9	Y		23.2	23.2	4.2	19.0	1220	783	
10	Brw	9:59	23.9	22.8	4.2	18.6	1131	694	
11	R		22.9	21.8	4.2	17.6	1059	622	
12	Y		24.0	21.4	4.2	17.2	1011	574	
13	Brw	10:01	22.2	18.4	4.2	14.2	947	510	
14	R		21.0	20.3	4.2	16.1	989	552	
15	Y		20.0	20.0	4.1	15.9	976	539	
16	Brw	10:03	19.0	18.6	4.1	14.5	941	504	
17	R		20.8	18.7	4.1	14.6	908	471	
18	Y		19.1	16.6	4.1	12.5	875	438	
19	Brw	10:06	17.5	17.0	4.1	12.9	875	438	
20	R		19.1	18.6	4.0	14.6	906	469	
21	Y		18.5	16.4	4.0	12.4	851	414	
			17.9						
			16.0						
			18.9						
			16.0						
			19.9						
			18.0						
			17.6						
			15.8						

Boat 276+00 N

Profile Notes Rod_____ Plotted_____ Job No. 5442 Division No. _____
No_____ Date_____ Date_____ Survey of Lake Sta. Dam
Notes Chkd. Chkd. Survey by FHR Plan
No_____ Date_____ Date_____ Map No. _____ Checked Date_____

F. B. 1505 PG. 37

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		276+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
22	B+W	10:08	14.0 12.5	13.0	4.0	9.0	816	379 +437
23	R		17.0 16.0	16.3	4.0	12.3	865	428
24	Y		16.7 14.1	15.0	4.0	11.0	853	416
25	B+W	10:10	15.5 13.8	14.4	4.0	10.4	824	387
26	R		16.6 15.0	15.5	3.9	11.6	856	419
27	Y		13.5 12.4	12.8	3.9	8.9	803	366
28	B+W	10:13	11.0 10.0	10.3	3.9	6.4	774	337
29	R		12.5 9.5	10.5	3.9	6.6	783	346
30	Y		12.7 10.0	10.9	3.9	7.0	784	347
31	B+W	10:14	12.0 9.8	10.5	3.8	6.7	783	346
32	R		13.2 10.0	11.1	3.8	7.3	789	352
33	Y		14.0 11.3	12.2	3.8	8.4	814	377

Boat 276+00 N

F. B. 1505 Pg. 38
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date 12-18-53 Date No.

76L298 307 8-53

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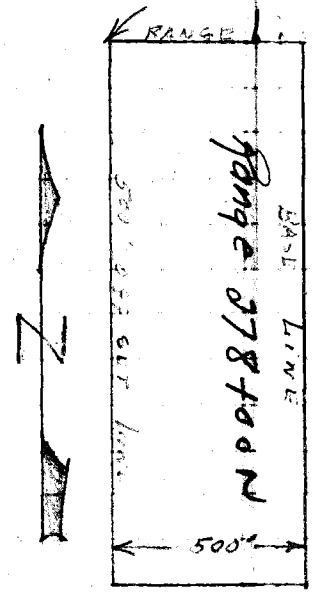
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
			10:39			
				90° 00'		
				90° 00'		
			10:43			
					VOID	
				90° 00'		
			10:46			
				90° 00'		
				90° 00'		
		Red	10:49			
				90° 00'		
				90° 00'		
	13	Red	10:51	90° 00'		
	14			90° 00'		
				90° 00'		
	16		10:53			
				90° 00'		
				90° 00'		
	19		10:55	90° 00'		
	20			90° 00'		

INSTR. AT 278400 N



Profile Notes Red ____ Plotted ____ Job No. 2412 Division No. ____ F. B. 1506 Pg. 39
No. ____ Date ____ Date ____ Survey of Beach Engineering
X-Sec. Notes Chkd ____ Checked ____ Survey by EHB Notes E.R. Date 11/3/53
No. ____ Date ____ Date ____ Map No. ____ Made Johnson Date ____

F. B. 1505 PG. 40 Job No. [illegible] Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

N 00+81 L

Range 278+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
					Range 278+00 N

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

761.298 307 8-53

76L298 307 8-53

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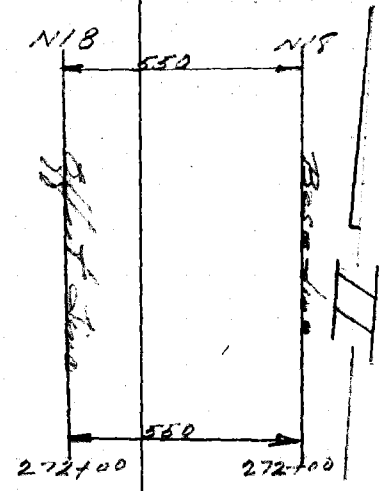
Do not extend notes this side of this line.

11

CUT IN 278+00

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
272+00	N18	1	B&W	10 38	73° 46		
		2	R		70° 54		
		3	Y		68° 43		
		4	B&W	10 42	65° 40		
		5	~~R~~		~~66° 25~~	VOID	
		6	Y		63° 22		
		7	B&W	10 45	60° 45		
		8	R		57° 47		
		9	Y		54° 13		
		10	B&W	10 48	55° 52		
		11	R		53° 45		
		12	Y		51° 16		
		13	B&W	10 50	48° 01		
		14	R		45° 14		
		15	Y		41° 38		
		16	B&W	10 52	42° 54		
		17	R		43° 19		
		18	Y		38° 48		
		19	B&W	10 54	35° 33		
		20	R		35° 55		



Cut In 278+00 N

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. Pg. 41
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Date

F.B. 1505 PG. 42 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Cut IN 278+00 N 272+00

N18

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	~~Hor. Ang.~~		
	21	Y		38° 17		
	22	B&W	10 56	36° 05		
	23	R		33° 19		
	24	Y		34° 32		
	25	B&W	10 57	34° 12		
	26	R		33° 04		
	27	Y		31° 11		
	28	B&W	10 59	30° 00		
	29	R		31° 16		

Cut IN 278+00

76L298 307 8-53

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76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

BOAT 278+00-N

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	B&W	10:38	31.0 29.0	29.7	3.3	26.4	2497 2060 +437
2	R		29.7 27.1	28.0	3.2	24.8	2169 1732
3	Y		28.5 26.1	26.9	3.2	23.7	1977 1540
4	B&W	10:41	27.3 24.2	25.2	3.2	22.0	1764 1327
5	R		28.3 23.2	24.9	3.2	21.7	VOID
6	Y		26.5 24.2	25.0	3.2	21.8	1633 1196
7	B&W	10:44	25.0 22.5	23.3	3.1	20.2	1508 1071
8	R		24.1 23.0	23.4	3.1	20.3	1389 952
9	Y		24.1 21.0	22.0	3.1	18.9	1269 832
10	B&W	10:47	25.3 22.0	23.1	3.0	20.1	1319 882
11	R		23.0 22.0	22.3	3.0	19.3	1255 818
12	Y		23.1 22.0	22.4	3.0	19.4	1185 748
13	B&W	10:49	22.3 20.9	21.4	3.0	18.4	1103 666
14	R		22.2 20.1	20.8	3.0	17.8	1042 605
15	Y		20.7 17.5	18.6	3.0	15.6	970 533
16	B&W	10:52	20.0 18.2	18.8	2.9	15.9	994 557
17	R		20.9 19.0	19.6	2.9	16.7	1003 566
18	Y		19.1 17.6	18.1	2.9	15.2	919 482
19	B&W	10:54	16.8 14.2	15.1	2.9	12.2	866 429
20	R		16.4 14.6	15.2	2.9	12.3	872 435

Boat 278+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8413 Division No. ____ F. B. 1505 Pg. 12 43
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. LOW Checked ____ Survey by EHB Notes JRC Date 11-3-53
No. ____ Date 12-18-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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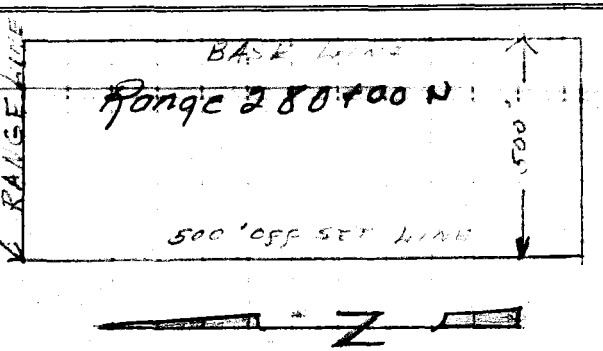
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		18.6 / 16.3	17.1	2.8	14.3	911	474
22	B&W	10:55	17.4 / 15.2	15.9	2.8	13.1	874	437
23	R		13.2 / 12.2	13.5	2.8	10.7	831	394
24	Y		15.1 / 13.5	14.0	2.8	11.2	850	413
25	B&W	10:57	14.8 / 12.2	13.1	2.8	10.3	844	407
26	R		15.3 / 11.0	12.4	2.8	9.6	828	391
27	Y		13.0 / 10.5	11.3	2.8	8.5	800	363
28	B&W	10:58	13.2 / 10.0	11.1	2.8	8.3	783	346
29	R		13.7 / 9.0	10.6	2.7	7.9	801	364

Boat 278700 N

F. B. 1505 Pg. 44 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDY Date ____ Date ____ No. ____
Survey by FAB Notes JRO Notes Chkd. [illegible] Checked ____ X-Sec. ____
Indexed K. C. Johnson Date ____ Date 12-18-53 Date ____ No. ____

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 45
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes E.R.	Date 11/3/53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1	[illegible]	11:1	90°00	
	2	[illegible]		90°00	
	3	[illegible]		90°00	
	4	[illegible]	11:17	90°00	
	5	[illegible]		90°00	
	6	[illegible]		90°00	
	7	[illegible]	11:19	90°00	
	8	[illegible]		90°00	
	9	[illegible]		90°00	
	10	[illegible]	11:23	90°00	
	11	[illegible]		90°00	
	12	[illegible]		90°00	
	13	[illegible]	11:26	90°00	
	14	[illegible]		90°00	
	15	[illegible]		90°00	
	16	[illegible]	11:28	90°00	
	17	[illegible]		90°00	
	18	[illegible]		90°00	
	19	[illegible]	11:30	90°00	
	20	[illegible]		90°00	

N-18 500' OFF Set

280+00 N-

Inst. At 280+00 N

RANGE 280+00 N

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761.298 307 8-53

F. B. 1505 Pg. 46 Job No. 84 12 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

Range 280+00 N.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	280+00 N
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
	[illegible]	Y		[illegible]		
	[illegible]	Bw	11:31	[illegible]		
	[illegible]	R		[illegible]		
	[illegible]	Y		[illegible]		
	[illegible]	Bw	11:32	[illegible]		
	[illegible]	R		[illegible]		
	[illegible]	Y		[illegible]		
	[illegible]	Bw	11:34	[illegible]		
	[illegible]	R		[illegible]		
	[illegible]	Y		[illegible]		
	[illegible]	Bw	11:37	[illegible]		
	[illegible]	R		[illegible]		
	[illegible]	Y		[illegible]		
	[illegible]	Bw	11:39	[illegible]		
	[illegible]	R		[illegible]		
	[illegible]	Y		[illegible]		

VOID

76L298 307 8-53

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13

Cut In 280+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
274+00	N15	1	B&W	11 12	77° 32		
		2	R		74° 22		
		3	Y		71° 21		
		4	B&W	11 16	71° 55*		
		5	R		68° 57		
		6	Y		65° 35		
		7	B&W	11 19	66° 45		
		8	R		68° 22		
		9	Y		65° 29		
		10	B&W	11 22	62° 07		
		11	R		56° 58		
		12	Y		57° 13		
		13	B&W	11 25	58° 53		
		14	R		52° 22		
		15	Y		49° 26		
		16	B&W	11 27	47° 04		
		17	R		43° 32		
		18	Y		45° 04*		
		19	B&W	11 29	44° 46		
		20	R		43° 59		

Note:
INST ON 550 FOOT OFFSET.

Cut In 280+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1504 Pg. 47
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes JS Date 11/3/53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN	280+00
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		43° 02		
	22	B&W	11 30	41° 16		
	23	R		40° 05		
274+00 N/S	24	Y		39° 26		
	25	B&W	11 31	37° 19		
	26	~~R~~		~~35° 36~~	VOID	
	27	Y		35° 20		
	28	B&W	11 33	33° 41		
	29	R		32° 36		
	30	Y		34° 52 *		
	31	B&W	11 36	36° 08		
	32	R		36° 44		
	33	Y		35° 10		
	34	B&W	11 38	35° 10		
	35	R		35° 36 *		
	36	Y		36° 39 *		

Cut In 280+00 N

F. B. 1505 Pg. 48 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blandwood Notes Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	280+00 -1-	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
		32.7					
1 Bow	11:11	28.0	29.4	2.4	27.0	3150	2713 +437
		30.0					
2 R		27.3	28.2	2.4	25.8	2581	2144
		26.0					
3		25.0	25.3	2.4	22.9	2215	1778
		28.3					
4 Bow	11:15	25.0	26.1	2.4	23.7	2274	1837
		26.2					
5 R		25.0	25.4	2.3	23.1	1996	1559
		25.0					
6		22.8	23.5	2.3	21.2	1759	1322
		24.7					
7 Bow	11:18	23.0	23.6	2.3	21.3	1833	1396
		27.0					
8 R		23.5	24.7	2.3	22.4	1950	1513
		25.1					
9		22.5	23.4	2.3	21.1	1753	1316
		24.3					
10 Bow	11:22	22.9	23.4	2.2	21.2	1571	1134
		22.1					
11 R		21.0	21.4	2.2	19.2	1360	923
		23.0					
12		21.0	21.7	2.2	19.5	1368	931
		23.2					
13 Bow	11:24	22.0	22.4	2.2	20.2	1531	1094
		22.7					
14 R		19.9	20.8	2.2	18.6	1215	778
		21.0					
15		19.0	19.7	2.2	17.5	1138	701
		20.7					
16 Bow	11:26	19.0	19.6	2.1	17.5	1081	644
		21.0					
17 R		17.2	18.5	2.1	16.4	1007	570
		21.2					
18		15.8	19.6	2.1	17.5	1038	601
		20.8					
19 Bow	11:28	17.6	18.7	2.1	16.6	1032	595
		19.1					
20 R		12.3	17.9	2.1	15.8	1016	579

Boat 280+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 7612 Division No. ____ F. B. 1505 Pg. 27

Line ____ Date ____ Date ____ Survey of Beach Erosion Study

Notes Chkd. ____ Checked ____ Survey by F.H.B. Note Tech. ____ Date 11-1-73

Date 12-18-73 Date ____ Map No. ____ Plotted ____ Date ____

75L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	280700 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		19.3 16.4 20.0	17.4	2.1	15.3	997	560
22	B+W	11.29	17.6 19.3	18.0	2.1	15.9	963	526
23	R		16.6 21.0	17.5	2.1	15.4	942	505
24	Y		16.0 19.9	17.7	2.1	15.6	930	493
25	B+W	11.30	15.0	16.6	2.1	14.5	894	457
26	R							VOID
27	Y		13.3 12.0 13.5	12.4	2.0	10.4	862	425
28	B+W	11.32	10.3 12.6	11.4	2.0	9.4	836	399
29	R		9.2 14.0	10.3	2.0	8.3	826	389
30	Y		12.0 15.0	12.7	2.0	10.7	855	418
31	B+W	11.36	12.2 17.0	13.1	2.0	11.1	875	438
32	R		14.8 15.2	15.5	1.9	13.6	885	448
33	Y		12.6 16.0	13.5	1.9	11.6	860	423
34	B+W	11.39	12.0 14.0	13.3	1.9	11.4	860	423
35	R		12.9 14.0	13.3	1.9	11.4	867	430
36	Y		12.2	12.1	1.9	10.2	883	446

Boat 280700

F. B. 1505 Pg. 60

Survey of BEACH EROSION STUDIES Division No. 4/1 Job No. Profile

Survey by Gardner & Johnson Notes Notes Red. Plotted

Indexed Date Date Date No.

Notes Chkd. Checked. X-Sec.

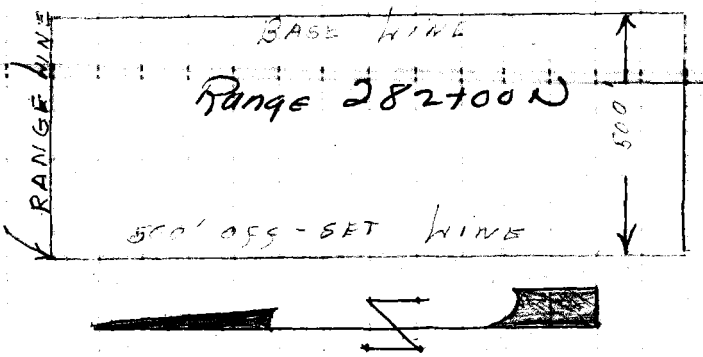
Date 12-18-57 Date No.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 51

Date ____ Date ____ Survey of ____

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes E.R. Date 11/4/53

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



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	1	B&W	6:55	90°00	
	2	R		90°00	
	3	Y		90°00	
	4	B&W	6:58	90°00	
	5	R		89°47	
	6	Y		90°00	
	7	B&W	7:02	90°00	
	8	R		90°00	
	9	Y		90°00	
	10	B&W	7:04	90°00	
	11	R		90°00	
	12	Y		90°00	
	13	B&W	7:08	90°00	
	14	R		90°00	
	15	Y		90°00	
	16	B&W	7:10	90°00	
	17	R		90°00	
	18	Y		90°00	
	19	B&W	7:13	90°00	
	20	R		90°00	

N-18 - 500' OFF-SET

282+00 - N -

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76L298 307 8-53

F. B. 1505 Pg. 52 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

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

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

Range
282+00N

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Range	282+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00		
	22	B4W	7:16	90°00		
	23	R		90°00		
	24	Y		90°00		
	25	B4W	7:18	90°00		
	26	R		90°00		
	27	Y		90°00		
	28	B4W	7:20	90°00		
	29	R		90°00		
	30	Y		90°00		
	31	B4W	7:23	90°00		
	32	R		90°00		
	33	Y		90°00		
	34	B4W	7:26	90°00		
	35	R		90°00		
	36	Y		90°00		
	37	B4W	7:27	90°00		
	38	R		90°00		
	39	Y		90°00		
	40	B4W	7:32			

76L298 307 8-53

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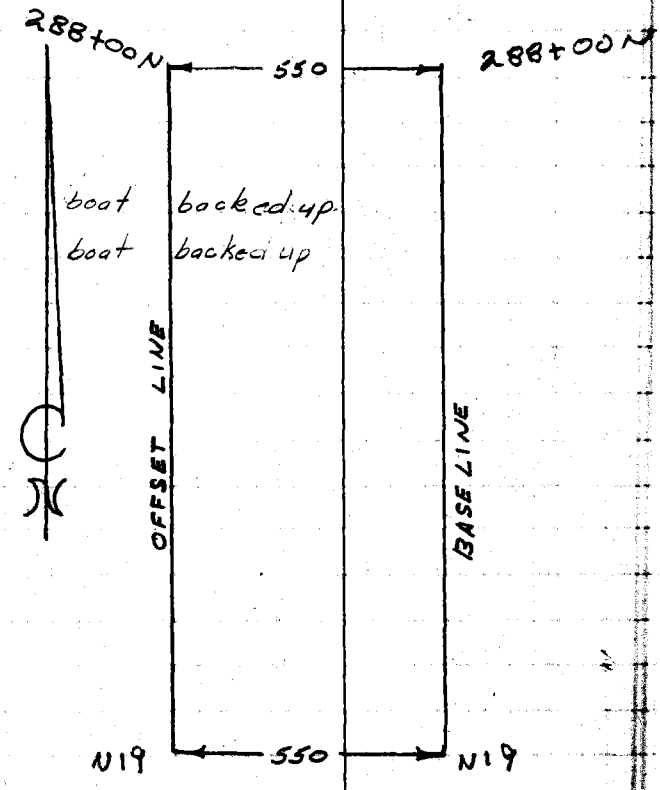
Do not extend notes this side of this line.

Cut IN 282+00N

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
288+00N 550 OFFSET	N22 550 OFFSET	1	B+W	6:55	70°28	
		2	R		68°36	
		3	Y		66°01	
		4	B+W	6 57	51°18	
		* 5	R		63°37	boat backed up
		6	Y		66°54	boat backed up
		7	B+W	7:01	65 00	
		8	R		62°39	
		9	Y		60°42	
		10	B+W	7 03	58°24	
		11	R		56°09	
		12	Y		54°06	
		13	B+W	7:07	52°34	
		14	R		49°29	
		15	Y		46°49	
		16	B+W	7:09	48°59	
		17	R		47°22	
		18	Y		44°43'	
		19	B+W	7 13	42°17	
		20	R		40°25	



Cut IN 282+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes JU Date 11-4-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1505 Pg. 53

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 1505 Pg. 84 Job No. 8412 Division No. Notes Red. Plotted Profile No.
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by Blanchard Notes FHB Notes Chkd. Checked
Indexed H. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut IN 282+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		38°11	
	22	B&W	7 15	37°36	
	23	R		34 26	
	24	Y		31°23	
	25	B&W	7:18	28°58	
	* 26	R		32°44	boat backed up.
	27	Y		31°43	
	28	B&W	7:20	30°14	
	29	R		28°48	
	30	Y		26°38	
	31	B&W	723	29°34	boat backed up
	32	R		28°25	
	33	Y		27°59	
	34	B&W	726	27°55	
	35	R		27°08	
	36	Y		25°09	
	37	B&W	729	28°50	boat backed up.
	38	R		26 48	
	39	Y		29 35	boat backed up.
	40	B&W	732	29 58	

Cut 282+00 N
288+00 N 550' offset W

76L298 307 4-50

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BOAT 282+00N

STATION #	Color	Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth		Remarks
1	BEW	6:55	32.8 / 29.8	30.8	6.0	24.8	1697	
2	R		30.1 / 29.0	29.4	6.0	23.4	1531	Bottom very irregular (ripples & dunes) may be due to Vanner Bar
3	Y		30.2 / 29.0	29.4	6.0	23.4	1348	
4	BEW	6:58	28.0 / 26.5	27.0	6.0	21.0	1096	
5	R		28.0 / 26.2	26.8	6.0	20.8	1210	
6	Y		30.4 / 27.1	28.2	6.0	22.2	1407	
7	BEW	7:02	29.0 / 28.0	28.3	6.0	22.3	1267	
8	R		28.6 / 27.4	27.8	6.0	21.8	1160	
9	Y		28.9 / 26.6	27.4	6.0	21.4	1069	
10	BEW	7:04	27.1 / 25.3	25.9	6.0	19.9	975	
11	R		28.2 / 24.0	25.4	6.0	19.4	894	
12	Y		27.3 / 24.0	25.1	6.0	19.1	829	
13	BEW	7:07	26.7 / 24.7	25.4	6.0	19.4	784	
14	R		26.6 / 24.0	24.9	6.0	18.9	706	
15	Y		24.5 / 22.3	23.0	6.0	17.0	639	
16	BEW	7:10	27.3 / 23.1	24.5	6.0	18.5	690	
17	R		27.9 / 23.0	23.6	6.0	17.6	642	
18	Y		26.3 / 23.5	24.4	6.0	18.4	594	
19	BEW	7:13	25.0 / 23.2	23.8	6.0	17.8	546	
20	R		24.6 / 22.3	23.1	6.0	17.1	571	

1697	2241
1531	2081
1348	1898
1096	1646
1210	1760
1407	1957
1267	1837
1160	1710
1069	1619
975	1525
894	1444
829	1379
784	1334
706	1252
639	1189
690	1240
642	1202
594	1144
546	1096
571	1061

Boat 282+00N

Profile Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
Notes Checked Bank Check Survey by Blendel Hess Date 11-4-52
No. _____ Date 12-18-52 Date _____ Map No. _____ Min. Co-ordinates Date _____

F.B. 1505 P. 55

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		282+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		23.0 21.0	21.7	6.0	15.7	472	1022
22	B&W	7:16	23.0 21.0	21.7	6.0	15.7	462	1012
23	R		23.9 21.8	22.5	6.0	16.5	411	961
24	Y		23.1 20.8	21.6	6.0	15.6	366	916
25	B&W	7:18	21.1 19.0	19.7	6.0	13.7	332	882
26	R		23.2 21.2	21.9	6.0	15.9	386	936
27	Y		22.0 20.9	21.3	6.0	15.3	371	921
28	B&W	7:20	21.0 20.0	20.3	6.0	14.3	350	900
29	R		20.2 19.1	19.5	6.0	13.5	330	880
30	Y		20.1 17.0	18.0	6.0	12.0	301	851
31	B&W	7:22	21.4 19.5	20.1	6.0	14.1	340	890
32	R		20.3 18.5	19.1	6.0	13.1	325	875
33	Y		21.5 18.0	19.2	6.0	13.2	319	869
34	B&W	7:26	20.3 17.2	18.2	6.0	12.2	318	868
35	R		18.2 16.9	17.3	6.0	11.3	307	857
36	Y		16.8 13.2	14.4	6.0	8.4	282	832
37	B&W	7:29	21.0 18.0	19.0	6.0	13.0	330	880
38	R		19.2 15.0	16.4	5.9	10.5	303	852
39	Y		22.2 18.3	19.6	5.9	13.7	341	891
40	B&W	7:33	22.2 19.1	20.1	5.9	14.2	346	896

Boat 282+00N

F. B. 1505 Pg. 56 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes 11/4/53 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date 12-15-53 Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 57
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes ER	Date 11/4/83	
No.	Date	Date	Map No.	Indexed Johnson	Date	

Range 282+00 N

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STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	282+00 N
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Remarks	
	41	R		90°00		
	42	Y		90°00		
	43	B+W	7:37	90°00		
	44	R		90°00		
	45	Y		90°00		
	46	B+W	7:39	90°00		
	47	R		90°00		
	48	Y		90°00		
	49	B+W	7:41	90°00		
	50	R		90°00		
	51	Y		90°00		
	52	B+W	7:44	90°00		
	53	R		90°00		
	54	Y		90°00		

N-18 - 500' OFF-SET

282+00 - N

761298 307 8-53

F.B. 1505 Pg. 58 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
284+00 -N-	1	B+W	8:1[illegible]	[illegible]	
	2	R		[illegible]	
	3	Y		[illegible]	
	4	B+W	8:[illegible]	[illegible]	
	5	R		90°00'	
	6	Y		90°00'	
	7	B+W	8:20	90°00'	
	8	R		90°00'	
	9	Y		[illegible]	
	10	B+W	8:2[illegible]	[illegible]	
	11	R		[illegible]	
	12	Y		[illegible]	
	13	B+W	8:26	90°00'	
	14	R		[illegible]	
	15	Y		[illegible]	
	16	B+W	8:28	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B+W	8:[illegible]	[illegible]	
	20	R		[illegible]	

Range 284+00 N

RANGE 284+00 -N-

76L298 307 8-53

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Do not extend notes this side of this line.

Cut IN 282+00 N

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
288+00 N 550 offset W	N-22 550 offset W	41	R		25 45	
		42	Y		27 33	
		43	B&W	736	26 32	
		44	R		25 49	
		45	Y		25 21	
		46	B&W	738	25 39	
		47	R		23° 43	
		48	Y		21° 48	
		49	B&W	740	20° 59	
		50	R		20° 47	
		51	Y		18° 09	
		52	B&W	743	20 06	boot backed up.
		53	R		19 45	
		54	Y		19 12	
		55				

Cut IN 282+00 N

Profile Notes Red. ____ Plotted ____ Job No. 84/12 Division No. ____
No. ____ Date ____ Date ____ Survey of BLACK EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes FHB Date 11-4-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 1505 Pg. 59

76L298 307 8-53

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Do not extend notes this side of this line.

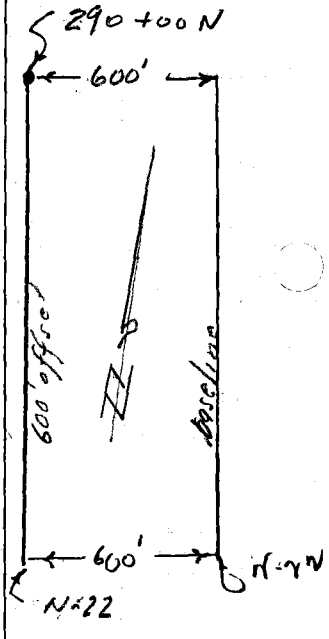
Cut IN 284+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B&W	8:12	72° 45	
	2	R		71° 36	
	3	Y		70° 15	
	4	B&W	8:16	69° 12	
	5	R		67° 32	
	6	Y		65° 56	
	7	B&W	8:19	64° 40	
	8	R		62° 38	
	9	Y		60° 46	
	10	B&W	8:23	59° 35	
	11	R		58° 27	
	12	Y		56° 40	
	13	B&W	8:25	55° 45	
	14	R		53° 47	
	15	Y		51° 28	
	16	B&W	8:27	49° 30	
	17	R		47° 39	
	18	Y		45° 57	
	19	B&W	8:29	44° 03	
	20	R		42° 32	

290+00N 600W

Cut IN 284+00N

N-22 600W



E.B. 1505 Pg. 60 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes FHB Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		282+00 N
#	Color	Time	Mean Depth	Bottom	Tide	Adj. Depth		Remarks
41	R		16.7 14.7	15.4	5.9	9.5	289	839
42	Y		19.2 17.0	17.7	5.9	11.8	313	863
43	B&W	7:37	18.9 16.0	17.0	5.9	11.1	300	850
44	R		16.8 14.0	14.9	5.9	9.0	290	840
45	Y		16.5 15.0	15.5	5.9	9.6	284	834
46	B&W	7:39	17.0 14.0	15.0	5.9	9.1	288	838
47	R		15.1 13.2	13.8	5.9	7.9	264	818
48	Y		14.0 12.0	12.7	5.9	6.8	240	790
49	B&W	7:41	13.7 12.0	12.6	5.9	6.7	230	780
50	R		13.1 12.2	12.5	5.9	6.6	228	778
51	Y		12.4 9.5	10.5	5.9	4.6	197	747
52	B&W	7:44	13.3 12.2	12.6	5.9	6.7	220	770
53	R		12.2 11.0	11.4	5.9	5.5	215	765
54	Y		14.0 10.7	11.8	5.9	5.9	209	759

BOAT 282+00 N

Profile Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F. S. 1505 Pg. 61
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES
No. _____ Notes Chkd. [illegible] Checked _____ Survey by [illegible] Date 11/4/53
No. _____ Date 12-18-53 Date _____ Map No. _____ Indexed _____ Date _____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1505 Pg. 62

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

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

Survey of Beach Erosion Survey Date ____ Notes Chk. Date 11/4/53

Survey by Bayliard Notes ____ Checked Date 11-17-53

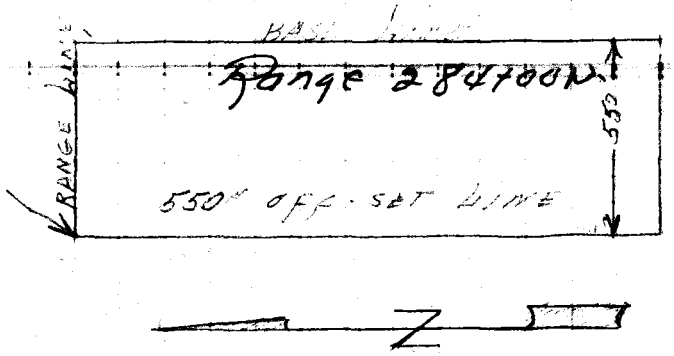
Indexed J. C. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	284+00N	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1 B&W	8:12	34.1 / 31.0 / 32.5	32.0	5.7	26.3	1932	2532 — 600' offset added
2 R		29.7	30.6	5.7	24.9	1803	2403
3 Y		32.0 / 30.0	30.7	5.6	25.1	1671	~~1272~~
4 B&W	8:17	32.0 / 29.0	30.0	5.6	24.4	1580	2180
5 R		30.1 / 28.7	29.2	5.6	23.6	1451	2051
6 Y		32.3 / 27.1	28.8	5.6	23.2	1343	1943
7 B&W	8:20	29.7 / 28.0	28.6	5.6	23.0	1267	1867
8 R		28.7 / 27.1	27.6	5.6	22.0	1159	1759
9 Y		29.4 / 25.5	26.8	5.6	21.2	1072	1672
10 B&W	8:23	28.0 / 25.0	26.3	5.6	20.7	1022	1622
11 R		28.5 / 26.0	26.8	5.6	21.2	977	1577
12 Y		27.8 / 25.0	25.9	5.6	20.3	912	1512
13 B&W	8:26	27.2 / 25.1	25.8	5.5	20.3	881	1481
14 R		26.4 / 24.0	24.8	5.5	19.3	824	1424
15 Y		25.0 / 24.0	24.3	5.5	18.8	753	1353
16 B&W	8:28	26.6 / 23.5	24.5	5.5	19.0	703	1303
17 R		26.1 / 24.0	24.7	5.5	19.2	658	1258
18 Y		25.5 / 23.2	24.0	5.5	18.5	620	[illegible]
19 B&W	8:30	23.4 / 22.3	22.8	5.5	17.3	[illegible]	[illegible]
20 R		24.1 / 23.0	23.4	5.5	17.9	[illegible]	[illegible]

Bottom very irregular (up and down) may be due to Venice BW.

Boat 284+00N

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 63
No.	Date	Date	Survey of Beach Excession			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes JCG	Date 10/4/53	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y			
	22	Blue			
	23	R			
	24	Y			
	25	Blue			
	26	R			
	27	Y			
	28	Blue			
	29	R			
	30	Blue			
	31	Blue			
	32	R			
	33	Y			
	34	Blue			
	35	R			
	36	Y			
	37	Blue			
	38	R			
	39	Y			
	40	Blue			

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F.B. 1505 Pg. 64 | Job No. | Division No. | Notes Red. | Plotted | Profile

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

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

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

Range 284+00N 284+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. sight OR	#	Color	Time	Hor. Ang.	

76L298 3C7 8-53

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Do not extend notes this side of this line.

Cut IN 284+00 N

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		21	Y		41°07	
		22	B+W	8:32	39°41	
		23	R		36°36	
		24	Y		34°50	
		25	B+W	8:35	33°45	
		26	R		32°06	
		27	Y		30°38	
		28	B+W	8:37	28°46	
		29	R		27°21	
		30	Y		25°30	
		31	B+W	8:39	28°59	
		32	R		28°54	
		33	Y		29°16	
		34	B+W	8:43	27°25	
		35	R		26°39	
		36	Y		24°48	
		37	B+W	8:47	23°35	
		38	R		26°28	
		39	Y		25°00	
		40	B+W	8:50	24°41	

290+00 N 600 W

N-22 600 W

Cut IN 284+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 65

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes FHB Date 11-4-53

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

76L298 307 8-53

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Do not extend notes this side of this line.

F. B. 1505 Pg. 66 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No.
Survey by Blanchard Notes FHB | Notes Chkd. | Checked | X-Sec.
Indexed J. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut IN 284+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	41	R		23°15	
	42	Y		22°04	
	43	B+W	8:52	21°37	
	44	R		21°02	
	45	Y		20°55	
	46	B+W	8:55	19°53	
	47	R		17°26	
	48	Y		16°41	
	49	B+W	8:57	16°40	
	50	R		14°46	
	51	Y		13°48	
	52	B+W	8:59	15°35	
290+00N 600'W					
N-22 600'W					
Cut IN 284+00N					

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		284+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		24.5 22.7	23.3 ?23.7?	5.5	17.8	524	1124
22	B&W	8:32	27.0 22.0	23.7	5.5	18.2	498	1098
23	R		24.0 21.0	22.0	5.5	16.5	446	1046
24	Y		23.3 21.4	22.0	5.4	16.6	418	1018
25	B&W	8:36	23.6 21.0	21.9	5.4	16.5	401	1001
26	R		22.6 20.5	21.2	5.4	15.8	375	975
27	Y		21.5 20.5	20.8	5.4	15.4	355	955
28	B&W	8:38	21.9 19.1	20.0	5.4	14.6	329	929
29	R		21.0 19.0	19.7	5.4	14.3	310	910
30	Y		18.2 17.0	17.4	5.4	12.0	286	886
31	B&W	8:41	23.2 19.0	20.4	5.4	15.0	332	932
32	R		22.2 19.3	20.3	5.4	14.9	331	931
33	Y		22.0 19.0	20.0	5.3	14.7	336	936
34	B&W	8:44	22.4 18.3	19.7	5.3	14.4	311	911
35	R		19.9 18.0	18.6	5.3	13.3	301	901
36	Y		19.0 17.0	17.7	5.3	12.4	277	877
37	B&W	8:47	18.0 14.9	15.9	5.3	10.6	262	862
38	R		20.1 18.1	18.8	5.3	13.5	299	899
39	Y		18.0 17.0	17.3	5.3	12.0	280	880
40	B&W	8:51	17.4 16.1	16.5	5.3	11.2	276	876

Boat 284+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 67
No. ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by ____ Date 11/4/53
No. ____ Date 12-18-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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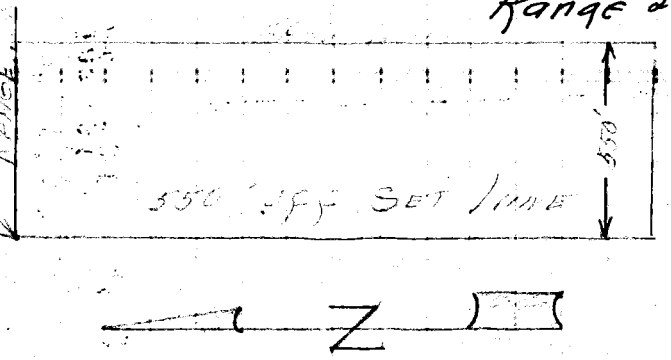
STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		284+00N
#	Color Time	Meas. Depth	Bottom Tide		Adj. Depth		Remarks
41	R	17.2 15.0	15.7	5.2	10.5	258	858
42	Y	16.0 13.5	14.3	5.2	9.1	243	843
43	B&W	8:53 15.2 13.1	13.8	5.2	8.6	238	838
44	R	16.0 13.3	14.2	5.2	9.0	231	831
45	Y	15.8 13.0	13.9	5.2	8.7	229	829
46	B&W	8:56 13.9 12.5	13.0	5.2	7.8	217	817
47	R	13.1 11.2	11.8	5.2	6.6	188	788
48	Y	12.5 11.0	11.5	5.2	6.3	180	780
49	B&W	8:58 12.8 11.0	11.6	5.2	6.4	180	780
50	R	12.6 10.0	10.9	5.2	5.7	158	758
51	Y	10.1 7.1	8.1	5.2	2.9	147	747
52	B&W	9:00 10.8 9.2	9.7	5.2	4.5	167	767

Boat 284+00N

F. B. 1505 Pg. 68
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes 11/4/53 Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date 12-18-53 Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505 Pg. 69
No.	Date	Date	Survey of BEACH EROSION STUDIES		
X-Sec.	Notes Chkd.	Checked	Survey by Bianchard	Notes	Date
No.	Date	Date	Map No.	Indexed J. C. Johnson	Date

Range 286+00 N



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	#	Color	Time	Hor. Ang.	
284+00 N	1		9.14		
	2				
	3				
	4				
	5		9.21		
	6		9.23		
	7				
	8				
	9		9.30		
	10				

RANGE

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76L298 307 8-53

76L296 307 8-53

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Do not extend notes this side of this line.

Cut IN 286+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
	21	Y		22°36	
	22	B&W	9 32	20°39	
	23	R		18°26	
	24	Y		19°26	boat backed up.
	25	B&W	9 34	18°28	
	26	R		16°47	
	27	Y		15°00	
	28	B&W	9 36	13°37	
	29	R		11°12	
	30	Y		9°38	
	31	B&W	9 39	8°17	
	32	R		11°07	boat backed up.
	33	Y		10°16	
	34	B&W	9 42	9°24	
	35	R		8 05	
	36	Y		9 21	
	37	B&W	9 45	8 40	
	38	R		8 44	
	39	Y		7 58	
	[illegible]	[illegible]	[illegible]	[illegible]	

Cut IN 286+00N 295+00N 775'W

294+00N 775'W

Profile 1

Job No. 8412 Division No. Notes Red. Plotted No. X-Sec.

Survey of BEACH EROSION STUDIES Date Checked

Survey by Blanchard Notes FMB Notes Chkd. Date

Indexed A. C. Johnson Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		286+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	9:14	32.2 29.5	30.4	4.9	25.5	2312	1553 + 759
2	R		30.6 29.5	29.9	4.9	25.0	2172	1413
3	Y		30.3 27.1	28.2	4.9	23.3	2078	1319
4	B&W	9:18	29.6 28.7	29.0	4.9	24.1	2119	1360
5	R	:19	28.9 28.0	28.3	4.9	23.4	2009	1250
6	Y	:20	28.7 27.0	27.6	4.9	22.7	1913	1154
7	B&W	9:21	28.0 26.0	26.7	4.8	21.9	1870	1111
8	R		28.0 25.0	26.0	4.8	21.2	1777	1018
9	Y		27.0 26.0	26.~~7~~ 3	4.8	21.~~9~~ 5	1739	980
10	B&W	9:23	27.0 25.3	25.9	4.8	21.1	1672	913
11	R		26.0 24.1	24.7	4.8	19.9	1614	855
12	Y		26.3 24.0	24.8	4.8	20.0	1578	819
13	B&W	9:25	26.0 24.4	24.9	4.8	20.1	1526	767
14	R	:26	27.0 25.1	25.7	4.8	20.9	1477	718
15	Y	:27	26.4 23.0	24.1	4.7	19.4	1426	667
16	B&W	9:28	26.0 23.3	24.2	4.7	19.5	1381	622
17	R		24.4 23.0	23.5	4.7	18.8	1329	570
18	Y		23.8 21.9	22.5	4.7	17.8	1279	520
19	B&W	9:30	25.0 22.0	23.0	4.7	18.3	1241	482
20	R	:31	23.9 22.1	22.7	4.7	18.0	1186	427

759' offset added to cut-in distance

Boat 286+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 73

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

X-Sec. Notes Chk'd [illegible] Checked ____ Survey by [illegible] Date 11/4/53

No. ____ Date 12-18-53 Date ____ Map No. ____ Indexed [illegible] Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		286+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y	132	23.7 21.0	21.9	4.6	17.3	1131	372 +759
22	B&W	9:33	22.0 21.2	21.5	4.6	16.9	1134	375
23	R		22.5 19.5	20.5	4.6	15.9	1056	297
24	Y		22.0 21.0	21.3	4.6	16.7	1073	314
25	B&W	9:35	22.4 20.2	20.9	4.6	16.3	1058	299
26	R		22.0 20.1	20.7	4.6	16.1	1029	270
27	Y		21.1 19.2	19.8	4.6	15.2	996	237
28	B&W	9:37	20.8 19.0	19.6	4.6	15.0	969	210
29	R	38	20.5 18.1	18.9	4.5	14.4	934	175
30	Y	39	19.1 17.0	17.7	4.5	13.2	909	150
31	B&W	9:40	17.5 14.5	15.5	4.5	11.0	888	129
32	R		21.1 17.6	18.8	4.5	14.3	933	174
33	Y		20.1 17.9	18.6	4.5	14.1	920	161
34	B&W	9:43	18.2 16.0	16.7	4.5	12.2	906	147
35	R		15.7 14.4	14.8	4.4	10.4	882	123
36	Y		18.8 16.1	17.0	4.4	12.6	889	130
37	B&W	9:46	17.6 15.0	15.9	4.4	11.5	892	133
38	R		16.9 15.0	15.6	4.4	11.2	894	135
39	Y		18.1 14.0	15.4	4.3	11.1	879	120
40	B&W	9:50	15.0 12.0	13.0	4.3	8.7	868	109

Boat 286+00

F.B. 1505 No. 74
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes 11/4/53 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date 12-18-53 Date No.

F. B. 1505 Pg. 75

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
Date ____ Date ____ Survey of ____
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes E.R. Date 11/4/53
Date ____ Date ____ Map No. ____ Indexed G. Johnson Date ____

Range 286+00 N

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	41	[illegible]		[illegible]	
	42	[illegible]		[illegible]	
	43	[illegible]	[illegible]	[illegible]	
	44	[illegible]		[illegible]	
	45	[illegible]		[illegible]	
	46	[illegible]	9.55	[illegible]	
284+00					
286+00					

76L298 307 8-53

F.B. 1505 Pg. 76 | Job No. 842 | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

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

Range 288+00 2

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight On					
At	#	Color	Time	Hor. Ang.	
	1				
	2				
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76L298 307 8-53

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Cut 1K 286+00N

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
		41	R		8°23	
		42	Y		7°12.	
		43	B&W	9 53	6°18	
		44	R		5°07	
		45	Y		3°12	
		46	B&W	9 55	2°17	
295+00 N 775 W	294+00 N 775 W					

Cut 286+00N

Profile Notes Red. ____ Plotted ____ Job No. 8417 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes F1+B Date 11-4-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1505 PG. 77

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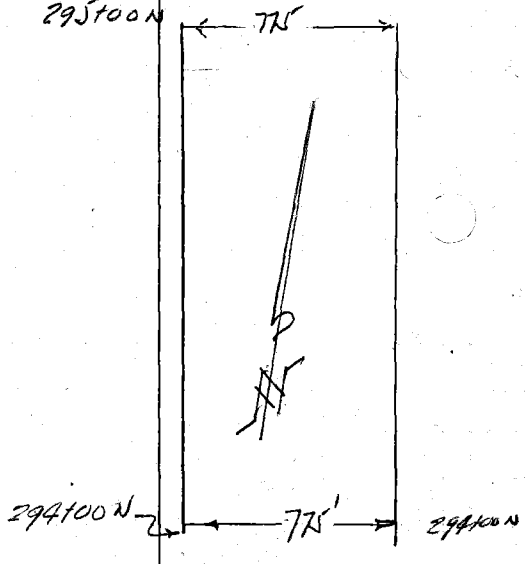
F.B. 1541 Pg. 78 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date No.
Survey by Blanchard Notes FHD Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.
Profile X-Sec.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut IN 288+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	10:27	69°55	
	2	R		68°25	
	3	Y		67°13	
	4	B&W	10 31	65°21	
	5	R		63 13	
	6	Y		61 49	
	7	B&W	10 34	60 20	
	8	R		57 42	
	9	Y		55 04	
	10	B&W	10 36	51 42	
	11	R		53 00	
	12	Y		49 32	
	13	B&W	10 39	45 24	
	14	R		42 21	
	15	Y		38 48	
	16	B&W	10 42	34 26	
	17	R		29 56	
	18	Y		26 59	
	19	B&W	10 44	24 43	
	20	R		21 29	

Cut IN 288+00 N 295+00 N 775' W offset
294+00 N 775' W. - offset



76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		286+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
41	R	:51	17.2 15.0	15.7	4.3	11.4	889	130 +759
42	Y	:52	16.1 12.5	13.7	4.3	9.4	869	110
43	B&W	9:53	14.3 12.7	13.2	4.2	9.0	859	100
44	R		13.0 11.0	11.7	4.2	7.5	837	78
45	Y		11.8 9.8	10.5	4.2	6.3	804	45
46	B&W	9:55	11.9 9.0	10.0	4.2	5.8	787	28

Profile Notes Red. ____ Plotted ____ Job No. 8417 Division No. ____ F.B. 1505 Pg. 74
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by [illegible] Date 11/4/53
No. ____ Date 12-18-53 Date ____ Map No. ____ [illegible] Johnson Date ____

Boat 286+00 N

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		288+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:28	29.5 32.5	30.5	3.4	27.1	2648	1889 +759
2	R		32.0 28.0	29.3	3.4	25.9	2495	1736
3	Y		30.0 28.1	28.7	3.4	25.3	2397	1638
4	B&W	10:32	30.0 28.0	28.7	3.3	25.4	2259	1500
5	R		29.0 26.1	27.1	3.3	23.8	2128	1369
6	Y		29.0 26.0	27.0	3.3	23.7	2047	1288
7	B&W	10:35	28.0 25.8	26.5	3.3	23.2	1969	1210
8	R		26.1 25.0	25.4	3.3	22.1	1851	1092
9	Y		26.5 24.5	25.2	3.2	22.0	1749	990
10	B&W	10:37	25.0 22.5	23.3	3.2	20.1	1636	877
11	R	38	25.5 23.2	24.0	3.2	20.8	1677	918
12	Y	39	24.0 23.1	23.4	3.2	20.2	1568	809
13	B&W	10:40	24.0 21.1	22.1	3.1	19.0	1461	702
14	R	41	24.1 21.0	22.0	3.1	18.9	1391	632
15	Y	42	22.9 21.0	21.6	3.1	18.5	1316	557
16	B&W	10:43	22.4 21.0	21.5	3.1	18.4	1232	473
17	R		22.5 19.5	20.5	3.0	17.5	1158	379
18	Y		22.7 19.3	20.4	3.0	17.4	1111	352
19	B&W	10:45	21.2 17.8	18.9	3.0	15.9	1063	304
20	R	46	20.6 18.2	19.0	3.0	16.0	1031	272

759' offset added to cut-in distance

Boat 288+00N

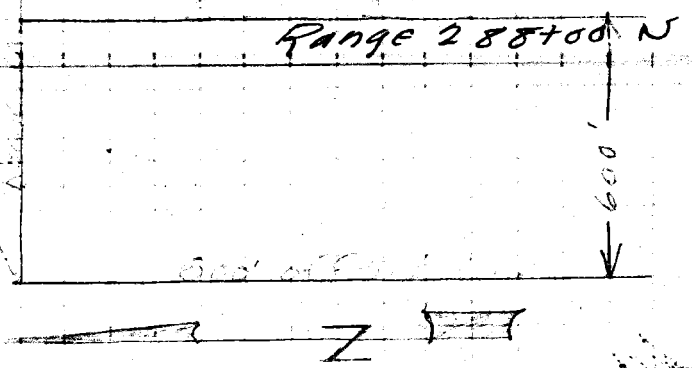
F. B. 1505 Pg. 80 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes 11/4/53 Notes Chkd. Checked
Indexed A. C. Johnson Date Date 12-18-53 Date No.

F. B. [illegible] Pg. 81

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

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of [illegible] Survey by [illegible] Notes [illegible] Date 11-4-53

Map No. ____ Indexed [illegible] Date ____



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y		[illegible]	
	22	B+W	10.47	90°00	
	23	K		90°00	
	24	Y		90°00	
	25	B+W	10.50	90°00	
	26	K		90°00	
	27	Y		90°00	
	28	B+W	10.52	90°00	
	29	Y		90°00	
	30	Y		90°00	
	31	B+W	10.55	90°00	
	32	K		90°00	
	33	Y		90°00	
	34	B+W	10.55	90°00	
	35			90°00	
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290+00

288+00

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F.B. 1505 Pg. 82 Job No. 84 Division No. Notes Red. Plotted Profile

Survey of [illegible] Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
Range 290+00 N						

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Cut In 288+00 N

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
775 W offset	775 W offset	21	Y		19 09		
		22	B&W	10:46	16 30		
		23	R		12 50		
		24	Y		16 36		
		25	B&W	10 50	15 13		
		26	R		12 55		
		27	Y		10 06		
		28	B&W	10 52	12 02		
		29	R		11 49		
		30	Y		9 34		
295+00N	294+00N	31	B&W	10 54	12 43		
		32	R		10 39		
		33	Y		9 07		
		34	B&W	10 57	7 54		
		35	R		6 07		

Cut In 288+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 PG. 83
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes PHB Date 11-9-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 8-53

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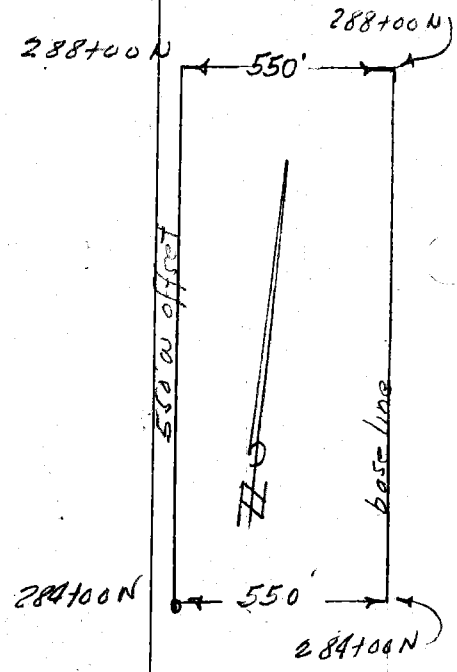
Do not extend notes this side of this line.

Cut In 290+00 N

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
Cut In 290+00 N 284+00 N 550' W	288+00 N 550' W	1	B&W	11°11	72° 42	
		2	R		71° 29	
		3	Y		69° 53	
		4	B&W	11 15	68° 33	
		5	R		67 04	
		6	Y		65 31	
		7	B&W	11 18	63 00	
		8	R		61° 44	
		9	Y		60° 08	
		10	B&W	11 21	58 00	
		11	R		55 29	
		12	Y		56° 54	
		13	B&W	11 24	55° 45	
		14	R		53° 15'	
		15	Y		50 50	
		16	B&W	11 27	52 01	boat out
		17	R		49° 47	
		18	Y		48 25	
		19	B&W	11 30	46 05	
		20	R		43 37	



E.B. 1505 Pg. 84 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by Blanchard Notes FHB Notes Chkd. Checked X-Sec.
Indexed L. C. Johnson Date Date Date No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		288+00N.
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y	47	20.5 17.0	18.2	2.9	15.3	999	240 + 759
22	B&W	10:48	18.9 17.0	17.6	2.9	14.7 ~~15.7~~	962	203
23	R	49	17.1 14.5	15.4	2.9	12.5	917	158
24	Y	50	18.9 16.1	17.0	2.9	14.1	964	205
25	B&W	10:51	18.0 16.9 ?	17.3 ?	2.8	14.5 ?	948	189
26	R		16.8 14.7	15.4	2.8	12.6	917	158
27	Y		15.0 11.3	12.5	2.8	9.7	879	120
28	B&W	10:53	16.1 13.9	14.6	2.8	11.8	906	147
29	R		17.0 13.0	14.3	2.8	11.5	902	143
30	Y		13.2 11.0	11.7	2.8	8.9	873	114
31	B&W	10:55	15.4 14.1	14.5	2.7	11.8	912	153
32	R	56	13.2 12.3	12.6	2.7	9.9	887	128
33	Y	57	13.0 10.7	11.5	2.7	8.8	868	109
34	B&W	10:58	13.0 9.7	10.8	2.7	8.1	854	95
35	R		11.7 8.9	9.8	2.6	7.2	831	72

Boat 288+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 85
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard ____ Date 11/4/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Checked ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	290+00N

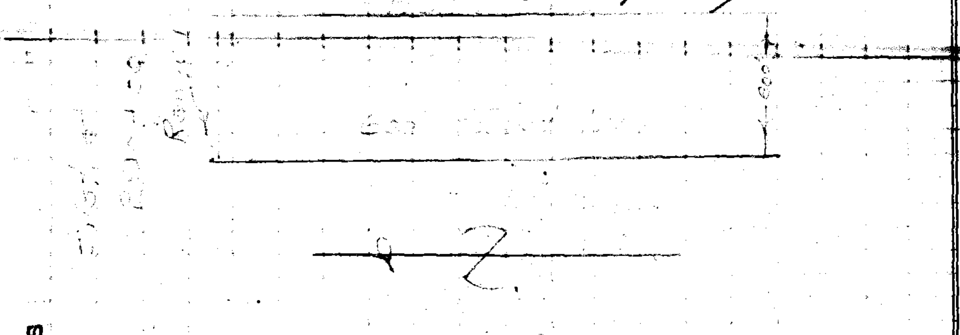
#	Color	Time	30.8 Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	11:13	28.0	28.9	2.2	26.7	2488	1938 +550
2	R		28.2 27.0	27.4	2.2	25.2	2341	1791
3	Y		27.9 26.8	27.2	2.2	25.0	2188	1638
4	B&W	11:16	27.7 26.1	26.6	2.1	24.5	2064	1514
5	R	17	26.1 24.9	25.3	2.1	23.2	1968	1418
6	Y	18	26.7 23.8	24.8	2.1	22.7	1868	1318
7	B&W	11:19	24.9 23.1	23.7	2.1	21.6	1728	1178
8	R		24.6 22.7	23.3	2.0	21.3	1666	1116
9	Y		23.0 22.0	22.3	2.0	20.3	1595	1045
10	B&W	11:22	23.2 21.6	22.1	2.0	20.1	1510	960
11	R		22.4 19.5	20.5	2.0	18.5	1422	872
12	Y		22.5 21.0	21.5	2.0	19.5	1470	920
13	B&W	11:25	22.0 20.3	20.9	1.9	19.0	1431	881
14	R		21.8 19.6	20.3	1.9	18.4	1353	803
15	Y		20.6 18.0	18.9	1.9	17.0	1286	736
16	B&W	11:28	22.7 19.1	20.3	1.9	18.4	1318	768
17	R	29	21.0 19.0	19.7	1.8	17.9	1259	709
18	Y	30	20.2 19.0	19.4	1.8	17.6	1226	676
19	B&W	11:31	20.8 18.0	18.9	1.8	17.1	1173	623
20	R		19.8 17.0	17.9	1.8	16.1	1122	572

Boat 290+00N

F. B. 1505 Pg. 86 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by Blanchard Notes FHB 11/4/53 Notes Chkd. Checked
Indexed C. Johnson Date Date 12-21-53 Date No.

Profile No.	Notes Red.	Plotted	Job No. 14-2	Division No.	F. B. Pg. 87
X-Sec. No.	Date	Date	Survey of		
	Notes Chkd.	Checked	Survey by	Notes	Date 11-4-53
	Date	Date	Map No.	Indexed	Date

Range 290+00 N



Range 290+00

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

76L298 307 8-53

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

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed X. E. Johnson Date Date Date No.

Range 293+00N

23+00 - N -

Inst. Sight At On

#	Color	Time	Hor. Ang.	Remarks
1	B+W	12:07	90°00	
2	R		90°00	
3	Y		90°00	
4	B+W	12:11	90°00	
5	R		90°00	
6	Y		90°00	
7	B+W	12:14	90°00	
8	R		90°00	
9	Y		90°00	
10	B+W	12:16	90°00	
11	R		90°00	
12	Y		90°00	
13	B+W	12:18	90°00	
14	R		90°00	
15	Y		90°00	
16	B+W	12:20	90°00	
17	R		90°00	
18	Y		90°00	
19	B+W	12:22	90°00	
20	R		90°00	

Range 293+00 N

76L298 307 8-53

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Cut In 290+00N

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
550W offset	550'W offset	21	Y		41 14	
		22	B&W	11 32	40 35	
		23	R		39 13	
		24	Y		38 44	
		25	B&W	11 34	36 48	
		26	R		34 13	
		27	Y		36 51	boat out
		28	B&W	11 38	35 52	
		29	R		33 15	
284+00N	288+00N	30	Y		31 20	
		31	B&W	11 40	33 33	
		32	R		33 54	
		33	Y		32 20	
		34	B&W	11 44	32 46	
		35	R		30 22	
		36	Y			
		37	B&W			
		38				
		39				
		40				

Cut In 290+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 89
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes FHB Date 11-4-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 8-53

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Do not extend notes this side of this line.

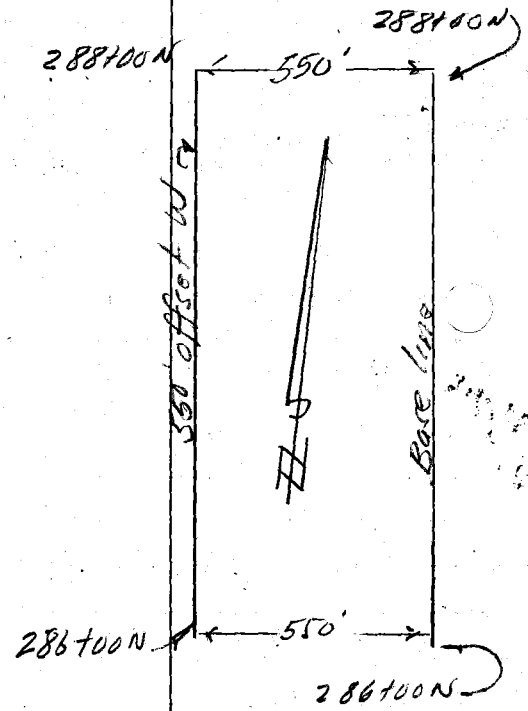
Cut IN 293+00 N

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
	1	B&W	12 10	72 30
	2	R		71 34
	3	Y		70 50
	4	B&W	12 14	69 47
	5	R		68 53
	6	Y		67° 33
	7	B&W	12 16	66° 31
	8	R		65° 06
	9	Y		63° 21
	10	B&W	12 19	62 06
	11	R		60° 41
	12	Y		58° 19
	13	B&W	12 21	56° 40
	14	R		54° 33
	15	Y		52° 29
	16	B&W	12 24	51° 11
	17	R		52 03
	18	Y		50 43
	19	B&W	12 26	49 28
	20	R		48° 05

Cut IN 293+00 N 286+00 N 550' W offset

288+00 N 550' W offset

Remarks



F. B. 1505 Pg. 90 Job No. 8417 Division No. Notes Red. Plotted Date No. Date X-Sec.
Survey of BEACH EROSION STUDIES Date Date
Survey by Blanchard Notes F.H.R. Notes Chkd. Checked Date
Indexed C. Johnson Date Date No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		290+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		18.6 17.1	17.6	1.8	15.8	1076	526 +550
22	B&W	11:33	18.0 16.2	16.8	1.7	15.1	1064	514
23	R		18.0 15.7	16.5	1.7	14.8	1040	490
24	Y		19.6 15.0	16.5	1.7	14.8	1031	481
25	B&W	11:36	16.0 15.0	15.3	1.7	13.6	999	449
26	R	37	15.6 13.4	14.1	1.7	12.4	958	408
27	Y	38	17.0 15.1	15.7	1.6	14.1	1000	450
28	B&W	11:39	17.1 14.2	15.2	1.6	13.6	984	434
29	R	40	15.0 13.0	13.7	1.6	12.1	943	393
30	Y	41	13.0 10.9	11.6	1.6	10.0	915	365
31	B&W	11:42	16.6 13.4	14.5	1.5	13.0	948	398
32	R		15.1 14.0	14.4	1.5	12.9	953	403
33	Y		14.0 11.0	12.0	1.5	10.5	930	380
34	B&W	11:45	15.4 11.2	12.6	1.5	11.1	936	386
35	R		13.8 9.8	11.1	1.5	9.6	902	352
36	Y		10.9 8.8	9.5	1.5	8.0		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1505 Pg. 91
No. ____ Date ____ Date ____ Survey of BEACH CROSSOW STUDIES
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by [illegible] Date 11/4/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Date ____

Boat 290+00 N

76L298 307 4-50

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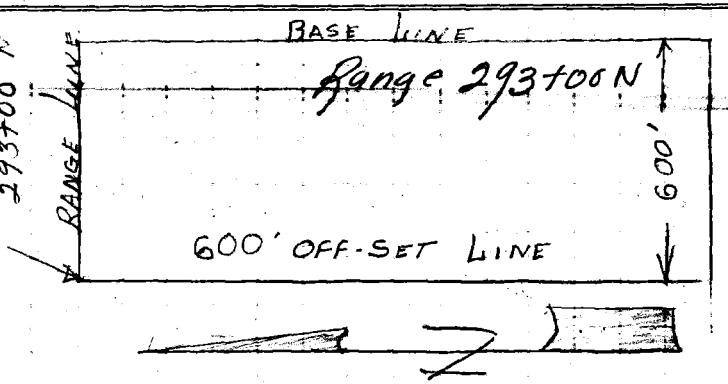
Profile No. ____ Plotted ____ Notes Red. ____ Date ____ Division No. 84.2 Job No. ____ Survey of Beach Erosion Study
Survey by Bradford Notes 11/4/53 Notes Chkd. ____ Date ____ Checked ____ Date 12-21-53
Indexed ____ Date ____ X-Sec. No. ____ F. B. 1505 Pg. 91

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		293+00N
#	Color	Time	Heads/ Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	12:08	31.0 29.0	29.7 ✓	1.2 ✓	28.5 ✓	2726 2160 + 566
2	R		29.9 27.5	28.3 ✓	1.2	27.1 ✓	2626 2060
3	Y		29.2 28.0	28.4 ✓	1.2	27.2 ✓	2528 1962
4	B&W	12:12	29.0 26.4	27.3 ✓	1.2	26.1 ✓	2420 1854
5	R		27.8 26.0	26.6 ✓	1.2	25.4 ✓	2342 1776
6	Y		27.2 25.0	25.7 ✓	1.2	24.5 ✓	2221 1655
7	B&W	12:14	27.0 25.0	25.7 ✓	1.2	24.5 ✓	2146 1580
8	R		25.6 24.0	24.5 ✓	1.2	23.3 ✓	2044 1478
9	Y		24.9 23.0	23.6 ✓	1.2	22.4 ✓	1936 1370
10	B&W	12:17	25.8 22.0	23.3 ✓	1.2	22.1 ✓	1866 1300
11	R		23.0 22.0	22.3 ✓	1.2	21.1 ✓	1787 1221
12	Y		23.0 21.0	21.7 ✓	1.1	20.6 ✓	1678 1112
13	B&W	12:19	22.2 21.0	21.4 ✓	1.1	20.3 ✓	1609 1043
14	R		21.9 20.1	20.7 ✓	1.1	19.6 ✓	1536 970
15	Y		20.1 18.9	19.3 ✓	1.1	18.2 ✓	1465 899
16	B&W	12:21	20.7 17.2	18.4 ✓	1.1	17.3 ✓	1422 856
17	R		20.4 18.0	18.8 ✓	1.1	17.7 ✓	1448 882
18	Y		19.0 18.0	18.3 ✓	1.1	17.2 ✓	1406 840
19	B&W	12:23	18.3 17.4	17.7 ✓	1.1 ✓	16.6 ✓	1372 806
20	R		17.7 15.5	16.1 ✓	1.1	15.0 ✓	1336 770

Boat 293+00N

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 93
No.	Date	Date	Survey of [illegible] Study			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes E.R.	Date 11/4/53	
No.	Date	Date	Map No.	Indexed	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	293+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00		
	22	Bw	12:25	90°00		
	23	R		90°00		
	24	Y		90°00		
	25	Bw	12:28	90°00		
	26	R		90°00		
	27	Y		90°00		
	28	Bw	12:30	90°00		
	29	R		90°00		
	30	Y		90°00		
	31	Bw	12:32	90°00		
	32	R		90°00		
	33	Y		90°00		
	34	Bw	12:35	90°00		
	35	R		90°00		
	36	Y				
	37	Bw				
	38	R				
	39	Y				
	40	Bw				

297+00 -N-

293+00 -N-

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76L298 307 8-53

F.B. 1505 Pg. 94 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed Date Date Date No.

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

761.298 307 8-53

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Do not extend notes this side of this line.

Cut In 293+00N

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
550 W offset	550 W. offset	21	Y		49° 43	
		22	B&W	1228	49°29	
		23	R		48°47	
		24	Y		48°01	
		25	B&W	1230	48°20	
		26	R		47°14	
		27	Y		47°34	
		28	B&W	1233	45°35	
		29	R		46 24	outside breakwater
286+00N	288+00N	30	Y		37 18	inside breakwater
		31	B&W	1236	38 31	boat out
		32	R		35 34	
		33	Y		34 22	
		34	B&W	1238	31 32	
		35	R		31 25	
		36	Y			
		37	B&W			
		38	R			
		39	Y			
		40				

Cut In 293+00N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Blanchard Notes FHB Date 11-4-53
No. Date Date Map No. Indexed S. C. Johnson Date

F. B. 1505 Pg. 95

F.B. 1505 PG. 96 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by Blanchard Notes 1 Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		293+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		20.0 17.5	18.3	1.1	17.2	1378	812 +566
22	B&W	12:25	20.3 16.7	17.9	1.1	16.8	1375	809
23	R		20.0 15.7	17.1	1.1	16.0	1356	790
24	Y		20.0 15.6	17.1	1.1	16.0	1335	769
25	B&W	12:29	20.0 15.6	17.1	1.1	16.0	1342	776
26	R		15.9 14.0	14.6	1.1	13.5	1314	748
27	Y		17.4 14.3	15.3	1.1	14.2	1321	755
28	B&W	12:30	13.8 12.0	12.6	1.1	11.5	1268	702
29	R		14.9 13.0	13.6	1.1	12.5	1288	722
30	Y		9.0 8.0	8.3	1.1	7.2 ~~9.2~~	1097	531
31	B&W	12:34	9.6 8.7	9.0	1.1	7.9	1116	550
32	R		10.2 9.3	9.6	1.1	8.5	1057	491
33	Y		9.2 8.0	8.4	1.1	7.3	1036	470
34	B&W	12:36	8.7 7.6	8.0	1.1	6.9	988	422
35	R		8.2 7.0	7.4	1.1	6.3	986	420

Venice Breakwater

Boat 293+00N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked Survey by Blanchard Date 11/6/53
No. Date 12-21-53 Date Map No. Date

F. S. 1505 PG. 97

F. B. 4508 Pg. 98 | Job No. 842 | Division No. | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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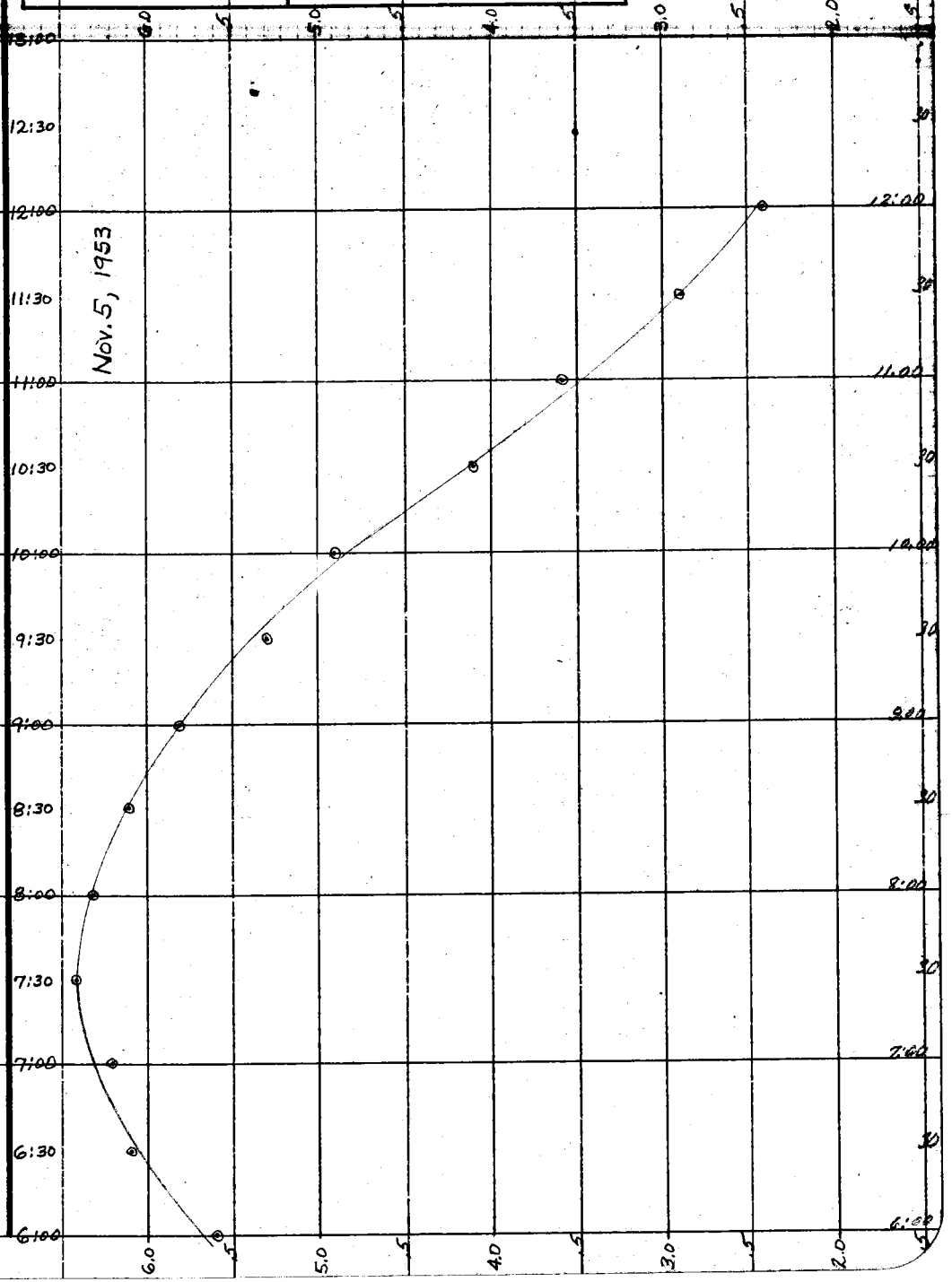
Do not extend notes this side of this line.

TSL298 507 4-50

Notes Ck'd by	Survey of TIDE GAGE
Map No.	W. O. 8412 Scope No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed

F. B. 1505 PG.



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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53

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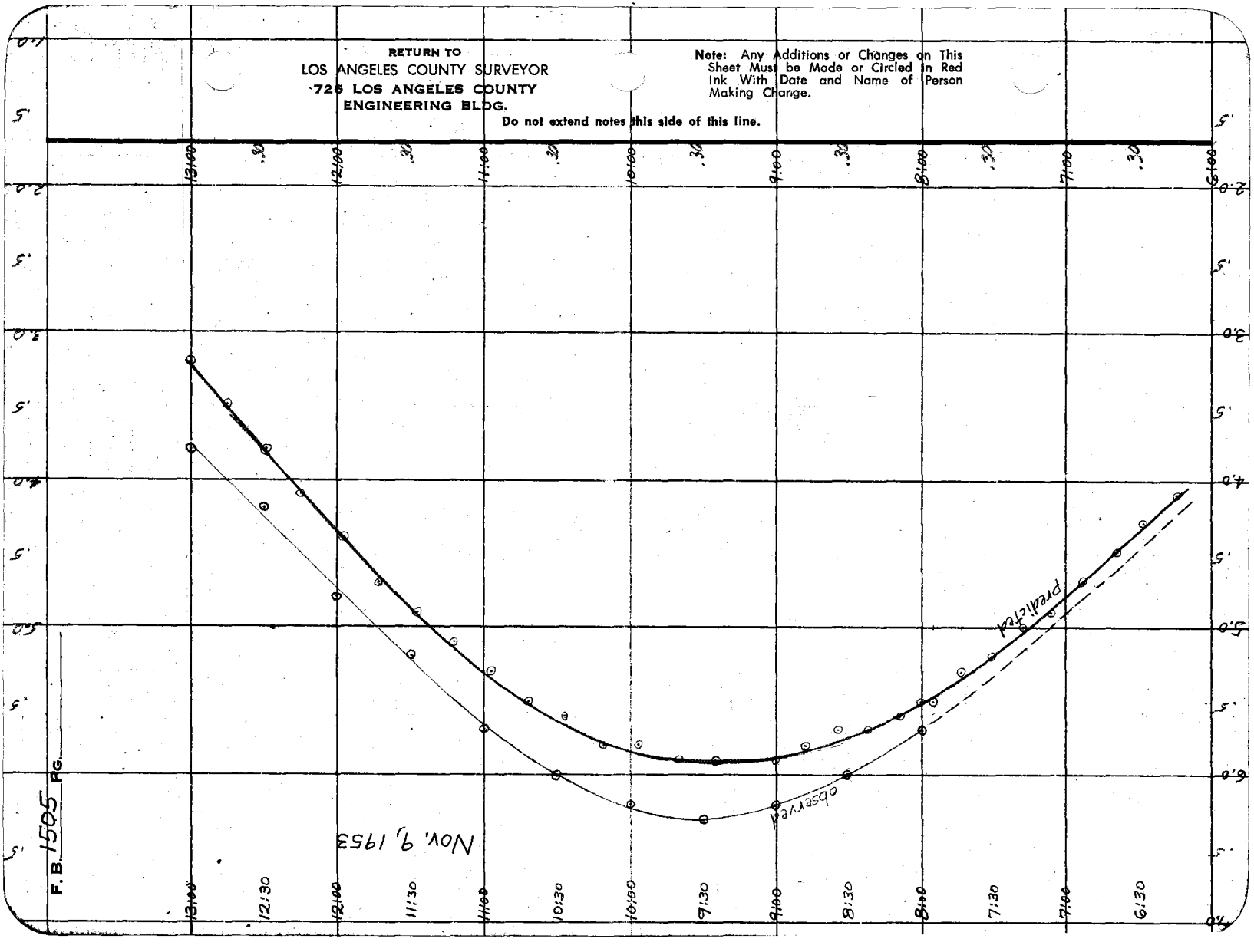

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed C. Johnson

F. B. Pg.

TIDE GAGE

STANDARD TIME

Nov ~~Oct~~ 5 1953

HOUR	TIDE
600	56
630	61
700	62
730	64
800	63
830	61
900	58
930	53
1000	49
1030	41
1100	36
1130	29
1200	24
1230	

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. _____ PG. _____

TIDE GAGE

STANDARD TIME NOV 9 1953

Hour	TIDE
600	
630	gage not working
700	
730	
800	57
830	60
900	62
930	63
1000	62
1030	60
1100	57
1130	52
1200	48
1230	42
1300 ~~1 00~~	38

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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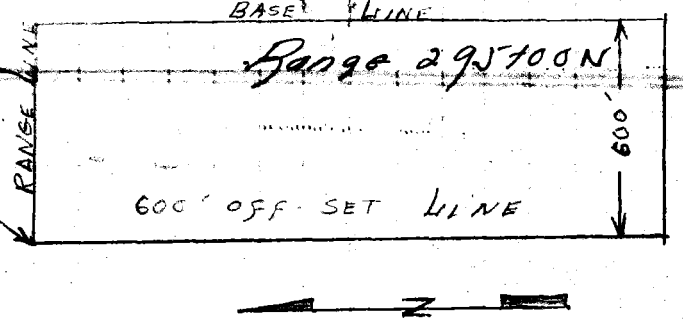
Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1505	Pg. 99
No.	Date	Date	Survey of Beach Erosion Study			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B	Notes ER.	Date 11/5/	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



Inst. Sight At	Station	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
	294+00 N	1	B-W	8.44	90°00	
		2	K		90°00	
		3			90°00	
		4	B-W	8.48	90°00	
		5	K		90°00	
		6			90°00	
		7	B-W	8.51	90°00	
		8	K		90°00	
		9			90°00	
		10	B-W	8.52	90°00	
		11	K		90°00	
		12			90°00	
		13	B-W	8.55	90°00	
		14	K		90°00	
		15			90°00	
		16	B-W	8.56	90°00	
		17	K		90°00	
		18			90°00	
		19	B-W	9.02	90°00	
		20	K		90°00	

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76L298 307 8-53

F. B. 1505 PG. 100 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed K. C. Johnson Date Date Date No.

Range 295+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	295+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
295+00 - N -	21			9		
	22	RW	9.05	[illegible]		
	23	R		[illegible]		
	24			[illegible]		
	25	RW	9.08	[illegible]		
	26	R		[illegible]		
	27	R		[illegible]		
	28			[illegible]		
	29					
	30	RW				
	31	R				
	32	R				
	33					
	34	RW				
	35	R				
	36					
	37	RW				
	38	R				
	39	R				
	40	RW				

76L298 307 8-53

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76L298 307 8-53

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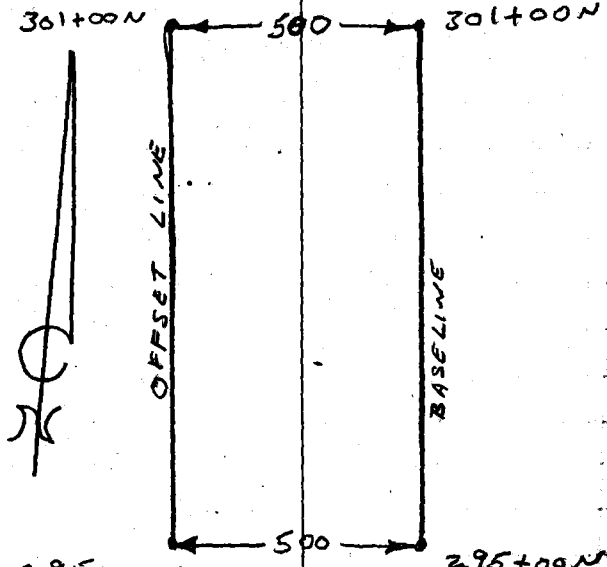
Do not extend notes this side of this line.

CUT-IN 295+00N

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
301+00N 500 off	295+00N 500 off	1	B&W	8:44	74°42	
		2	R		72°31	
		3	Y		71°39	
		4	B&W	8:48	70°39	
		5	R		69°11	
		6	Y		68°28	
		7	B&W	8:52	67°18	
		8	R		65°48	
		9	Y		64°07	
		10	B&W	8:55	62°45	
		11	R		61°16	
		12	Y		59°32	
		13	B&W	8:59	61°25	*
		14	R		59°42	
		15	Y		58°39	
		16	B&W	9:02	57°20	
		17	R		56°57	
		18	Y		55°58	
		19	B&W	9:05	55°12	* BOAT WENT BACK OUT
		20	R		54°09	



Cut In 295+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 11-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1505 Pg. 101

F.B. 1505 Pg. 102 Job No. 29B Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date Date No.

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

Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Cut-In
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		5[illegible]°17	
	22	B&W	9:12	53°22	
	23	R		5[illegible]°18 *	
	24	V		5[illegible]°16	

Cut In 295+00 N

295+00 N

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		295+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	8:45	36.0 32.6	33.7	6.0	27.7	2693	2193 +500
2	R		33.1 30.9	31.6	6.0	25.6	2405	1905
3	Y		33.3 30.0	31.1	5.9	25.2	2309	1809
4	B&W	8:49	31.6 29.3	30.1	5.9	24.2	2209	1709
5	R	:50	31.1 28.2	29.2	5.9	23.3	2078	1578
6	Y	:51	30.7 28.0	28.9	5.9	23.0	2020	1520
7	B&W	8:52	29.0 27.2	27.8	5.9	21.9	1934	1434
8	R		28.2 26.9	27.3	5.9	21.4	1835	1335
9	Y		29.2 25.0	26.4	5.9	20.5	1736	1236
10	B&W	8:56	27.8 24.7	25.7	5.8	19.9	1665	1165
11	R		27.6 25.0	25.9	5.8	20.1	1594	1094
12	Y		25.1 22.3	23.2	5.8	17.4	1520	1020
13	B&W	8:59	27.0 23.8	24.9	5.8	19.1	1601	1101
14	R		25.0 22.5	23.3	5.8	17.5	1527	1027
15	Y		24.0 22.0	22.7	5.8	16.9	1485	985
16	B&W	9:02	24.2 20.3	21.4	5.8	15.6	1435	935
17	R		23.8 20.8	21.8	5.8	16.0	1422	922
18	Y		22.0 20.6	21.1	5.7	15.4	1388	888
19	B&W	9:06	21.9 19.8	20.5	5.7	14.8	1363	863
20	R		22.0 19.0	20.0	5.7	14.3	1330	830

Boat 295+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 107
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. LCW Checked ____ Survey by FHB Notes ____ Date ____
No. ____ Date 12-21-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		295+00
Color Time	~~Meas. Depth~~	Bottom	Tide	Adj.	Depth	Remarks	
21 Y	22.8 18.9	20.2	5.7	14.5		1335 835	+500
22 B&W 9:12	20.8 16.0	17.6	5.7	11.9		1306 806	
23 R	23.0 18.2	19.8	5.6	14.2		1335 835	
24 Y	21.0 19.5	20.0	5.6	14.4		1334 834	

Boat 295+00 N

F. B. 1505 Pg. 104 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes 11/5/53 Notes Chkd. Checked
Indexed C. Johnson Date Date 12-21-53 Date No.

76L298 307 8-53

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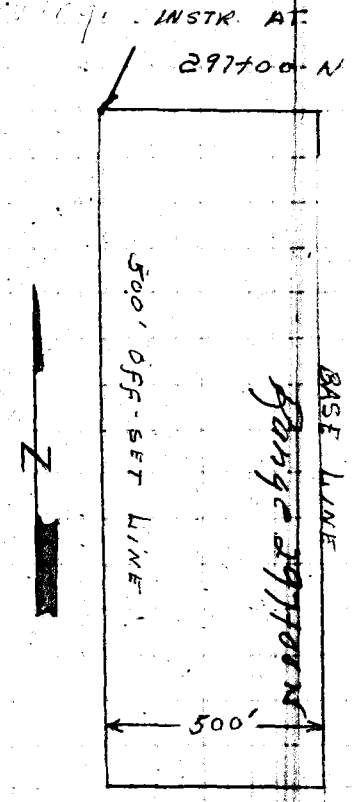
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range 297+00 -N-	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
[illegible]	[illegible]	1	B+W	9:33	90° [illegible]	Rough water & bad station	
		2	R		90° [illegible]	for observing.	
		3	Y				
		4	B+W	9:37	[illegible]		
		5	R				
		6	Y		[illegible]		
		7	B+W	9:[illegible]	[illegible]		
		8	R		[illegible]		
		9	Y				
		10	B+W	9:[illegible]	88° 36'		
		11	R		90° 00'		
		12	Y		90° [illegible]		
		13	B+W	9:59	[illegible] *		
		14	R		90° [illegible]		
		15	Y		90° [illegible]		
		16	B+W	10:[illegible]	90° [illegible]		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B+W	10:05	90° 00'		



Profile Notes Red. ____ Plotted ____ Job No. 9417 Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes J.C.G. Date 11-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 6505 Pg. 105

F.B. 1505 Pg. 106 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Study Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

Range 299+00 N

N 00+86 E

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1	B+W	10:25	[illegible]	
	2	R		90°00	
	3	Y		90°00	
	4	B+W	10:27	0 00	
	5	R		[illegible]	
	6	Y		90°00	
	7	B+W	10:30	[illegible]	
	8	R		[illegible]	
	9	Y		[illegible]	
	10	B+W	10:33	[illegible]	
	11	R		[illegible]	
	12	Y		[illegible]	
	13	B+W	10:36	90°00	
	14	R		[illegible]	
	15	Y		[illegible]	
	16	B+W	10:39	[illegible]	
	17	R		90°00	
	18	Y		90°00	
	19	B+W	10:43	90°00	
	20	R		[illegible]	

Range 299+00 N

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761.298 307 8-53

76L298 307 8-53

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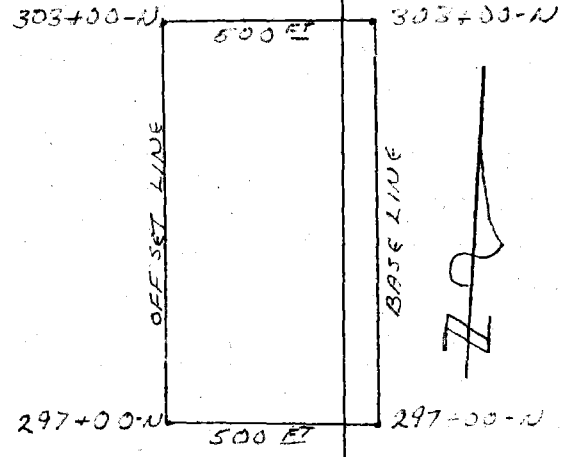
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut-In	297+00-N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
303+00-N-AT 500' OFFSET	297+00-N-AT 500 FT OFFSET	1	B&W	9:33	71°34		
		2	R		73°13 *		
		3	Y		71°37		
		4	B&W	9:37	70°08		
		5	R		68°59		
		6	Y		67°37		
		7	B&W	9:41	65°50		
		8	R		63°14		
		9	Y		61°00		
		* 10	B&W	9:59	58°18		
		11	R		55°31		
		12	Y		54°48		
		13	B&W	10:03	54°41		
		14	R		54°08		
		15	Y		54°20		
		16	B&W	10:06	52°14		



* BOAT WENT BACK OUT

Cut In 297+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8-412 Division No. ____ F. B. 15053 Pg. 107
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes JRO Date 11-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 1505 Pg. 108 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

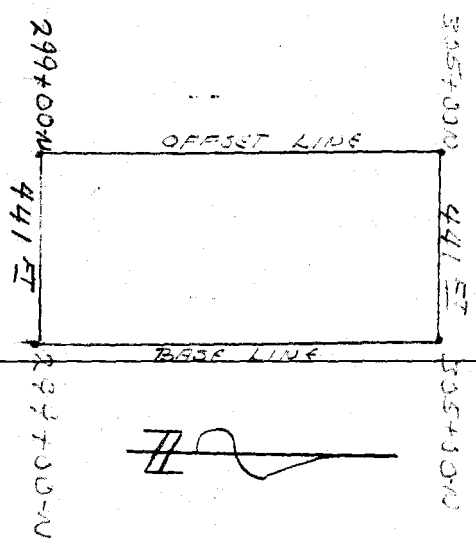
Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

305+00-N - AT 441 FT OFFSET

Cut IN 299+00 N

299+00-N - AT 441 FT OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight On					
#	Color	Time	Hor. Ang.		
1	B&W	10:23	72°55		CUT-IN
2	R		64°10		
3	Y		68°12		
4	B&W	10:27	67°08		
5	R		66°02		
6	Y		63°59		
7	B&W	10:30	62°16		
8	R		59°42		
9	Y		57°43		
10	B&W	10:33	56°41		
11	R		53°50		
12	Y		51°43		
13	B&W	10:36	50°45		
14	R		48°33		
15	Y		46°43		
16	B&W	10:40	43°34		
17	R		41°56		
18	Y		39°17		
19	B&W	10:42	38°14		
20	R		37°04		



76L298 307 8-53

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Do not extend notes this side of this line.

74L298 307 4-50

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	BOAT		297+00 N
Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks Seaward side of
1 B&W	9:33	31.1 / 29.0	29.7 ✓	5.3 ✓	24.4 ✓	2300	1800 breakwater
2 R		32.6 / 31.0	31.5 ✓	5.3	26.2 ✓	2489	1989
3 Y		31.0 / 29.0	29.7 ✓	5.3	24.4 ✓	2305	1805
4 B&W	9:37	30.4 / 29.0	29.5 ✓	5.3	24.2 ✓	2160	1660
5 R		29.5 / 28.0	28.5 ✓	5.3	23.2 ✓	2061	1561
6 Y		28.4 / 27.0	27.5 ✓	5.2	22.3 ✓	1957	1457
7 B&W	9:41	28.7 / 27.0	27.6 ✓	5.2	22.4 ✓	1837	1337
8 R		26.8 / 25.1	25.7 ✓	5.1	20.6 ✓	1689	1189
9 Y		25.8 / 24.0	24.6 ✓	5.0	19.6 ✓	1582	1082
10 B&W	9:59	24.0 / 21.8	22.5 ✓	4.9	17.6 ✓	1482	982
11 R		21.5 / 20.0	20.5 ✓	4.8	15.7 ✓	1374	874
12 Y		21.0 / 19.9	20.3 ✓	4.8	15.5 ✓	1350	850
13 B&W	10:03	21.0 / 18.7	19.5 ✓	4.8	14.7 ✓	1347	847
14 R	04	19.2 / 17.0	17.7 ✓	4.7	13.0 ✓	1330	830
15 Y	05	19.2 / 17.7	17.9 ✓	4.7	13.2 ✓	1336	836
16 B&W	10:06	16.9 / 15.0	15.6 ✓	4.7 ✓	10.9 ✓	1275	775

500' offset added to cut-in calculations

Boat 297+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Surveys
Notes Chk. ____ Checked ____ Survey by RHB Date 1-53
No. ____ Date 12-24-53 Date ____ Map No. ____ Note Taker J. G. Johnson Date ____

F.B. 1505 Pg. 109

76L298 307 4-50

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

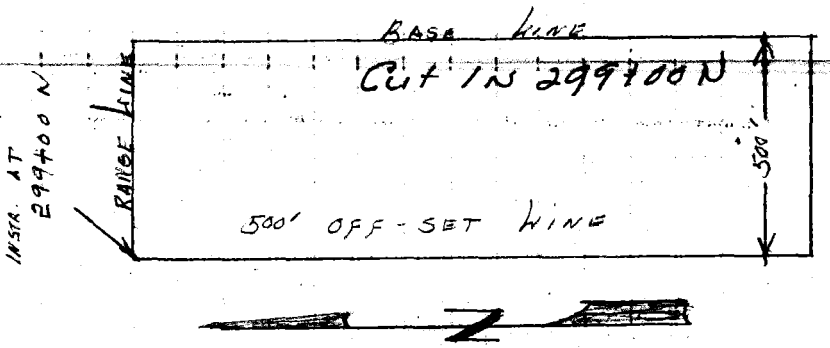
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		299+00
#	Color	Time	Meas. Depth	Bottom #	Tide	Adj. Depth	Remarks	
1	B&W	10:24	31.0 29.4	29.9	4.2	25.7	2393	1952 +441
2	R		27.5 26.5	26.8	4.2	22.6	2032	1591
3	Y		27.5 26.0	26.5	4.2	22.3	1941	1500
4	B&W	10:28	27.3 25.1	25.8	4.2	21.6	1864	1423
5	R		26.8 25.0	25.6	4.1	21.5	1791	1350
6	Y		26.1 23.8	24.6	4.1	20.5	1670	1229
7	B&W	10:31	25.4 23.5	24.1	4.1	20.0	1607	1166
8	R		24.2 22.0	22.7	4.1	18.6	1469	1028
9	Y		23.0 20.2	21.1	4.1	17.0	1390	949
10	B&W	10:33	22.0 20.3	20.9	4.1	16.8	1354	913
11	R		20.2 19.0	19.4	4.0	15.4	1262	821
12	Y		18.8 16.7	17.4	4.0	13.4	1201	760
13	B&W	10:36	18.1 16.5	17.0	4.0	13.0	1175	734
14	R		17.6 14.5	15.5	4.0	11.5	1120	679
15	Y		15.1 13.8	14.2	3.9	10.3	1067	626
16	B&W	10:40	14.0 11.9	12.6	3.9	8.7	1012	571
17	R		13.4 12.0	12.5	3.9	8.6	980	539
18	Y		13.1 11.0	11.7	3.9	7.8	932	491
19	B&W	10:43	12.0 10.8	Void			913	472
20	R		13.0 10.8	11.5	3.8	7.7	894	453

Boat 299+00 N

F. B. 1505 Pg. 110 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes 11/5/53 Notes Chkd. Checked
Indexed R. C. Johnson Date Date 12-21-53 Date No.

Profile	Notes Red.	Plotted	Job No. [illegible]	Division No.	F. B. 1505	Pg.
No.	Date	Date	Survey of [illegible]			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes E.R.	Date 11-5-6[illegible]	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



299+00 N

RANGE

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
	21	Y		[illegible]	
	22	B+W	10:44	[illegible]	
	23	R		[illegible]	
	24	Y		[illegible]	

295+00 N

299+00 N

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

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76L298 307 8-53

F.B. 1505 Pg. 112 Job No. 84-2 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	301+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
301+00 N	1	Bow	11:01	[illegible]		
	2	R		[illegible]		
	3	[illegible]		[illegible]		
	4	[illegible]	11:06	[illegible]		
	5	[illegible]		[illegible]		
	6	[illegible]		[illegible]		
	7	[illegible]	11:08	[illegible]		
	8	[illegible]		[illegible]		
	9	[illegible]		[illegible]		
	10	[illegible]	11:11	[illegible]		
	11	[illegible]		[illegible]		
	12	[illegible]		[illegible]		
	13	[illegible]	11:13	[illegible]		
	14	[illegible]		[illegible]		
	15	[illegible]		[illegible]		
	16	[illegible]	11:15	[illegible]		
	17	[illegible]		[illegible]		
	18	[illegible]		[illegible]		
	19	[illegible]	11:17	[illegible]		
	20	[illegible]		[illegible]		

Range 301+00 N

N 00+108

N 00+808

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	299+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		35°17		
	22	[illegible]	[illegible]	[illegible]		
	23	R		31°56		
	[illegible]	Y		30°22		

Cut In 299+00 N

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. ____ F. B. 1505 Pg. 5/113
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes JRO Date 11-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1505 Pg. 110 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

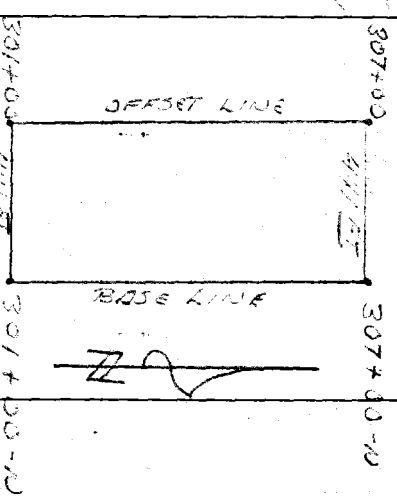
Survey of BEACH EROSION STUDY | Date | Date | No.

Survey by E.M.B. | Notes J.R.O. | Notes Chkd. | Checked | X-Sec.

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

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
Cut IN 301+00N						
307+00-N - [illegible]						
30 +00-N - [illegible]						

Inst. Sight OR # Color Time



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761.298 307 8-53

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		299+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		13.0 10.3	11.2 ✓	3.8	7.4 ✓	866	425 + 441
22	BEW	10:44	12.6 9.8	10.7 ✓	3.8 ✓	6.9 ✓	848	407
23	R		12.0 9.0	10.0 ✓	3.8	6.2 ✓	815	374
24	Y		10.0 8.0	8.7 ✓	3.8	4.9 ✓	793	352

Boat 299+00

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 115
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by ____ Notes ____ Date 11/5/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		301+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	11:02	30.0 28.0	28.7	3.4	25.3	2293	1852 +441
2	R		28.7 27.2	27.7	3.4	24.3	2100	1659
3	Y		27.8 25.5	26.3	3.4	22.9	1996	1555
4	B&W	11:06	26.8 25.1	25.7	3.4	22.3	1905	1464
5	R		26.0 25.0	25.3	3.3	22.0	1844	1403
6	Y		25.5 24.5	24.8	3.3	21.5	1784	1343
7	B&W	11:09	25.3 24.0	24.4	3.3	21.1	1727	1286
8	R	:10	24.7 23.0	23.6	3.3	20.3	1625	1184
9	Y	:11	23.3 22.4 .3	22.7	3.2	19.5	1561	1120
10	B&W	11:12	23.1 21.6	22.1	3.2	18.9	1495	1054
11	R		22.7 21.0	21.6	3.2	18.4	1411	970
12	Y		21.1 19.9	20.3	3.2	17.1	1331	890
13	B&W	11:14	20.9 19.0	19.6	3.2	16.4	1268	827
14	R		19.0 17.9	18.3	3.2	15.1	1214	773
15	Y		18.0 17.0	17.3	3.2	14.1	1161	720
16	B&W	11:16	17.7 16.0	16.6	3.1	13.5	1088	647
17	R		16.1 14.9	15.3	3.1	12.2	1052	611
18	Y		15.7 14.2	14.7	3.1	11.6	1036	595
19	B&W	11:18	16.5 13.0	14.2	3.1	11.1	1033	592
20	R		15.6 12.8	13.7	3.1	10.6	983	542

441' offset added to cut-in calculations

Boat 301+00N

F. B. 1505 Pg. 116

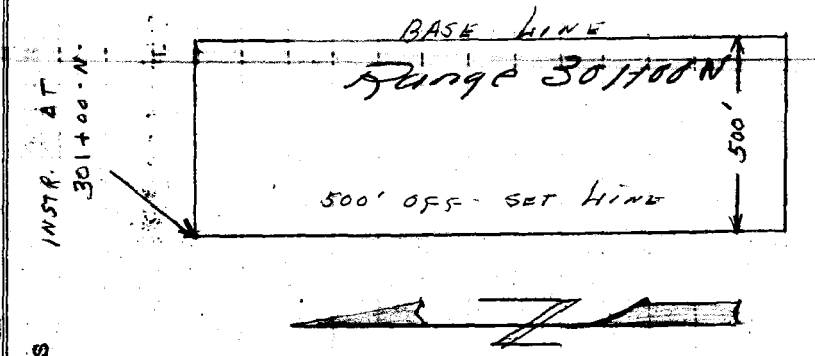
Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by EHB Notes 11/5/53 Notes Chkd. Checked X-Sec.

Indexed [illegible] Date Date 12-21-53 Date No.

Profile	Notes Red.	Plotted	Job No. 0/17	Division No.	F. B. 1505 Pg. 117
No.	Date	Date	Survey of Beach [illegible]		
X-Sec.	Notes Chkd.	Checked	Survey by [illegible]	Notes JCG	Date 11-3-53
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Range	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	21	Y		90° 00		
	22	[illegible]		[illegible]		
	23	Y		[illegible]		
	24	[illegible]		[illegible]		
	25	[illegible]		[illegible]		
	26	R		[illegible]		
	27	Y		[illegible]		
	28	[illegible]		[illegible]		
	29	[illegible]		[illegible]		
298+00						
301+00						

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

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76L298 307 8-53

F. B. 1505 Pg. 118 | Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

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

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN	301+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		39°29		
	22	B&W	1:19	37°37		
	23	R		37°26		
	24	Y		35°51		
	25	B&W	1:20	33°50		
	26	R		32°52		
	27	Y		31°30		
	28	B&W	1:21	30 04		
	29	R		27 28		
	30	Y		25 50		

Cut In 301+00 N

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 15505 Pg. 119
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes JRB Date 11-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed A. C. Johnson Date ____

F.B. 1505 Pg. 120 Job No. [illegible] Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
30 +00-0 AT 441 FT OFFSET						
30 +00-0 AT 441 FT OFFSET						

76L298 307 8-53

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76L298 307 4-50

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		301+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		13.1 12.2	12.5	3.1	9.4	935	494 +441
22	B&W	11:19	14.8 11.1	12.3	3.1	9.2	920	479
23	R		13.5 11.9	12.4	3.1	9.3	900	459
24	Y		13.2 11.5	12.1	3.1	9.0	876	435
25	B&W	11:20	13.3 11.2	11.9	3.1	8.8	843	402
26	R		13.0 10.4	11.3	3.1	8.2	829	388
27	Y		12.5 10.0	10.8	3.1	7.7	811	370
28	B&W	11:21	11.8 9.3	10.1	3.1	7.0	788	347
29	R		10.1 9.0	9.4	3.0	6.4	753	312
30	Y		9.8 8.0	8.6	3.0	5.6	745	304

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 121
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. Lowe Checked ____ Survey by EHB Notes ____ Date 11/5/53
Date 12-21-53 Date ____ Map No. ____ Title of John Date ____

Boat 301+00N

F. B. 1505 Pg. 122

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

Survey of _____ Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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

76L298 307 10-51

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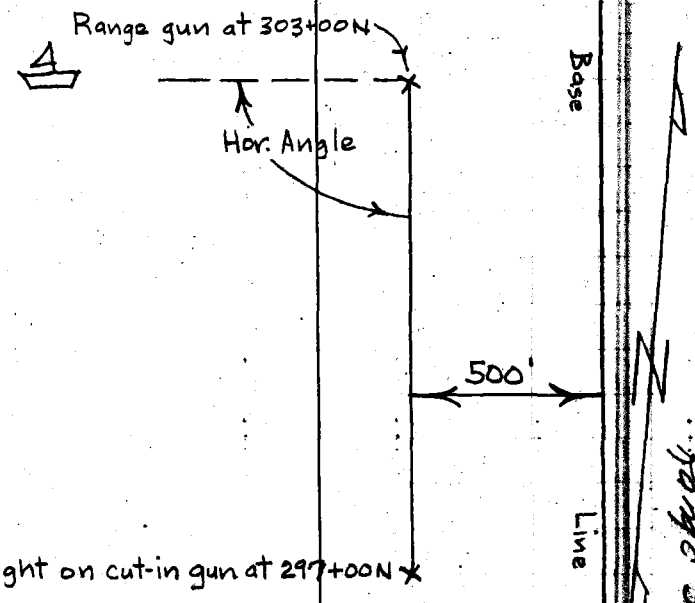
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	303+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
303+00N (500' offset Line)	297+00N (500' offset Line)	1	B&W	6:21	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	6:26	90°00'		
		5	R		90°14'		
		6	Y		90°00'		
		7	B&W	6:29	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	6:32	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	6:34	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	6:37	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	6:39	90°00'		
		20	R		90°00'		



Range 303+00N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 123

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H. Blanchard Notes CEM Date Nov. 9, 1953

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

76L298 307 10-51

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ENGINEERING BLDG.

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F.B. 1505 Pg. 124 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile No. ____

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

Survey by Blanchard Notes CEM 11/9/53 Notes Chkd. ____ Checked ____

Indexed E. C. Johnson Date ____ Date ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	303+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	BEW	6:40	90°00'		
303+00N	297+00N	23	R		90°00'		
		24	Y		90°00'		
		25	BEW	6:42	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
Range 303+00N							

76L298 307 10-51

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726 LOS ANGELES COUNTY
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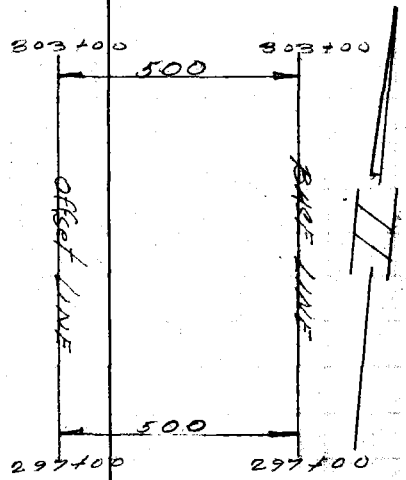
CUT IN 303+00

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
297+00	303+00	1	R+W	6 20	73° 38
		2	R		72° 05
		3	Y		69° 06
		4	R+W	6 25	64° 07
		* 5	R		57° 28
		6	Y		54° 23
		7	R+W	6 28	51° 47
		8	R		48° 40
		9	Y		45° 43
		10	R+W	6 30	43° 23
		11	R		41° 07
		12	Y		38° 37
		13	R+W	6 34	36° 11
		14	R		34° 21
		15	Y		31° 06
		16	R+W	6 36	28° 55
		17	R		26° 00
		18	Y		25° 25
		19	R+W	6 38	24° 37
		20	R		24° 28

Remarks



Cut In 303+00 N

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 125

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

Notes Chkd. ____ Checked ____ Survey by L. H. BLANCHARD Date 11/9/53

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

76L298 307 10-51

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. Notes Date

Survey of
Survey by L. C. Johnson
Indexed

F.B. 1505 Pg. 26

STATION	B. S.	H. I.	F. S.	ELEV.		
						CUT IN 303+00
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		23° 21		
	22	R+W	6 40	22° 14		
	23	R		21° 55		
297+00	24	Y		20° 45		
0	25	R+W	6 41	19° 42		
303+00	26	R		19° 21		
3	27	Y		19° 17		
Cut In 303+00 N						

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT — 303+00 — W	
# Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
		32.6				
1 B+W	6:21	31.0	31.5	4.3	27.2	2543 2043 +500
		32.5				
2 R		29.8	30.7	4.4	26.3	2355 1855
		29.3				
3 Y		28.0	28.4	4.4	24.0	2071 1571
		26.1				
4 B+W	6:25	25.5	25.7	4.4	21.3	1737 1237
		25.5				
5 R		23.8	24.4	4.4	20.0	1448 948
		24.3				
6 Y		22.8	22.8	4.4	18.4	1338 838
		22.8				
7 B+W	6:29	21.9	22.2	4.5	17.7	1262 762
		22.3				
8 R	30	20.5	21.1	4.5	16.6	1182 682
		21.2				
9 Y	31	18.8	19.6	4.5	15.1	1115 615
		20.2				
10 B+W	6:32	17.3	18.3	4.5	13.8	1067 567
		18.8				
11 R		16.7	17.4	4.5	12.9	1023 523
		17.8				
12 Y		16.0	16.6	4.5	12.1	979 479
		16.1				
13 B+W	6:34	15.8	15.9	4.5	11.4	939 439
		16.0				
14 R	35	14.8	15.2	4.5	10.7	910 410
		15.0				
15 Y	36	14.1	14.4	4.6	9.8	862 362
		15.7				
16 B+W	6:39	13.5	14.2	4.6	9.6	831 331
		13.6				
17 R		13.0	13.2	4.6	8.6	798 298
		12.7				
18 Y		12.0	12.2	4.6	7.6	785 285
		14.8				
19 B+W	6:39	11.8	12.5	4.6	7.9	775 275
		13.1				
20 R		13.0	12.4	4.6	7.8	773 273

500' offset added to cut-in calculations

Boat 303+00 W

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1585 Pg. ____
No. ____ Date ____ Date ____ Survey at BEACH & ELEVEN STREETS
Notes Chk. Date 12-21-53 Checked ____ Date ____ Survey by F.H.A. & C. Date ____ Map ____
No. ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		303+00 -N-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		13.9 10.5	11.6	4.6	7.0	759	259 + 500
22	B+W	6:40	13.0 10.0	11.0	4.6	6.4	745	245
23	R		12.2 10.0	10.7	4.6	6.1	741	241
24	Y		10.9 9.2	9.8	4.6	5.2	727	227
25	B+W	6:42	10.0 8.1	8.7	4.6	4.1	715	215
26	R		9.0 8.3	8.5	4.7	3.8	711	211
27	Y		11.0 8.0	9.0	4.7	4.3	710	210
28	B+W							
29	R							
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							

Boat 303+00 N

Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed R. Johnson Date 12-21-53 Date No.

1505 Pg. 128

76L298 307 10-51

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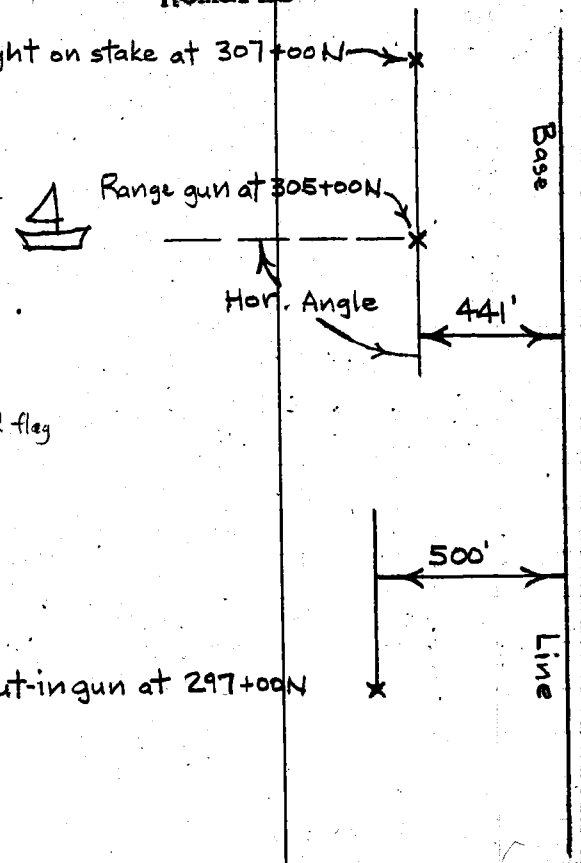
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	305+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
305+00N (441' offset Line)	307+00N (441' offset Line - Plunged telescope)	1	B&W	6:54	90°00'	Sight on stake at 307+00N
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	6:58	90°00'	Range gun at 305+00N
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	7:02	90°00'	Hor. Angle
		8	R		90°00'	
		9	Y		90°00'	red flag
		10	B&W	7:05	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	7:07	90°00'	
		14	R		90°00'	
		15	Y		90°00'	Cut-in gun at 297+00N
		16	B&W	7:09	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	7:11	90°00'	
		20	R		90°21'	



Range 305+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 124

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

X-Sec. Notes Chkd ____ Checked ____ Survey by FHB Notes CEM Date Nov. 9, 1953

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

F.B. 1505 PG. 130 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

Survey by Blanchard | Notes CEM 11/9/53 | Notes Chkd. | Checked | X-Sec.

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

Range 305+00 N

305+00 N

Inst. Sight At OH

307+00 N (Plunged telescope)

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	Remarks
	#	Color	Time	Hor. Ang.		
	21	Y		90°00'		
	22	B&W	7:14	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	7:16	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B&W	7:18	90°00'		
					305+00 N	

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76L298 307 10-51

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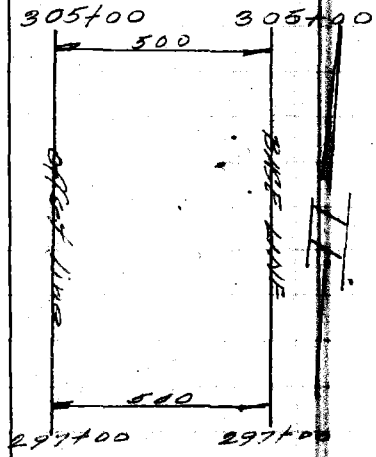
3

CUT IN 305+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
297+00	305+00	1	R+W	6 54	70° 12	
		2	R		66° 49	
		3	Y		61° 46	
		4	R+W	6 58	59° 29	
		5	R		56° 44	
		6	Y		53° 34	
		7	R+W	7 02	47° 49	
		8	R		45° 37	
		9	Y		43° 45	
		10	R+W	7 04	41° 31	
		11	R		39° 05	
		12	Y		36° 16	
		13	R+W	7 07	32° 46	
		14	R		30° 31	
		15	Y		27° 57	
		16	R+W	7 09	25° 59	
		17	R		24° 37	
		18	Y		22° 16	
		19	R+W	7 10	19° 53	
		* 20	R		19° 13	



Cut IN 305+00 N

Profile Notes Red ____ Plotted ____ Job No. 5412 Division No. ____ F.B. 1505 Pg. 131

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD JS Date 11/9/53

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

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		4 305+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
297+00	305+00	21	Y		17° 22		
		22	R+W	7 13	16° 30		
		23	R		15° 24		
		24	Y		14° 50		
		25	R+W	7 15	13° 37		
		26	R		14° 10		
		27	Y		12° 49		
		28	R+W	7 17	12° 54		

Cut In 305+00 N

F.B. 1505 PG. 132

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

Survey of ____ Date ____ Date ____ No. ____

Survey K. C. Johnson Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat		305+00	
#	Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks	
1.	B+W	6:55	35.0 / 32.8	33.5 / 35.5	4.8	28.7 / 30.7	2722	2222	+500
2.	R		32.0 / 30.7	31.1	4.8	26.3	2368	1868	
3	Y		29.4 / 28.0	28.5	4.9	23.6	1990	1490	
4	B+W	6:58	29.1 / 26.6	27.4	4.9	22.5	1857	1357	
5	R		27.9 / 25.8	26.5	4.9	21.6	1719	1219	
6	Y		27.0 / 24.9	25.6	4.9	20.7	1584	1084	
7	B+W	7:02	23.0 / 23.0	23.7	4.9	18.8	1383	883	
8	R	:03	25.0 / 22.0	23.0	5.0	18.0	1317	817	
9	Y	:04	23.5 / 21.7	22.3	5.0	17.3	1266	766	
10	B+W	7:05	23.1 / 21.1	21.8	5.0	16.8	1208	708	
11	R		23.0 / 21.0	21.7	5.0	16.7	1150	650	
12	Y		21.8 / 20.0	20.6	5.0	15.6	1087	587	
13	B+W	7:09	20.0 / 18.7	19.1	5.0	14.1	1015	515	
14	R	:08	19.7 / 17.0	17.9	5.0	12.9	972	472	
15	Y	:09	18.1 / 16.9	17.3	5.0	12.3	924	424	
16	B+W	7:10	18.0 / 16.0	16.7	5.1	11.6	890	390	
17	R		16.8 / 15.7	16.1	5.1	11.0	866	366	
18	Y		16.2 / 14.8	15.3	5.1	10.2	828	328	
19	B+W	7:12	16.5 / 12.8	14.0	5.1	8.9	789	289	
20	R		15.0 / 12.9	13.6	5.1	8.5	779	279	

500' offset added to cut-in calculations

Boat 305+00 N.

Profile Notes Red. No. Date Plotted Date Job No. 8412 Division No. Sec. Notes Chkd. Date Checked Survey of REACH 15 ROSEMOND STREET Survey by F.H.B. G. Jim F.R. Date 11/12 Map No. Date Date F.B. 1502

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT -	305+00 -N-

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks	
21	Y		14.0 / 11.8	12.5	5.1	7.4	750	250 +500
22	B+W	7:13	13.0 / 11.7	12.1	5.1	7.0	737	237
23	R		12.6 / 10.7	11.3	5.1	6.2	720	220
24	Y		12.1 / 11.0	11.4	5.1	6.3	712	212
25	B+W	7:16	10.9 / 9.8	10.2	5.1	5.1	694	194
26	R		11.3 / 9.5	10.1	5.1	5.0	702	202
27	Y		11.0 / 9.0	9.7	5.2	4.5	682	182
28	B+W	7:18	11.0 / 8.3	9.2	5.2	4.0	683	183
29	R							
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

Boat 305+00 N

Profile
Plotted
Date
No.
X-Sec.
Checked
Date
No.
Notes Red.
Date
Notes Chkd. RAW
Date 12-21-53
Division No.
Job No. 8412
Survey of BEACH EROSION STUDIES
Survey by F.H.B.
Indexed
Notes
Date
Pg. 130
7505

76L298 307 10-51

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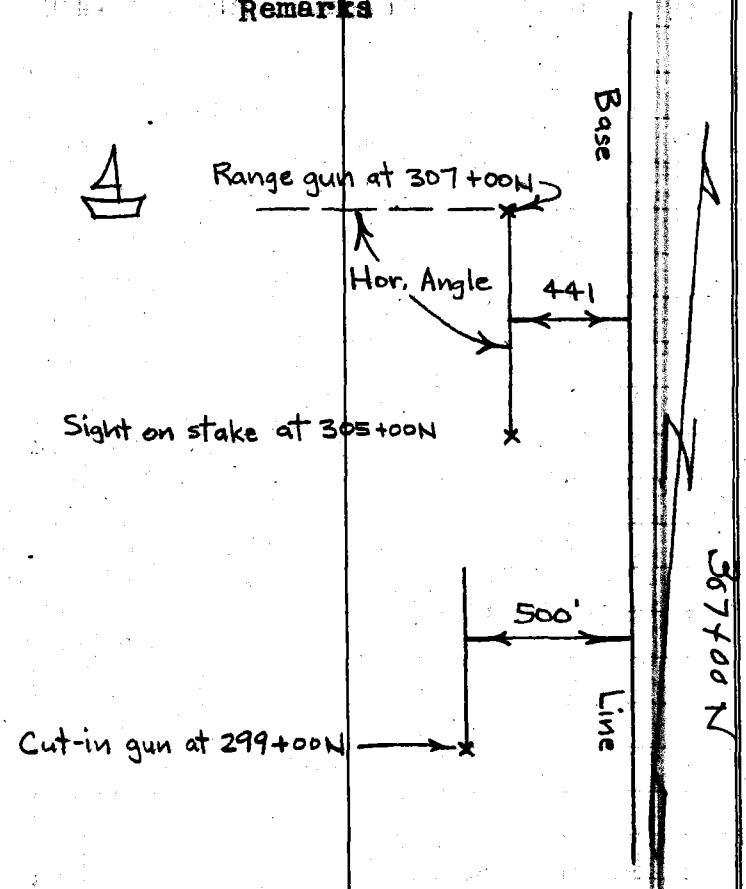
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Range 307+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
307+00N	305+00N (441' offset Line)	1	B&W	7:30	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	7:33	[illegible]	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	7:37	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	7:41	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	7:43	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	7:45	90°00'	
		17	Y		90°00'	
		18	Y		90°00'	
		19	B&W	7:48	90°00'	
		20	R		90°00'	



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

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

Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes C.M. Date 11-9-53

Map No. ____ Date ____ Indexed ____ Date ____

F.B. 1505 Pg. 35

F.B. 1505 PG. 136 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by EHB Notes CEM 11/9/53 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

Range 307+00 N

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	307+00 N
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
307+00 N	21	Y		90° 00'		
	22	B&W	7:50	90° 00'		
	23	R		90° 33'		
	24	Y		90° 00'		
305+00 N	25	B&W	7:52	90° 00'		
	26	R		90° 00'		

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761.298 307 10-51

76L298 307 4-50

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5

STATION	B. S.	H. I.	F. S.	ELEV.	CUT IN 307+00
Inst. Sight	#	Color	Time	Hor. Ang.	Remarks
299+00 / 307+00	1	R+W	7 30	68° 35	
	2	R		66° 43	Note
	3	Y		64° 09	Inst on 500 foot offset
	4	R+W	7 33	61° 34	
	5	R		57° 35	
	6	Y		54° 20	
	7	R+W	7 37	51° 56	
	8	R		49° 27	
	9	Y		45° 33	
	10	R+W	7 40	43° 05	
	11	R		39° 46	
	12	Y		36° 11	
	13	R+W	7 42	33° 03	
	14	R		29° 39	
	15	Y		26° 07	
	16	R+W	7 45	23° 12	
	17	R		20° 57	
	18	Y		18° 37	
	19	R+W	7 47	17° 50	
	20	R		17° 07	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 137
No. ____ Date ____ Date ____ Survey of BENCH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Notes ____ Date 11/9/53
No. ____ Date ____ Date ____ Map No. ____ Date ____

CUT IN 307+00 N

B. 1505 Pg. 138 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

Survey by [redacted] C. Johnson | Notes | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

Cut 307+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH					
299+00					
307+00					
# Color Time Hor. Ang.					
21					
22					
23					
24					
25					
26					
					307+00

76L298 307 4-50

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76L298 307 4-60

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Profile No. ____ Date ____ Plotted ____ Job No. 8412 Division No. ____
Sec. ____ Notes Chkd. ____ Date ____ Checked ____ Survey of Beach Erosion Studies
Notes Red ____ Date 12-21-59 Date ____ Map No. ____ Survey by Blanchard, Hunt, Fox, Inc. Date 11/13/63
Date ____ Date ____ Date ____

STATION #	Color	B. S. Time	H. I. Neg. Depth	F. S. Bottom	ELEV. Tide	BOAT Adj. Depth	307+00 -1- Remarks	
1.	B+W	7:30	34.0 30.8	31.9	5.3	26.6	2539	2039 +500
2	R		32.5 30.5	31.2	5.3	25.9	2359	1859
3.	Y		31.0 28.9	29.6	5.4	24.2	2151	1651
4.	B+W	7:34	30.0 28.0	28.7	5.4	23.3	1977	1477
5	R		28.1 26.5	27.0	5.4	21.6	1760	1260
6	Y		27.4 25.2	25.9	5.4	20.5	1614	1114
7	B+W	7:37	26.0 24.5	25.0	5.4	19.6	1516	1016
8	R		25.8 24.0	24.6	5.4	19.2	1435	935
9	Y		24.7 23.5	23.9	5.4	18.5	1315	815
10	B+W	7:40	24.0 23.0	23.3	5.5	17.8	1248	748
11	R		24.3 22.0	22.8	5.5	17.3	1166	666
12	Y		22.3 21.2	21.6	5.5	16.1	1085	585
13	B+W	7:43	21.8 20.2	20.7	5.5	15.2	1020	520
14	R		20.2 18.5	19.1	5.5	13.6	955	455
15	Y		17.5 16.9	17.1	5.5	11.6	892	392
16	B+W	7:45	17.6 15.8	16.4	5.5	10.9	843	343
17	R		16.7 15.4	15.8	5.5	10.3	806	306
18	Y		16.9 14.0	15.0	5.5	9.5	769	269
19	B+W	7:47	16.1 14.0	14.7	5.5	9.2	757	257
20	R	48	13.7 13.5	14.4	5.5	8.9	746	246

Boat 307+00 N

F.B. 1701 PG. 137

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		307+00 - N -
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y	49	15.1 12.9	13.6	5.6	8.0	740	240 +500
22	B+W	7:50	14.0 11.9	12.6	5.6	7.0	714	214
23	R		12.8 11.3	11.8	5.6	6.2	704	204
24	Y		12.7 10.0	10.9	5.6	5.3	689	189
25	B+W	7:52	10.8 9.3	9.8	5.7	4.1	679	179
26	R		9.8 8.2	8.7	5.7	3.0	662	162
27	Y							
28	B+W							
29	R							
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

Boat 307+00 N

F. B. 1505 Pg. 740 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes Notes Chkd. Checked
Indexed R. C. Johnson Date Date 12-21-53 Date No.

76L298 307 10-51

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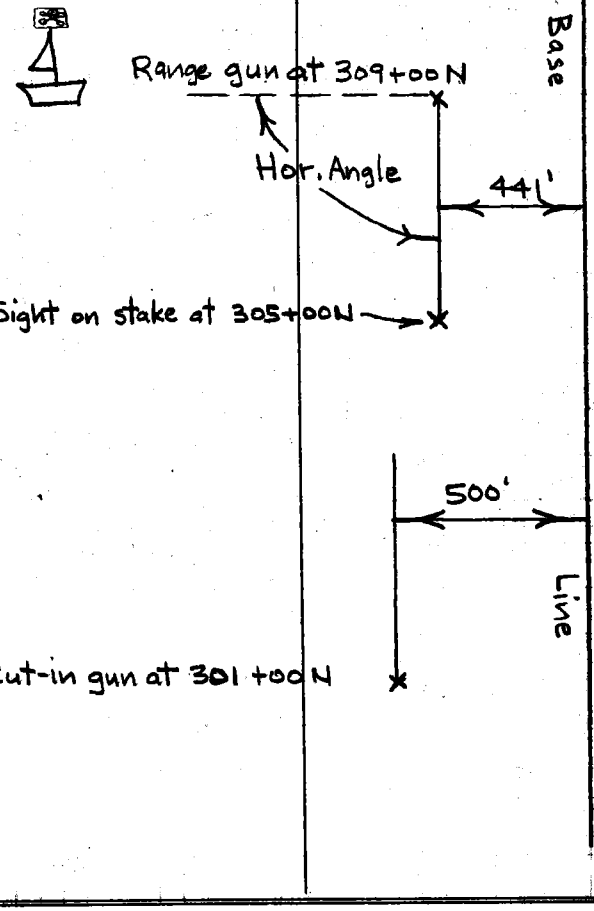
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE 309+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
309+00N (441' Offset Line)	305+00N (441' Offset Line)	1	B&W	8:07	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	8:10	90°00'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	8:13	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	8:16	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	8:18	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	8:20	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	8:21	90°00'	
		20	R		90°00'	



Profile No. ____ Notes Rod ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 141
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd ____ Date ____ Checked ____ Survey by Blanchard Notes CEM Date 11/9/53
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1505 PG. 142 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by FHB Notes CEM 11/9/53 Notes Chkd. _____ Checked _____ X-Sec.

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

Range 309+00 N

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	309+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
309+00N	21	Y		90°00'		
305+00N	22	B&W	8:23	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	8:27	90°00'		
	26	R		90°00'		
	27	Y		90°00'		

76L298 307 10-51

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7

CUT IN 309+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
301+00	309+00	1	R+W	8 06	68° 42	Note	
		2	R		66° 20	Inst on	500 foot offset.
		3	Y		64° 03		
		4	R+W	8 09	61° 29		
		5	R		58° 23		
		6	Y		55° 20		
		7	R+W	8 12	53° 06		
		8	R		49° 49		
		9	Y		47° 23		
		10	R+W	8 15	43° 49		
		11	R		40° 20		
		12	Y		37° 20		
		13	R+W	8 17	33° 51		
		14	R		30° 22		
		15	Y		27° 22		
		16	R+W	8 19	25° 48		
		17	R		22° 42		
		18	Y		21° 09		
		19	R+W	8 20	19° 06		
		20	R		17° 04		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 143

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD Date 11/9/53

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

Cut In 309+00 N

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8

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		15° 18		
	22	R+W	8 22	13° 45		
	23	R		11° 48		
	24	Y		14° 14 *		
	25	R+W	8 26	11° 59		
	26	R		10° 47		
	27	Y		8° 51		

Cut In 309+00 N

301+00

309+00

Profile

X-Sec.

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

Date ____ Date ____ Date ____

Survey of ____ Notes ____ Notes Chkd. ____ Checked ____ No. ____

Survey by [illegible] Johnson

Indexed ____ Date ____ Date ____ Date ____

F.B. 1505 PG. 144

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT – 309+00		
#	Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
1	B+W	8:08	33.8 / 32.2 / 30.6	32.6	5.8	26.8	2552	2052 + 500
2	R		30.0 / 31.0	30.2	5.8	24.4	2325	1825
3	Y		29.0 / 30.6	29.7	5.8	23.9	2144	1644
4	B+W	8:10	28.0 / 28.0	28.7	5.8	22.9	1972	1472
5	R		27.2 / 27.0	27.5	5.8	21.7	1799	1299
6	Y		26.1 / 26.2	26.4	5.8	20.6	1657	1157
7	B+W	8:13	25.1 / 25.7	25.5	5.8	19.7	1565	1065
8	R	14	24.0 / 25.4	24.6	5.8	18.8	1447	947
9	Y	15	23.5 / 25.6	24.1	5.9	18.2	1354	854
10	B+W	8:16	22.8 / 24.3	23.7	5.9	17.8	1268	768
11	R		23.0 / 24.1	23.4	5.9	17.5	1179	679
12	Y		21.2 / 22.7	22.2	5.9	16.3	1110	610
13	B+W	8:18	21.0 / 21.2	21.6	5.9	15.7	1037	537
14	R		19.5 / 19.2	20.1	5.9	14.2	969	469
15	Y		18.5 / 20.0	18.7	5.9	12.8	914	414
16	B+W	8:20	17.8 / 18.0	18.0	5.9	12.1	887	387
17	R		16.0 / 17.9	16.7	5.9	10.8	835	335
18	Y		16.1 / 16.7	16.7	5.9	10.8	809	309
19	B+W	8:21	15.7 / 15.9	16.0	5.9	10.1	777	277
20	R		14.5	15.0	5.9	9.1	746	246

500' offset added to cut-in calculations

Boat 309+00

Profile No. ____ Sec. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 8512 Division No. ____
Notes Chkd. DWC Date 12-8-53 Checked ____ Date ____ Survey of BEACH EROSION STUDY
Survey by FHB Notes FR Date 11-5-53 Map No. ____ Date ____ Chief, Tabulation Date ____

F. B. 7505 Page 95

76L298 307 4-50

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STATION		B.S.	H.I.	F.S.	ELEV.	BOAT		309+00 - N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		14.0 13.0	13.3	5.9	7.4	719	219 +500
22	B+W	8:23	13.1 11.3	11.9	5.9	6.0	696	196
23	R		12.0 9.7	10.5	5.9	4.6	667	167
24	Y		15.3 11.9 ?	13.0 ?	6.0	7.0 ?	703	203
25	B+W	8:27	12.3 10.5	11.1	6.0	5.1	670	170
26	R		12.0 8.8	9.9	6.0	3.9	652	152
27	Y		9.8 8.0	8.6	6.0	2.6	625	125
28	B+W							
29	R							
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

Boat 309+00 N

F.B. 1508 Pg. 146 Job No. 812 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed Date Date 12-21-53 Date No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 311+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
311+00N (441' offset 305+00N (441' offset)	1	B&W	8:44	90°00'	
	2	R		90°00'	
	3	Y		90° 00'	Range gun at 311+00N
	4	B&W	8:47	90° 00'	
	5	R		90° 00'	Hor. Angle
	6	Y		90° 00'	441'
	7	B&W	8:50	89° 37'	
	8	R		90° 00'	
	9	Y		90° 00'	
	10	B&W	8:53	90° 00'	
	11	R		90° 00'	Sight on stake at 305+00N
	12	Y		90° 00'	
	13	B&W	8:56	90° 00'	
	14	R		90°00'	Cut-in gun at 303+00N
	15	Y		90°00'	
	16	B&W	8:58	90°00'	500'
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	9:00	90°00'	
	20	R		90°00'	

Range 311+00 N

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 147
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by FHB Notes C.E.M. Date 11-19-53
Date ____ Date ____ Map No. ____ Date ____

F.B. 1505 PG. 148 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by Blanchard Notes CEM 11/9/53 Notes Chkd. _____ Checked _____ X-Sec.

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

Range 311+00N

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	311+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
311+00N	21	Y		90°00'		
	22	BEW	9:02	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	BEW	9:03	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	BEW	9:07	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
305+00N						

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76L298 307 10-51

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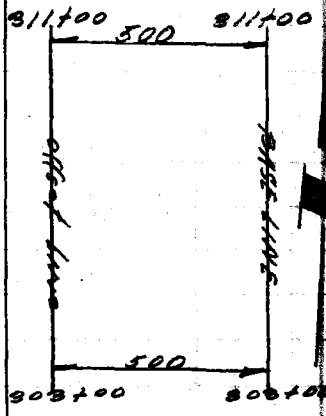
9

CUT IN 311+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
303+00	311+00	1	R+W	8 44	68° 04		
		2	R		66° 11		
		3	Y		63° 48		
		4	R+W	8 47	60° 34		
		5	R		56° 50		
		6	Y		53° 32		
		* 7	R+W	8 50	52° 13		
		8	R		50° 02		
		9	Y		46° 57		
		10	R+W	8 53	44° 05		
		11	R		41° 27		
		12	Y		38° 52		
		13	R+W	8 54	35° 54		
		14	R		33° 27		
		15	Y		30° 57		
		16	R+W	8 57	28° 25		
		17	R		26° 00		
		18	Y		23° 43		
		19	R+W	8 58	20° 28		
		20	R		18° 45		



Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 149

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

Survey by F. H. BLANCHARD Date 11/9/63

Map No. ____ Date ____ Traced J. C. Johnson Date ____

CUT IN 311+00 N.

76L298 307 10-51

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10

STATION	B. S.	H. I.	F. S.	ELEV.		
					CUT IN	311+00
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		17° 00		
	22	R+W	9:00	14° 42		
	23	R		14° 23		
	24	Y		12° 31		
	25	R+W	9 02	11° 06		
	26	R		11° 28 *		
	27	Y		12° 09 *		
	28	R+W	9 05	10° 28		
	29	R		9° 46		
	30	Y		8° 43		

303+00

311+00

CUT IN 311+00 N

F.B. 1505 PG. 150

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

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

Survey by A. O. Johnson Notes ____ Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____

76L298 307 4-50

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Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Date 12-21-53 Chkd. ____ Date ____ Survey by Blanchard Date 4/6/60
Map No. ____ Date ____ Date ____

F.B. 1573 PG 75

Boat 311+00 -N

STATION #	Color	B. S. Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth		Remarks
1	B+W	8:44	33.0 / 32.1	32.4	6.1	26.3	2486	1986 + 500
2	R		32.4 / 31.0	31.5	6.1	25.4	2312	1812
3	Y		31.0 / 29.4	29.9	6.1	23.8	2126	1626
4	B+W	8:48	29.8 / 28.5	28.9	6.1	22.8	1918	1418
5	R		28.0 / 27.0	27.3	6.1	21.2	1724	1224
6	Y		26.7 / 26.0	26.2	6.1	20.1	1582	1082
7	B+W	8:51	27.0 / 25.0	25.7	6.2	19.5	1522	1022
8	R		27.8 / 24.1	25.3	6.2	19.1	1454	954
9	Y		26.3 / 23.5	24.4	6.2	18.2	1356	856
10	B+W	8:54	25.0 / 23.0	23.7	6.2	17.5	1275	775
11	R		24.9 / 23.0	23.6	6.2	17.4	1206	706
12	Y		24.2 / 23.2	23.5	6.2	17.3	1145	645
13	B+W	8:56	24.0 / 22.0	22.7	6.2	16.5	1079	579
14	R		23.0 / 22.0	22.3	6.2	16.1	1028	528
15	Y		21.8 / 20.0	20.6	6.2	14.4	980	480
16	B+W	8:58	20.8 / 18.0	19.6	6.2	13.4	933	433
17	R		20.1 / 18.2	18.8	6.2	12.6	890	390
	Y		19.7 / 18.0	18.6	6.2	12.4	851	351
	B+W	8:59	18.0 / 16.0	16.7	6.2	10.5	799	299
	R		17.0 / 15.3	15.9	6.2	9.7	771	271

Boat 311+00 N

76L298 307 4-50

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Profile ____ Plotted ____ Notes Red ____ Division No. ____ Job No. 8412 ____ Notes Chkd. ____ Checked ____ Indexed ____ Date ____

X-Sec. ____ No. ____ Date ____ Date ____ Date 12-21-53 ____ Date ____

Survey of Beach Erosion Studies

Survey by Blanchard ____ Notes ____ Date ____

Indexed L. C. Johnson

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	311+00-N	
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		16.6					
			14.4	15.1	6.2	8.9	745	245 +500
			15.2					
22	B&W	9:02	13.5	14.1	6.2	7.9	710	210
			13.8					
23	R		12.9	13.2	6.2	7.0	705	205
			13.1					
24	Y		11.0	11.7	6.2	5.5	678	178
			12.0					
25	B&W	9:03	10.9	11.3	6.2	5.1	657	157
			12.0					
26	R		10.5	11.0	6.2	4.8	662	162
			13.0					
27	Y		10.6	11.4	6.2	5.2	672	172
			11.1					
28	B&W	9:05	10.1	10.4	6.2	4.2	648	148
			11.1					
29	R		9.1	9.8	6.2	3.6	637	138
			10.6					
30	Y		8.2	9.0	6.2	2.8	623	123
31	B&W							
32								
33								
34								

Boat 311+00 N

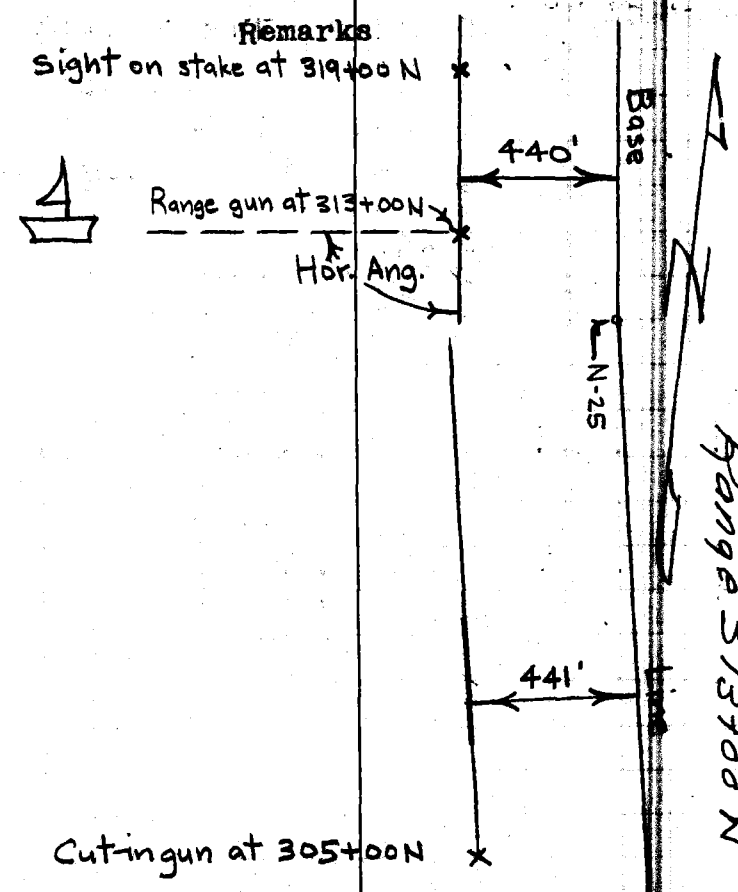
76L298 307 10-51

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 313+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
313+00N (440' Offset Line) / 319+00N (440' Offset Line - Plunged Telescope)	1	B&W	9:39	89°41'	Sight on stake at 319+00 N
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	9:42	90°00'	Range gun at 313+00N
	5	R		90°00'	Hor. Ang.
	6	Y		90°00'	
	7	B&W	9:45	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	9:48	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	9:49	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	9:51	90°00'	
	17	R		90°00'	
	18	Y		89°41'	Cut-in gun at 305+00N
	19	B&W	9:53	90°00'	
	20	R		90°00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 1/53
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Notes CEM Date Nov. 9, 1953
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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

Do not extend notes this side of this line.

F.B. 1505 PG. 154 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ No. ____ Profile

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

Survey by Blanchard Notes CEM 11/9/53 Notes Chkd. ____ Checked ____

Indexed E. O. Johnson Date ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	313+00'N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
313+00 N	21	Y		90° 00'		
	22	B&W	9:54	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	9:56	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B&W	10:00	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
	31	B&W	10:02	90°00'		
	32	R		90°00'		
	33	Y		90°00'		
319+00 N (Plunged Telescope)						
Range 313+00 N						

76L298 307 10-51

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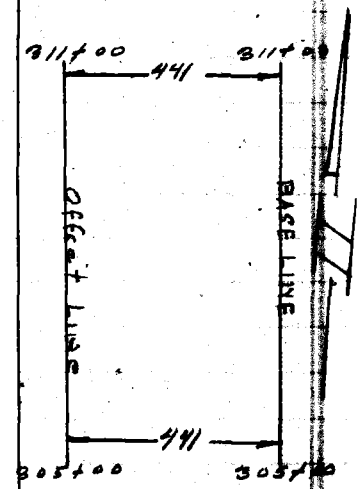
11

CUT IN 313+00

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
305+00	311+00	* 1	R+W	9 38	68° 53	
		2	R		66° 45	
		3	Y		64° 36	
		4	R+W	9 41	61° 46	
		5	R		58° 51	
		6	Y		54° 38	
		7	R+W	9 44	52° 00	
		8	R		48° 38	
		9	Y		45° 46	
		10	R+W	9 47	42° 41	
		11	R		39° 31	
		12	Y		37° 06	
		13	R+W	9 49	35° 11	
		14	R		32° 25	
		15	Y		31° 11	
		16	R+W	9 50	29° 04	
		17	R		27° 01	
		* 18	Y		24° 30	
		19	R+W	9 52	22° 26	
		20	R		21° 32	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1595 Pg. 155

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

X-Sec. Notes Chkd ____ Checked ____ Survey by E. H. BLANCHARD US Date 11/2/53

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

Cut In 313+00 N

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

12

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		20° 05		
	22	R+W	9 53	18° 41		
	23	R		16° 52		
	24	Y		15° 53		
	25	R+W	9 55	15° 32		
	26	R		15° 01		
	27	Y		14° 21		
	28	R+W	9 57	16° 03		
	29	R		15° 21		
	30	Y		14° 30		
	31	R+W	10° 01	15° 00 *		
	32	R		12° 58		
	33	Y		12° 26		

Cut In 313+00 N 305+00 311+00

Cut In 313+00

F.B. 1505 Pg. 156 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No. X-Sec.
Survey by Notes Notes Chkd. Checked
Indexed Date Date Date No.

764.298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red _____ Plotted _____ Job No. 8412 Division No. _____
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
Notes Chkd. _____ Plotted _____ Survey by Blanchard Hom & Assoc. Date 4/4/58
No. _____ Date 12-2-57 Date _____ Map No. _____ Checked _____ Date _____

F.B. 1276 Pg. 157

STATION		B.S.	H.I.	F.S.	ELEV.	BOAT		313+00 N	
#	Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks	
1.	B+W	9:38	33.6 / 32.5 / 32.6	32.9	6.3	26.6	2502	2061	+441
2.	R		30.4 / 31.0	31.1	6.3	24.8	2303	1862	+441
3.	Y		29.5 / 30.0	30.0	6.3	23.7	2125	1684	
4.	B+W	9:42	28.0 / 28.0	28.7	6.3	22.4	1930	1489	
5.	R		26.9 / 27.9	27.3	6.3	21.0	1764	1323	
6.	Y		25.0 / 27.0	26.0	6.3	19.7	1567	1126	
7.	B+W	9:45	25.0 / 26.0	25.7	6.3	19.4	1464	1023	
8.	R		24.4 / 23.5	24.9	6.3	18.6	1349	908	
9.	Y		23.5 / 24.1	24.2	6.3	17.9	1263	822	
10.	B+W	9:47	23.0 / 24.6	23.4	6.3	17.1	1179	738	
11.	R		22.3 / 23.7	23.1	6.3	16.8	1101	660	
12.	Y		22.1 / 22.7	22.6	6.3	16.3	1046	605	
13.	B+W	9:49	21.9 / 22.6	22.2	6.3	15.9	1005	564	
14.	R		19.0 / 21.3	20.2	6.3	13.9	949	508	
15.	Y		20.0 / 20.6	20.4	6.3	14.1	925	484	
16.	B+W	9:51	18.3 / 20.5	19.1	6.3	12.8	886	445	
17.	R		18.1 / 19.1	18.9	6.3	12.6	849	408	
18.	Y		17.5 / 18.2	18.0	6.3	11.7	805	364	
19.	B+W	9:53	16.2 / 17.7	16.9	6.3	10.6	771	330	
20.	R		15.9	16.5	6.3	10.2	757	316	

441' offset added to cut-in calculations

Boat 313+00 N

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	313+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		16.0 / 15.0	15.3 ✓	6.3	9.0 ✓	733 ✓	292 + 441
22	B+W	9.54	15.1 / 13.8	14.2 ✓	6.2 ✓	8.0 ✓	711 ✓	270
23	R		13.8 / 12.4	12.9 ✓	6.2	6.7 ✓	683 ✓	242
24	Y		13.6 / 10.4	11.5 ✓	6.2	5.3 ✓	669 ✓	228
25	B+W	9:56	13.0 / 10.4	11.3 ✓	6.2	5.1 ✓	663 ✓	222
26	R		12.8 / 10.8	11.5 ✓	6.2	5.3 ✓	656 ✓	215
27	Y		12.8 / 10.0	10.9 ✓	6.2	4.7 ✓	646 ✓	205
28	B+W	9:59	14.0 / 10.2	11.5 ✓	6.2	5.3 ✓	671 ✓	230
29	R		12.0 / 10.2	10.8 ✓	6.2	4.6 ✓	661 ✓	220
30	Y		12.0 / 9.8	10.5 ✓	6.2	4.3 ✓	648 ✓	207
31	B+W	10:02	11.9 / 10.0	10.6 ✓	6.2 ✓	4.4 ✓	655 ✓	214
32	R		11.2 / 8.9	9.7 ✓	6.2	3.5 ✓	625 ✓	184
33	Y		9.6 / 8.6	8.9 ✓	6.2	2.7 ✓	617 ✓	176

Boat 313+00 N

F. S. 1505 Pg. 109 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes Chkd. Checked
Indexed C. Johnson Date 12-21-53 Date No.

76L298 307 10-51

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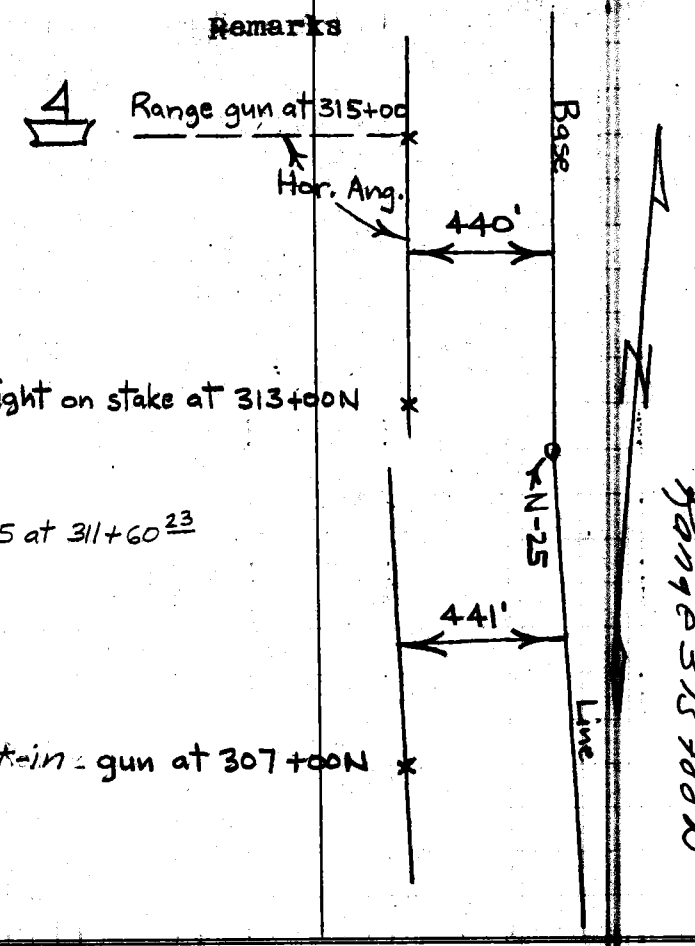
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE 315+00N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
		1	B&W	10:16	90°00'	
		2	R		90°00'	
		3	Y		89°43'	
		4	B&W	10:18	90°00'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	10:21	90°00'	
		8	R		90°00'	Sight on stake at 313+00N
		9	Y		90°00'	
		10	B&W	10:23	90°00'	
		11	R		90°00'	N-25 at 311+60 23
		12	Y		90°00'	
315+00N	313+00N	13	B&W	10:25	90°17'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	10:27	90°00'	Cut-in - gun at 307+00N
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	10:29	90°00'	
		20	R		90°00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 759
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes CEM Date 11/9/53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 10-51

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	315+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	10:31	90°00'		
		23	R		90°00'		
315+00N	313+00N	24	Y		90°00'		
		25	B&W	10:32	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	10:34	90°00'		
		29	R		90°00'		
		30	Y		90°00'		

Range 315+00N

F.B. 1505 PG. 166 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of ____ Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed A. C. Johnson Date ____ Date ____ Date ____ No. ____

76L298 307 10-51

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ENGINEERING BLDG.

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

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13

CUT IN 315+00

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
307+00 311+00	1	R+W	10 15	68° 25	Note
	2	R		66° 20	Inst on 441 Foot offset
	* 3	Y		64° 16	
	4	R+W	10 17	61° 42	
	5	R		59° 28	
	6	Y		57° 29	
	7	R+W	10 20	55° 26	
	8	R		53° 07	
	9	Y		51° 09	
	10	R+W	10 22	48° 06	
	11	R		45° 31	
	12	Y		42° 57	
	* 13	R+W	10 24	39° 51	
	14	R		37° 46	
	15	Y		34° 54	
	16	R+W	10 26	31° 36	
	17	R		29° 11	
	18	Y		26° 49	
	19	R+W	10 28	24° 12	
	20	R		22° 37	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1595 Pg. 161

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

Notes Chkd. ____ Checked ____ Survey by F. H. BLANCHARD US Date 11/9/53

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

CUT IN 315+00 N

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

14

cut in 315+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		20° 54		
		22	R+W	10 30	18° 59		
		23	R		18° 12		
		24	Y		17° 32		
		25	R+W	10 31	16° 41		
		26	R		15° 52		
		27	Y		15° 08		
		28	R+W	10 33	13° 57		
		29	R		12° 24		
		30	Y		11° 49		

Cut IN 315+00 N 307+00 311+00

F.B. 1505 PG. 162

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

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

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		315+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:16	33.2 / 30.6	31.5	6.1	25.4	2463	2022 + 441
2	R		32.1 / 30.8	31.2	6.1	25.1	2257	1816
3	Y		31.3 / 30.0	30.6	6.1	24.5	2089	1648
4	B&W	10:18	30.9 / 28.0	29.0	6.1	22.9	1927	1486
5	R		29.2 / 27.2	27.9	6.1	21.8	1797	1356
6	Y		28.2 / 26.5	26.9	6.1	20.8	1690	1249
7	B&W	10:21	28.2 / 25.3	26.3	6.1	20.2	1597	1156
8	R		26.8 / 25.2	25.7	6.1	19.6	1506	1065
9	Y		26.0 / 24.8	25.2	6.1	19.1	1434	993
10	B&W	10:23	26.5 / 24.1	24.7	6.1	18.6	1357	916
11	R		25.9 / 24.0	24.6	6.1	18.5	1252	811
12	Y		25.8 / 23.3	24.0	6.0	18.0	1186	745
13	B&W	10:26	25.1 / 22.0	23.0	6.0	17.0	1111	670
14	R		23.8 / 22.5	22.9	6.0	16.9	1059	618
15	Y		23.0 / 21.8	22.2	6.0	16.2	999	558
16	B&W	10:27	21.9 / 20.3	20.8	6.0	14.8	933	492
17	R		21.7 / 18.9	19.8	6.0	13.8	888	447
18	Y		20.6 / 18.5	19.2	6.0	13.2	845	404
19	B&W	10:29	19.7 / 16.8	17.8	6.0	11.8	799	358
20	R		17.8 / 16.4	16.9	6.0	10.9	774	333

441' offset added to cut-in distances

Boat 315+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1523 Pg. 163
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. RMC Checked ____ Survey by Blanchard Notes ER Date 4/9/63
No. ____ Date 12-21-53 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		315+00 N
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth		Remarks
21	Y		17.6 15.9	16.5	6.0	10.5	746	305 + 441
22	[illegible]	10:30	15.5 13.2	14.0	6.0	8.0	716	275
23	R		15.0 13.8	14.2	6.0	8.2	704	263
24	Y		14.7 13.0	13.6	6.0	7.6	694	253
25	[illegible]	10:32	14.5 11.0	12.2	6.0	6.2	679	238
26	R		13.1 10.5	11.4	6.0	5.4	668	227
27	Y		12.1 9.8	10.6	6.0	4.6	657	216
28	[illegible]	10:33	11.8 9.3	10.1	6.0	4.1	640	199
29	R		11.0 9.0	9.7	6.0	3.7	617	176
30	Y		10.3 7.2	8.2	6.0	2.2	608	167

Boat 315+00 N

F. B. 1515 PG. 164 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by Blanchard Notes Notes Chkd. Checked No.
Indexed C. Johnson Date Date 12-21-53 Date

76L298 307 10-51

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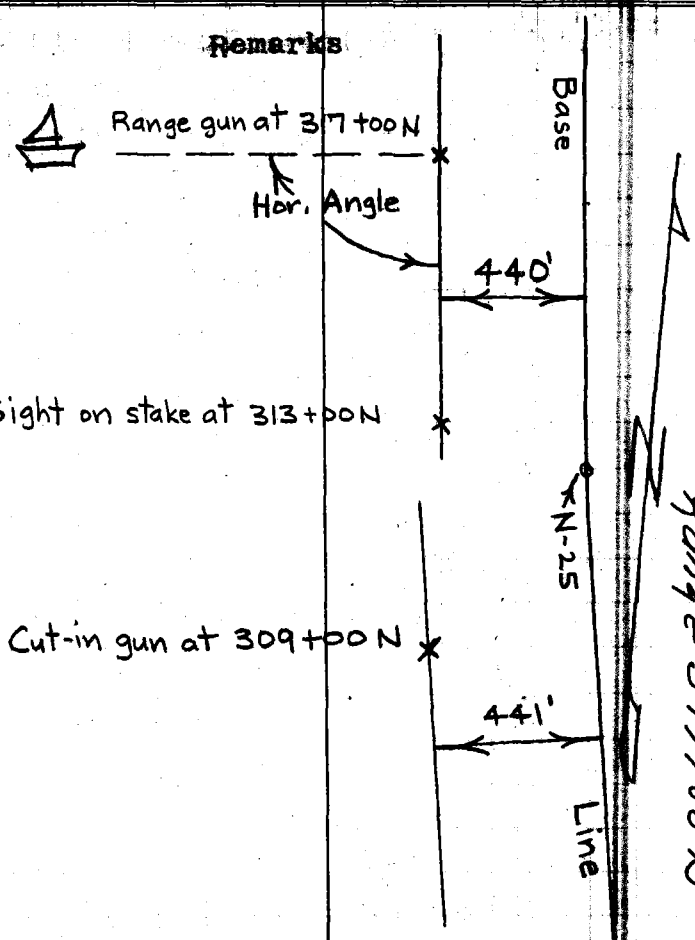
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	317+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B&W	10:48	89°46'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	10:53	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	10:57	90°00'		
		8	R		90°00'	Sight on stake at 313+00N	
		9	Y		90°00'		
		10	B&W	11:00	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	11:02	90°00'	Cut-in gun at 309+00N	
		14	R		90°00'		
		15	Y		90°00'		
317+00N	313+00N	16	B&W	11:04	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	11:06	90°00'		
		20	R		90°00'		



Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by Blanchard Notes CEM Date 11/9/53
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1505 Pg. 165

F.B. 1505 PG. 166 Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

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

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

76L298 307 10-51

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726 LOS ANGELES COUNTY

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	317+00N
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks	
317+00N	21	Y		90°00'		
	22	B&W	11:08	90°00'		
313+00N	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	11:09	90°00'		
	26	R		90°00'		
	27	Y		90°00'		

Range 317+00N

76L298 307 4-50

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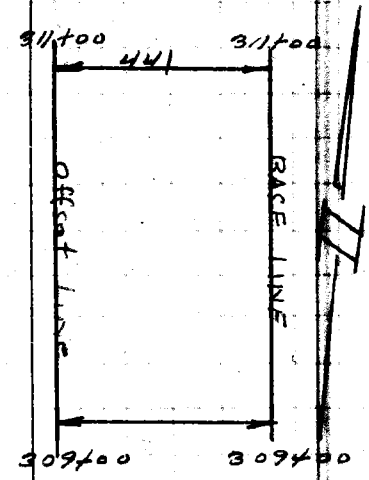
15

CUT IN 317+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On		# Color	Time	Hor. Ang.	
309+00	* 1	R+W	10 47	68° 45	
	311+00 2	R		66° 35	
	3	Y	—	63° 18	
	4	R+W	10 52	61° 09	
	5	R		59° 01	
	6	Y		56° 04	
	7	R+W	10 56	53° 21	
	8	R		50° 24	
	9	Y		47° 28	
	10	R+W	10 59	45° 25	
	11	R		42° 29	
	12	Y		40° 58	
	13	R+W	11 01	38° 38	
	14	R		36° 20	
	15	Y		34° 24	
	16	R+W	11 03	31° 52	
	17	R		29° 34	
	18	Y		26° 57	
	19	R+W	11 05	25° 39	
	20	R		23° 15	



Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1505 Pg. 167
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes JS Date 11/9/63
No. Date Date Map No. Indexed Job Date

Cut In 317+00 N

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		20° 34		
		22	R+W	11 07	18° 08		
		23	R		17° 05		
		24	Y		16° 16		
		25	R+W	11 08	14° 32		
		26	R		14° 12		
		27	Y		12° 02		

Cut In 317+00 N

309+00

311+00

16

Cut In 317+00

F. B. 1505 Pg. 168 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by F. H. B. Notes Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		317+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1.	B+W	10:43	33.1 31.5	32.2	5.8	26.4	2490	2050 +440
2.	R		31.6 30.6	31.1	5.8	25.3	2287	1847 +440
3.	Y		30.0 27.7	29.2	5.8	23.4	2030	1590
4	B+W	10:53	29.1 28.0	28.4	5.8	22.6	1890	1450
5	R		26.0	26.9	5.8	21.1	1772 Cut	1332 pic Kixa Nose
6	Y		27.1	26.7	5.7	21.0	1629	1189
7	B+W	10:56	28.0 23.7	25.1	5.7	19.4	1515	1075
8	R		25.6 24.8	25.1	5.7	19.4	1407	967
9	Y		27.1 23.0	24.4	5.7	18.7	1312	872
10	B+W	10:59	25.2 23.5	24.1	5.7	18.4	1252	812
11	R		25.0 22.7	23.5	5.7	17.8	1173	733
12	Y		24.5 22.7	23.3	5.7	17.6	1135	695
13	B+W	11:01	23.4 22.2	22.6	5.7	16.9	1079	639
14	R		23.9 22.0	22.6	5.6	17.0	1028	588
15	Y		22.9 21.4	21.9	5.6	16.3	988	548
16	B+W	11:04	22.2 20.8	21.3	5.6	15.7	937	497
17	R		21.3 19.8	20.3	5.6	14.7	894	454
18	Y		19.2 18.2	18.5	5.6	12.9	847	407
19	B+W	11:06	19.0 17.9	18.3	5.6	12.7	824	384
20	R		18.3 16.8	17.3	5.6	11.7	784	344

440' offset added to cut-in distances

Boat 317+00

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 169
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. RMW Checked ____ Survey by Blanchard Notes ER Date 11/9/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Indexed K. Johnson Date ____

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		317+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	[illegible]		17.4 15.0	15.8	5.6	10.2	740	300 +440
22	[illegible]	11:07	15.4 13.3	14.0	5.6	8.4	702	262
23	[illegible]		14.6 12.0	12.9	5.6	7.3	686	246
24			12.5 10.6	11.2	5.5	5.7	673	233
25	[illegible]	11:05	12.1 9.8	10.6	5.5	5.1	647	207
26	[illegible]		12.6 9.0	10.2	5.5	4.7	642	202
27			9.4 7.6	8.2	5.5	2.7	610	170
28	[illegible]							
29	R							
30	[illegible]							
31	[illegible]							

Boat 317+00N

F. B. 1505 Pg. 170 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date Date X-Sec.
Survey by Blanchard Notes Notes Chkd Lew Checked
Indexed R. C. Johnson Date Date 12-21-53 Date No.

76L298 307 10-51

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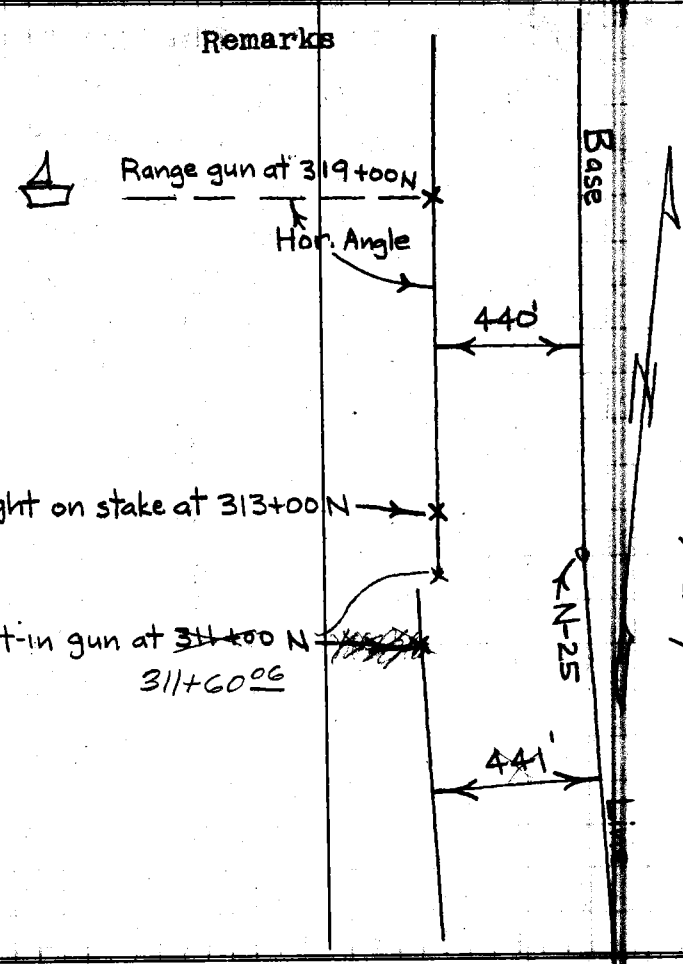
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	319+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
319+00N (440' Offset Line)	313+00N (440' Offset Line)	1	B&W	11:24	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	11:27	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	11:30	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	11:33	89°42'	Sight on stake at 313+00 N	
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	11:36	90°00'	Cut-in gun at ~~311+00~~ N 311+60.06	
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	11:39	90°00'		
		17	R		89°16'		
		18	Y		90°00'		
		19	B&W	11:41	90°00'		
		20	R		90°00'		



Proj. of 319+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 177

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

X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Notes CEM Date 11/9/53

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

F.B. 1505 PG. 172 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by Blanchard Notes CEM 11/9/53 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

Range 319+00N

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	319+00N
Inst. Sight At OR	#	Color	Time	Hor. Ang.		Remarks
319+00N	21	Y		90°00'		
313+00N	22	B&W	11:44	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	11:46	90°00'		
	26	R		90°00'		
	27	Y		90°00'		

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76L298 307 10-51

76L298 307 4-50

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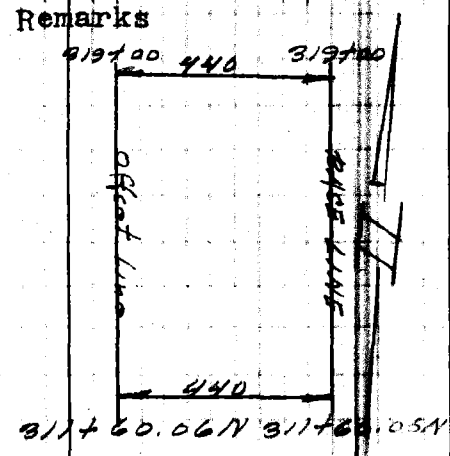
17

Cut in 319+00

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On		# Color	Time Hor. Ang.	Remarks
311+60.06N	319+00	1 R+W	11 22	70° 42
		2 R		68° 15
		3 Y		65° 12
		4 R+W	11 26	63° 15
		5 R		61° 54
		6 Y		59° 50
		7 R+W	11 29	57° 29
		8 R		54° 47
		9 Y		51° 45
		* 10 R+W *	11 31	49° 03
		11 R		46° 40
		12 Y		43° 53
		13 R+W	11 35	41° 19
		14 R		39° 33
		15 Y		38° 02
		16 R+W	11 38	35° 14
		17 R *		32° 49
		18 Y		30° 10
		19 R+W	11 40	28° 52
		20 R		26° 07



Cut in 319+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 172
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes J.S. Date 11/9/53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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18

Cut in 319+00

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		23° 29		
	22	R+W	11 43	22° 29		
	23	R		20° 58		
	24	Y		19° 38		
	25	R+W	11 44	18° 27		
	26	R		17° 48		
	27	Y		15° 02		

Cut In 319+00 N 341+60.06 N 319+00

F. B. 1505 Pg. 174 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by E.H.B. Notes Chkd. Checked
Indexed Date Date No.

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		319+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	11:23	33.0 31.8	32.2	5.3	26.9	2552	2112 +440
2	R		30.5 30.0	30.2	5.3	24.9	2294	1854
3	Y		29.4 28.5	28.8	5.3	23.5	2041	1601
4	B&W	11:26	29.0 27.0	27.7	5.3	22.4	1907	1467
5	R		28.9 26.0	27.0	5.3	21.7	1825	1385
6	Y		27.0 26.1	26.4	5.3	21.1	1713	1273
7	B&W	11:29	27.6 24.5	25.2	5.2	20.0	1600	1160
8	R		26.0 24.5	25.2	5.2	20.0	1488	1048
9			24.9 23.7	24.1	5.2	18.9	1379	939
10	[illegible]	11:33	24.7 24.0	24.2	5.2	19.0	1288	848
11	R		25.1 22.7	23.5	5.2	18.3	1224	784
12	Y		23.8 22.6	23.0	5.2	17.8	1152	712
13	B&W	11:35	23.4 20.9	21.7	5.1	16.6	1090	650
14	R		23.7 21.0	21.9	5.1	16.8	1051	611
15	Y		23.7 20.8	21.8	5.1	16.7	1019	579
16	B&W	11:38	22.1 20.5	21.0	5.1	15.9	963	523
17	R		21.3 19.6	20.2	5.1	15.1	913	473
18	[illegible]		20.1 18.3	18.9	5.1	13.8	870	430
19	B&W	11:41	19.1 17.6	18.1	5.0	13.1	848	408
20	R		18.5 16.6	17.2	5.0	12.2	803	363

440' offset added to cut-in distances

Boat 319+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 175
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by Blanchard Notes ER Date 11/6/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Indexed S. Johnson Date ____

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		319+00 N
#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks	
21	Y		16.6 15.5	15.9 ✓	5.0	10.9 ✓	762 ✓ 322 +440
22	[illegible]	11:43	16.0 15.0	15.3 ✓	5.0 ✓	10.3 ✓	746 ✓ 306
23	[illegible]		15.4 14.0	14.5 ✓	5.0	9.5 ✓	724 ✓ 284
24	[illegible]		14.3 [illegible]	12.5 ✓	5.0	7.5 ✓	702 ✓ 262
25	[illegible]	11:45	13.2 10.4	11.7 ✓	5.0 ✓	6.7 ✓	687 ✓ 247
26	[illegible]		12.9 10.9	11.6 ✓	5.0	6.6 ✓	678 ✓ 238
27	[illegible]		12.1 9.0	10.0 ✓	5.0	5.0 ✓	639 ✓ 199
28	[illegible]						
29							
30							
31	[illegible]						
32	[illegible]						
33							
34							
35							
36							

Boat 319+00 N

F. B. 1505 Pg. 176 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No.
Survey by [illegible] Notes Chkd. [illegible] Checked X-Sec.
Indexed Date Date 12-21-53 Date No.

76L298 307 10-51

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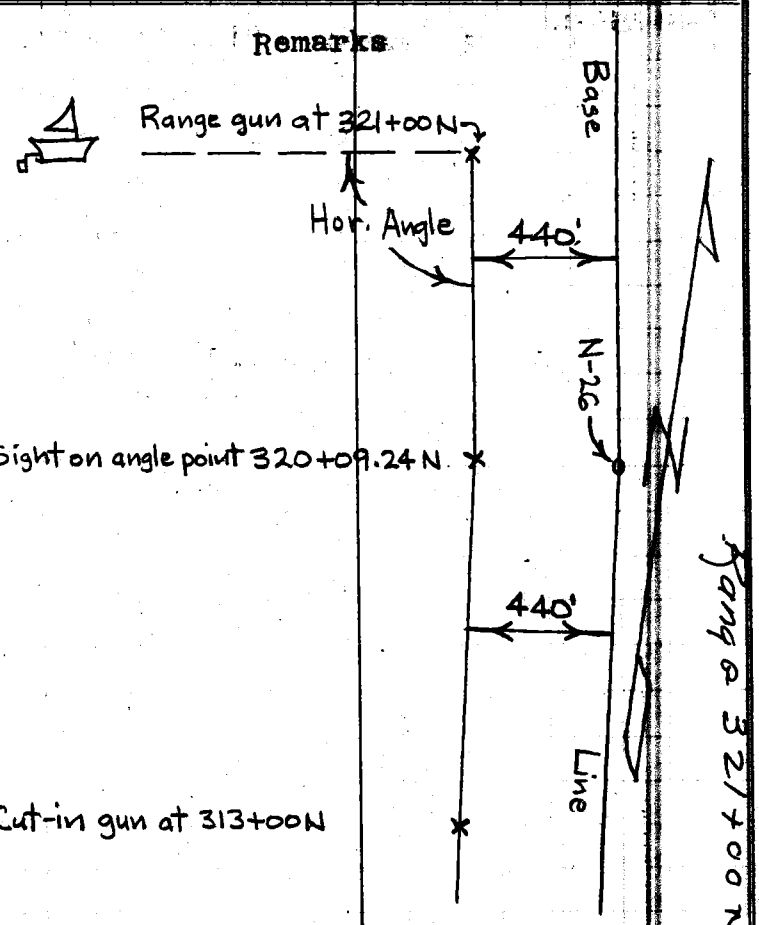
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	321+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
321+00N (440' Offset Line)	320+09.24 N angle point (440' Offset Line)	1	B&W	12:04	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	12:09	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	12:11	90°00'		
		8	R		90°00'		
		9	Y		90°00'	Sight on angle point 320+09.24 N	
		10	B&W	12:14	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	12:16	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	12:18	90°00'		
		17	R		90°00'	Cut-in gun at 313+00N	
		18	Y		90° 11'		
		19	B&W	12:19	90°00'		
		20	R		90°00'		



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 177

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

X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Notes CEM Date 11/9/53

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

76L298 307 10-51

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F.B. 1505 PG. 178 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes CEM 11/9/53 Notes Chkd. Checked
Indexed L. O. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	321+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
321+00 N / 320+09 24 N angle point	21	Y		90° 00'		
	22	B&W	12:21	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B&W	12:23	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	B&W	12:25	90° 00'		
	29	R		90° 00'		

Range 329+00 N

76L298 307 4-50

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Do not extend notes this side of this line.

19

CUT IN 321+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On		# Color	Time Hor. Ang.		
313+00	N26 440 off 1	R+W	12 03	70° 11	
	2	R		68° 05	
	3	Y		65° 49	Inst on 440 offset.
	4	R+W	12 07	63° 33	
	5	R		60° 49	
	6	Y		58° 25	
	7	R+W	12 10	55° 21	
	8	R		52° 40	
	9	Y		50° 42	
	10	R+W	12 12	48° 59	
	11	R		47° 10	
	12	Y		45° 28	
	13	R+W	12 15	43° 48	
	14	R		41° 33	
	15	Y		39° 15	
	16	R+W	12 16	37° 31	
	17	R		35° 35	
	* 18	Y		33° 03	
	19	R+W	12 18	30° 24	
	20	R		28° 29	

Profile Notes Red. Plotted Job No. 8412 Division No. F.B. 1505 Pg. 179
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes JS Date 11/9/63
No. Date Date Map No. [illegible] Date

Cut In 321+00 N

76L298 307 4-50

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Do not extend notes this side of this line.

20

Cut In 321+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		25 29		
		22	R+W	12 20	23° 32		
		23	R		22° 00		
		24	Y		20° 00		
		25	R+W	12 22	18° 37		
		26	R		17° 43		
		27	Y		16° 36		
		28	R+W	12 23	15° 36		
		29	R		14° 35		

Cut In 321+00 N 313+00

F. B. 1505 Pg. 180

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

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

Survey by E. H. B. Notes Notes Chkd. Checked

Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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Profile Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F. B. 1185 Pg. 117

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

No. _____ Date 12-21-53 Date _____ Map No. _____ Date _____

Notes Chkd. Paul Checked Survey by Blanchard Rec. Eng. 11/21/53

STATION B. S. H. I. F. S. ELEV. BOAT 321+00

#	Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
1.	B&W	12:04	33.1 30.8 31.8	31.6	4.7	26.9	2660	2220
2.	R		30.2 30.9	30.7	4.7	26.0	2428	1988
3.	Y		27.9 29.0	28.9	4.6	24.3	2221	1781
4.	B&W	12:08	27.3 27.6	27.9	4.6	23.3	2048	1608
5	R		26.0 26.4	26.5	4.6	21.9	1872	1432
6	Y		25.0 26.6	25.5	4.6	20.9	1741	1301
7	B&W	12:11	24.0 24.4	24.9	4.6	20.3	1597	1157
8	R		23.0 25.4	23.5	4.6	18.9	1489	1049
9	Y		23.0 24.2	23.8	4.5	19.3	1417	977
10	B&W	12:13	22.8 24.0	23.3	4.5	18.8	1360	920
11	R		22.1 24.1	22.7	4.5	18.2	1303	863
12	Y		22.6 24.1	22.7	4.5	18.2	1253	813
13	B&W	12:15	21.9 23.0	22.6	4.5	18.1	1207	767
14	R		21.1 22.4	21.7	4.5	17.2	1149	709
15	Y		21.0 22.3	21.5	4.5	17.0	1094	654
16	B&W	12:16	21.0 22.6	21.4	4.5	16.9	1054	614
17	R		20.7 21.6	21.3	4.5	16.8	1012	572
18	Y		20.0 21.4	20.5	4.5	16.0	961	521
19	B&W	12:19	18.5 19.9	19.5	4.4	15.1	909	469
20	R		18.1	18.7	4.4	14.3	873	433

Boat 321+00 N

76L298 307 4-50

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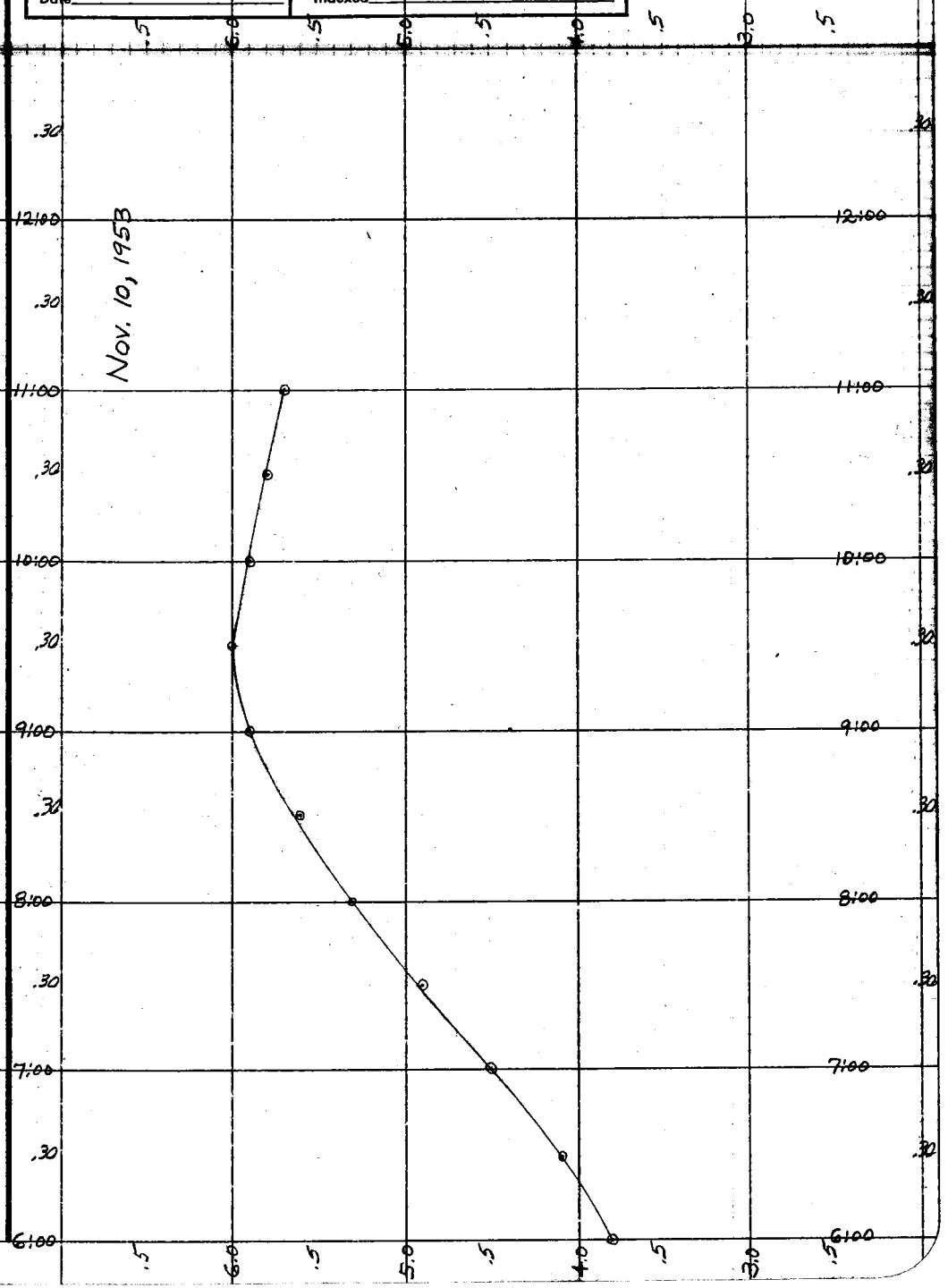
STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		411+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		17.9 17.0	17.3	4.4	12.9	821	381 - +440
22	B+W	12:20	15.1 15.0	16.0	4.4	11.6	788	348
23	R		16.0 14.0	14.7	4.4	10.3	763	323
24	Y		14.3 13.2	13.6	4.4	9.2	731	291
25	B+W	12:22	13.9 11.0	12.0	4.4	7.6	709	269
26	R		12.8 10.8	11.5	4.4	7.1	696	256
27	Y		12.1 10.3	10.9	4.4	6.5	678	238
28	B+W	12:24	10.3 9.0	9.4	4.4	5.0	663	223
29	R		10.0 8.4	8.9	4.3	4.6	648	208
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							

Boat 321+00 N

F.B. 1506 - 182 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes Notes Chkd. LAW Checked
Indexed Date Date 12-21-53 Date No.

Notes Ck'd by	Survey of TIDE GAGE
Map No.	W. O. 8412 Tape No. St'd. °F
Office Work	Surveyed by KVAMMEN
Checked	Notes Date
Date	Indexed

F. B. 1505 PG.



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

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76F3095 247 4-53

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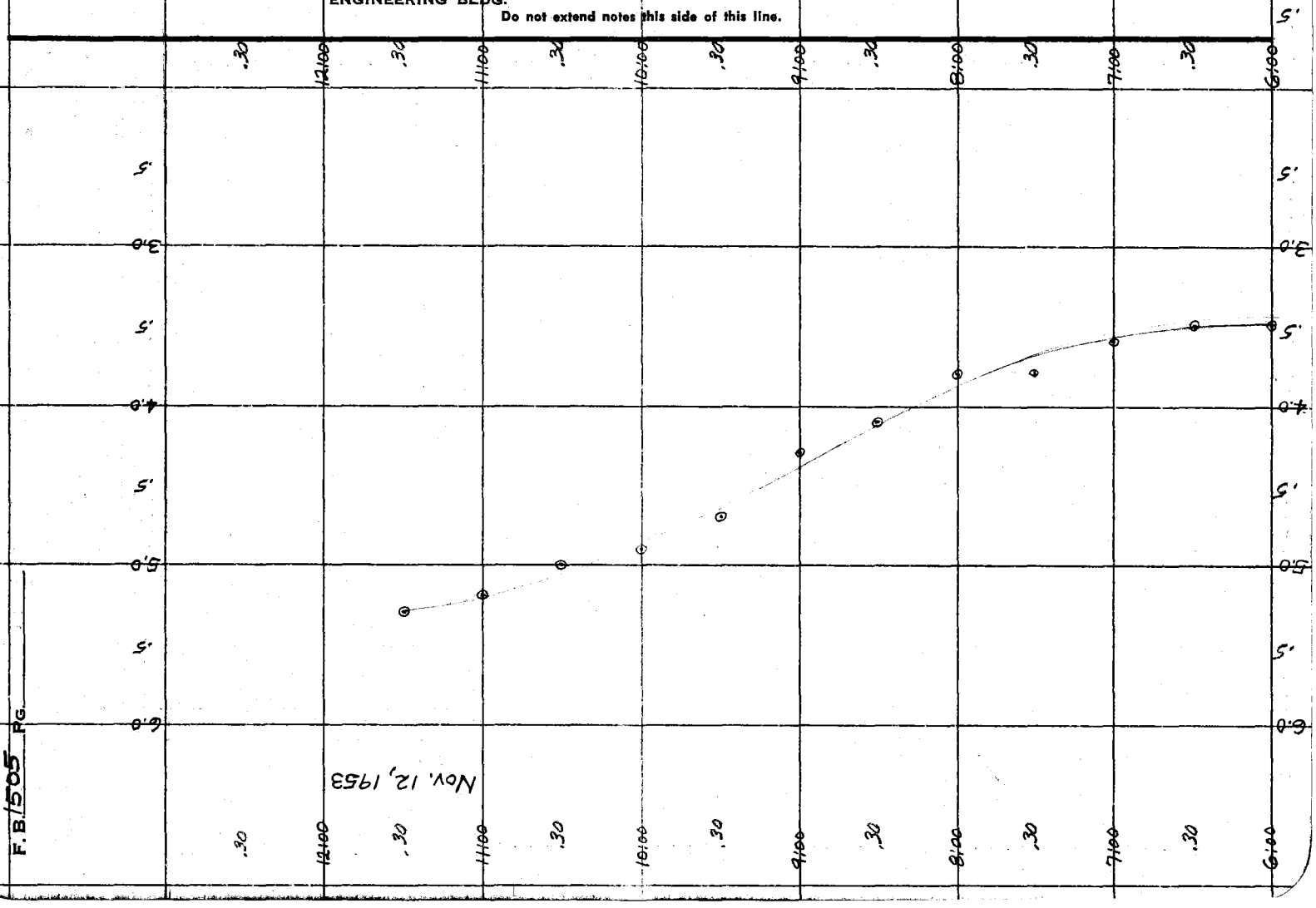

F.B. 1505 PG.

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

F. B. 1505 PG. 183

TIDE GAGE

STANDARD TIME NOV 10 1953

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

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 2-51

F. B. 1505 PG. 184

TIDE STAGE

STANDARD TIME NOV 12 1953

HOUR	TIDE
600	35
630	35
700	36
730	38
800	38
830	41
900	43
930	47
1000	49
1030	50
1100	52
1130	53
1200	

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76L298 307 10-51

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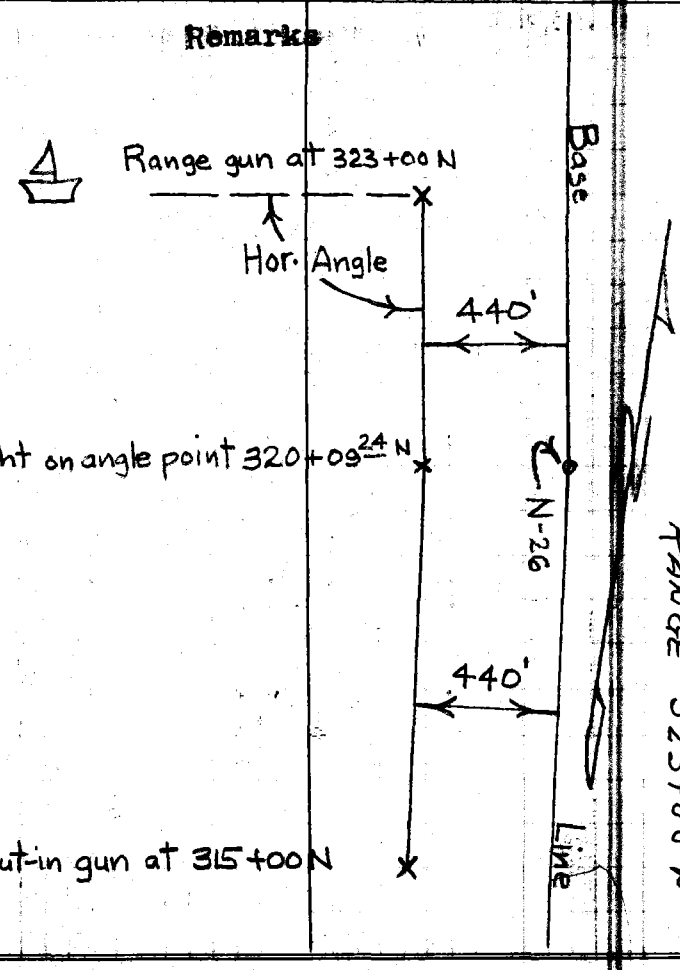
Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 60
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Notes GBM Date 11/10/53
No. ____ Date ____ Date ____ Map No. ____ Andrew C. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 323+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
323+00 N (440' Offset Line)	1	B&W	6:51	90°00'	
	2	R		89°40'	
	3	Y		90°00'	
	4	B&W	6:55	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	6:59	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
320+09.24 N angle point (440' Offset Line)	10	B&W	7:02	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	7:05	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	7:08	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	7:13	90°00'	
	20	R		90°00'	



76L298 307 10-51

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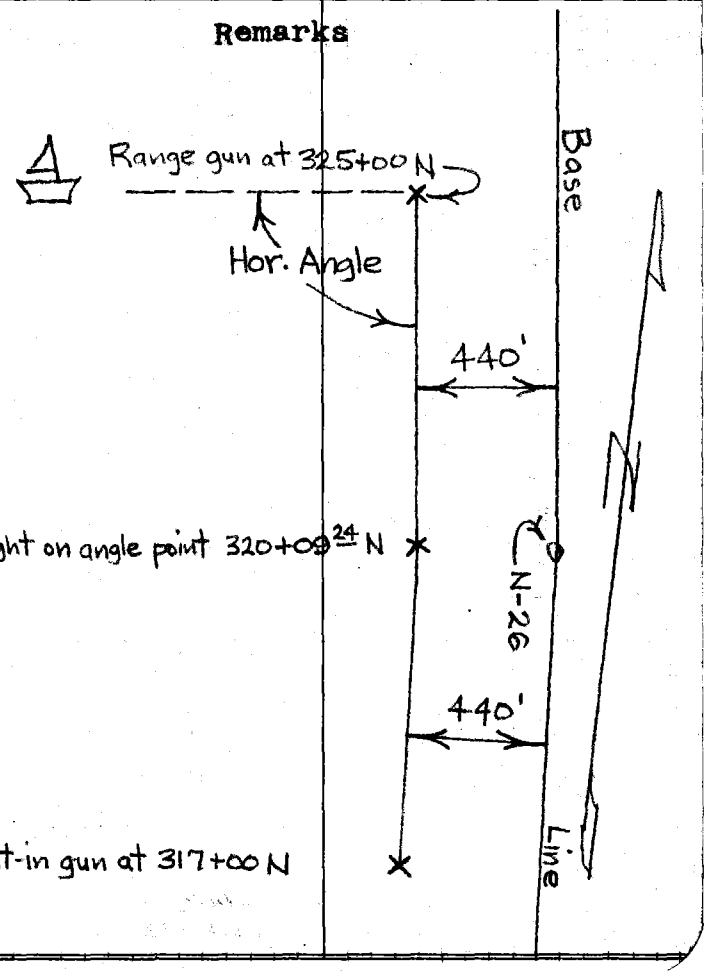
F.B. 1505 Pg. 186 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ No. ____ Profile
Survey of Beach Erosion Studies Date ____ Date ____ No. ____ X-Sec.
Survey by Blanchard Notes CEM 11/10/53 Notes Chkd. ____ Checked ____
Indexed C. Johnson Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	325+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
325+00N (440' offset Line) Range 325+00 N	1	B&W	7:31	90°00'		
	2	R		90°00'		
	3	Y		90°00'	Range gun at 325+00 N	
	4	B&W	7:37	90°00'		
	5	R		90°00'	Hor. Angle	
	6	Y		90°00'		
320+09 24/100 N angle point (440' offset Line)	7	B&W	7:40	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	7:43	90°00'		
	11	R		90°00'	Sight on angle point 320+09 24/100 N	
	12	Y		90°00'		
	13	B&W	7:47	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	B&W	7:50	90°00'		
	17	R		90°00'		
	18	Y		90°00'	Cut-in gun at 317+00 N	
	19	B&W	7:53	90°00'		
	20	R		90°00'		



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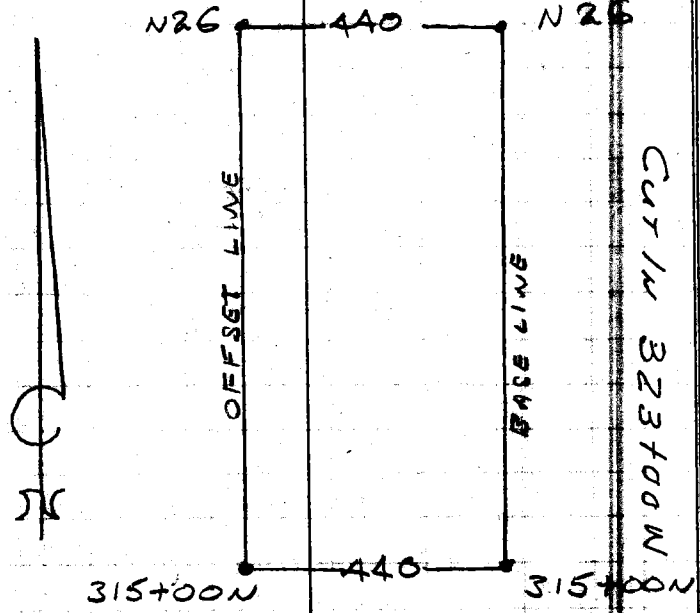
CUT-IN 323+00N

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. Sight		#	Color	Time	Hor. Ang.
315+00N 440 off	N26 440 off	1	B&W	6:51	66° 11'
		*2	R		60° 45'
		3	Y		57° 56'
		4	B&W	6:55	54° 57'
		5	R		52° 07'
		6	Y		48° 08'
		7	B&W	6:59	43° 18'
		8	R		39° 39'
		9	Y		35° 11'
		10	B&W	7:02	32° 09'
		11	R		28° 06'
		12	Y		24° 15'
		13	B&W	7:05	21° 15'
		14	R		19° 48'
		15	Y		18° 15'
		16	B&W	7:08	18° 30'
		17	R		17° 38'
		18	Y		16° 08'
		19	B&W	7:13	16° 53'
		20	R		14° 50'

Remarks



CUT IN 323+00N

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes Checked Date 11-10-53
Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 1505 Pg. 187

F.B. 1505 PG. 188 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

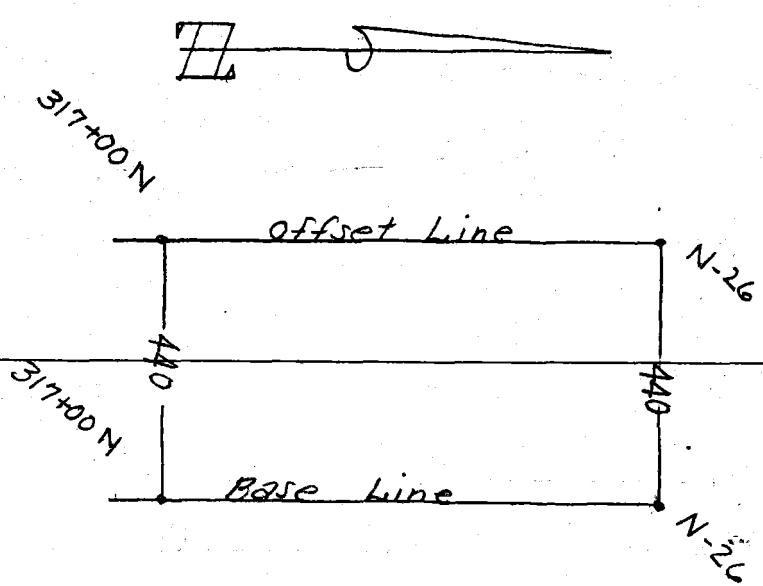
Indexed K. C. Johnson Date _____ Date _____ Date _____ No. _____

Cut In 325+00

317+00 N 440 Offset

N-26 440 Offset

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	Cut In 325+00 N
	1	B&W	7:31	66° 44'	
	2	R		63° 28'	
	3	Y		59° 45'	
	4	B&W	7:36	58° 11'	
	5	R		56° 12'	
	6	Y		54° 25'	
	7	B&W	7:39	52° 42'	
	8	R		49° 06'	
	9	Y		46° 10'	
	10	B&W	7:43	43° 35'	
	11	R		42° 18'	
	12	Y		40° 27'	
	13	B&W	7:47	37° 51'	
	14	R		35° 57'	
	15	Y		33° 55'	
	16	B&W	7:50	31° 20'	
	17	R		28° 20'	
	18	Y		25° 07'	
	19	B&W		22° 48'	
	20	R		21° 09'	



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STATION: BOAT 323+00 -1-

#	Color	Time	B. S.	H. I.	Head Depth	F. S.	Bottom	Tide	Adj. Depth	Reading	Remarks
1	B+W	6:51			29.8 28.6		29.0	4.4	24.6	2252	1812 + 440
2	R				27.9 25.2		26.1	4.4	21.7	1856	1416
3	Y				27.0 24.6		25.4	4.4	21.0	1717	1277
4	B+W	6:56			26.0 24.5		25.0	4.4	20.6	1580	1140
5	R		57		25.9 23.1		24.0	4.5	19.5	1468	1028
6	Y		58		24.8 23.0		23.6	4.5	19.1	1332	892
7	B+W	6:59			24.5 21.2		22.3	4.5	17.8	1193	753
8	R				23.8 20.6		21.7	4.5	17.2	1103	663
9	Y				20.3 19.5		19.8	4.5	15.3	1004	564
10	B+W	7:02			22.1 19.7		20.5	4.5	16.0	943	503
11	R				19.9 18.0		18.6	4.5	14.1	867	427
12	Y				19.0 16.0		17.0	4.6	12.4	800	360
13	B+W	7:05			16.9 14.9		15.6	4.6	11.0	751	311
14	R				15.2 12.2		13.2	4.6	8.6	728	288
15	Y				13.0 11.0		11.7	4.6	7.1	704	264
16	B+W	7:08			13.3 10.8		11.6	4.6	7.0	708	268
17	R				12.8 10.7		11.4	4.6	6.8	694	254
18	Y				11.1 9.2		9.8	4.7	5.1	671	231
19	B+W	7:12			11.9 10.1		10.7	4.7	6.0	683	243
20	R				9.4 8.0		8.5	4.7	3.8	652	212

BOAT 323+00 N

Profile No. ____ Date ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1506 Pg. 112
Notes Red. ____ Date ____ Survey of Beach Erosion Study
Notes Chk. ____ Date ____ Checked ____ Survey by Blanchard Jones
No. ____ Date 12-21-53 Date ____ Map No. ____ Chief J. Johnson Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT —	325+00 — N —	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B+W	7:31	31.1 / 29.0	29.7 ✓	4.9 ✓	24.8 ✓	2300	1860 + 440
2	R		29.2 / 27.9	28.3 ✓	5.0	23.3 ✓	2042	1602
3	Y		27.7 / 26.1	26.6 ✓	5.0	21.6 ✓	1812	1372
4	B+W	7:37	26.8 / 25.8	26.1 ✓	5.0	21.1 ✓	1729	1289
5	R		27.6 / 26.0	26.5 ✓	5.0	21.5 ✓	1635	1195
6	Y		26.0 / 25.0	25.3 ✓	5.0	20.3 ✓	1526	1086
7	B+W	7:40	25.8 / 24.9	25.2 ✓	5.1	20.1 ✓	1490	1050
8	R		26.2 / 23.0	24.1 ✓	5.1	19.0 ✓	1363	923
9	Y		25.0 / 22.9	23.6 ✓	5.1	18.5 ✓	1273	833
10	B+W	7:43	23.8 / 21.9	22.5 ✓	5.1	17.4 ✓	1205	765
11	R		24.0 / 22.6	23.1 ✓	5.1	18.0 ✓	1168	728
12	Y		23.6 / 22.0	22.5 ✓	5.1	17.4 ✓	1120	682
13	B+W	7:47	24.3 / 21.0	22.1 ✓	5.1	17.0 ✓	1062	622
14	R	48	24.6 / 20.0	21.5 ✓	5.1	16.4 ✓	1020	580
15	Y	49	22.2 / 20.5	21.1 ✓	5.2	15.9 ✓	978	538
16	B+W	7:50	21.7 / 19.8	20.4 ✓	5.2	15.2 ✓	927	487
17	R		20.0 / 18.7	19.1 ✓	5.2	13.9 ✓	871	431
18	Y		19.7 / 17.6	18.3 ✓	5.2	13.1 ✓	815	375
19	B+W	7:53	17.8 / 15.5	16.3 ✓	5.2 ✓	11.1 ✓	776	336
20	R		17.1 / 14.0	15.0 ✓	5.2	9.8 ✓	749	309

BOAT 325+00

440' offset added to cut-in distances

682
440
120

F.B. 1505 Pg. 190 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by Blanchard Notes ER 11/10/53 Notes Chkd. [illegible] Checked ____ X-Sec. ____
Indexed C. Johnson Date ____ Date 12-21-53 Date ____ No. ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	325+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°00'		
	22	B&W	7:56	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
325+00N / 320+09 24 angle point	25	B&W	7:58	89°16'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B&W	8:00	90°00'		

Range 325+00N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 191
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Norm CEM Date 11/10/53
No. ____ Date ____ Date ____ Map No. ____ Andrew Johnson Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
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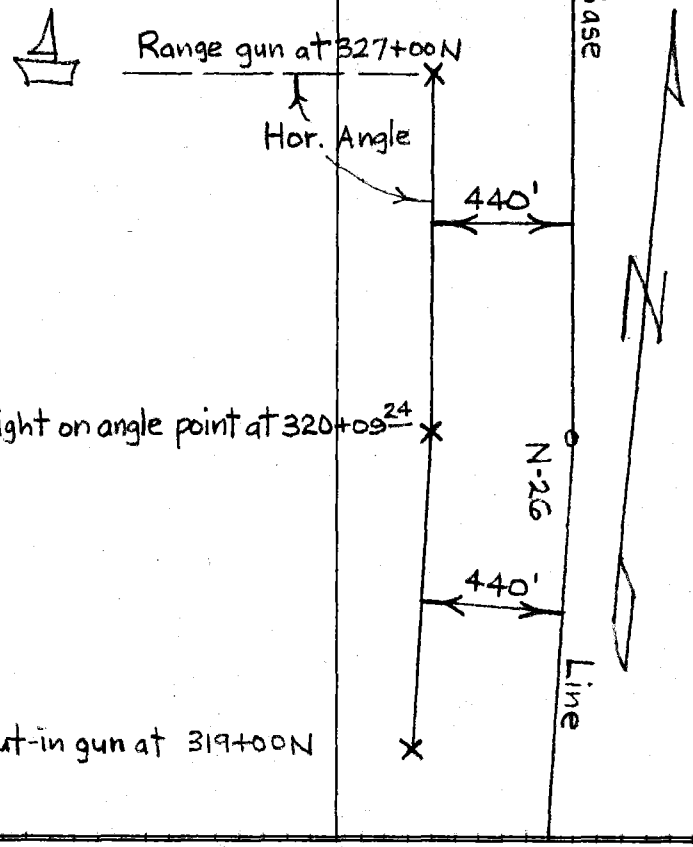
F.B. 1505 Pg. 192 Job No. 8412 Division No. ____ Notes Red ____ Plotted ____ Profile
Survey of Beach Erosion Study Date ____ Date ____ No. ____
Survey by Blanchard Notes CEM 11/10/53 Notes Chkd. ____ Checked ____ X-Sec.
Indexed C. Johnson Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 327+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
Range 327+00 N 327+00 N (440'	1	B&W	8:16	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	8:21	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	8:24	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
320+09 24 N angle point (440'	10	B&W	8:27	90°00'	
	11	R		90°00'	Sight on angle point at 320+09 24
	12	Y		90°25'	
	13	B&W	8:30	89°22'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	8:33	90°00'	
	17	R		90°00'	
	18	Y		90°00'	Cut-in gun at 319+00N
	19	B&W	8:36	90°00'	
	20	R		89°27'	



76L298 307 4-50

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

No. ____ Date ____ Date ____ Survey of Roads ____

Notes Chkd. ____ Checked ____ Survey by C.A.R. ____ Date ____

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

STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	325+00 N
Inst. Sight At	On	# Color	Time	Hor. Ang.	Remarks	
317+00 N 440 Offset	N-26 440 Offset	21 Y		19° 46'		
		22 B & W	7:56	18° 52'		
		23 R		18° 29'		
		24 Y		17° 42'		
		25 B & W	7:57	18° 06'		
		26 R		17° 00		
		27 Y		15° 35'		
		28 B & W	7:59	14° 40'		

CUT IN 325+00 N

F.B. 1505 Pg. 192 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

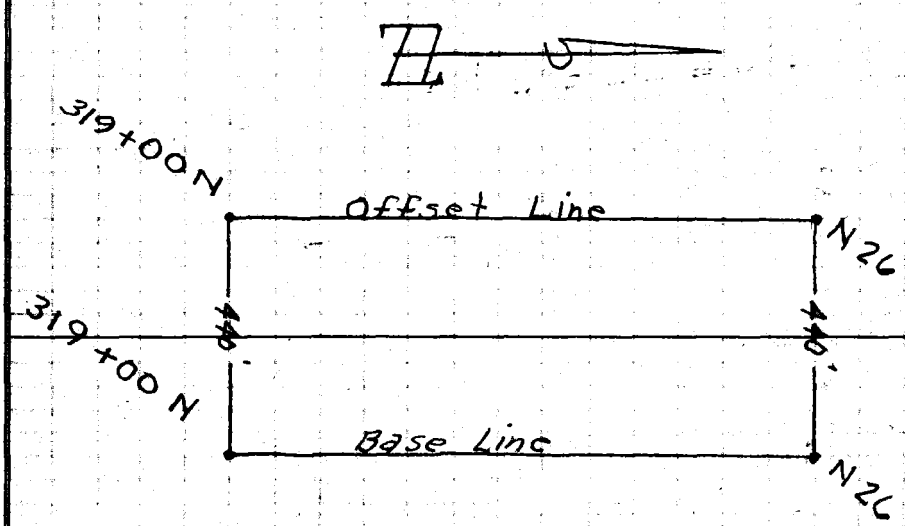
Indexed E. C. Johnson Date _____ Date _____ Date _____ No. _____

319+00 N 440' Offset

Cut In 327+00 N

N-26 440' Offset

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Cut In 327+00 N
	1	B & W	8:16	68° 18'	
	2	R		65° 46'	
	3	Y		64° 34'	
	4	B & W	8:21	63° 18'	
	5	R		62° 11'	
	6	Y		60° 48'	
	7	B & W	8:24	59° 17'	
	8	R		58° 14'	
	9	Y		55° 45'	
	10	B & W	8:27	53° 46'	
	11	R		52° 12'	
	* 12	Y		49° 58'	
	* 13	B & W	8:30	49° 20'	
	14	R		46° 27'	
	15	Y		44° 44'	
	16	B & W	8:33	43° 13'	
	17	R		39° 10'	
	18	Y		36° 05'	
	19	B & W	8:36	34° 16'	
	* 20	R		31° 50'	



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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		325+00 - N -
#	Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
21	Y		15.0 13.0	13.7	5.2	8.5	727	287 +440
22	B+W	7:56	15.1 12.8	13.6	5.2	8.4	713	273
23	R		14.0 11.5	12.3	5.3	7.0	707	267
24	Y		13.5 10.8 ?	11.7 ?	5.3	? 6.4 ?	695	255
25	B+W	7:58	13.1 11.7	12.2	5.3	6.9	701	~~261~~
26	R		12.8 9.6	10.7	5.3	5.4	685	245
27	Y		12.9 9.0	10.3	5.3	5.0	663	223
28	B+W	8:00	10.3 8.0	8.8	5.3	3.5	649	209

BOOT 325+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1505 Pg. [illegible]
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. [illegible] Checked ____ Survey by Blanchard Notes ER Date 11/10/[illegible]
No. ____ Date 12-[illegible] Date ____ Map No. ____ Chkd. Tolerance Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		327+00 N
#	Color Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B+W 8 16	33.0 30.0	31.0	5.5	25.5	2450	2010 + 440
2	R	31.0 29.2	29.8	5.5	24.3	2217	1777
3	Y	31.5 29.0	29.8	5.5	24.3	2122	1682
4	B+W 8 21	31.0 27.8	28.9	5.5	23.4	2030	1590
5	R	30.2 26.9	28.0	5.6	22.4	1956	1516
6	Y	30.0 27.0	28.0	5.6	22.4	1871	1431
7	B+W 8:24	29.0 26.5	27.3	5.6	21.7	1786	1346
8	R	28.6 26.0	26.9	5.6	21.3	1732	1292
9	Y	27.0 26.0	26.3	5.6	20.7	1614	1174
10	B+W 8 27	26.8 24.8	25.5	5.6	19.9	1531	1091
11	R 28	27.1 25.0	25.7	5.6	20.1	1471	1031
12	Y 29	27.0 24.0	25.0	5.6	19.4	1402	962
13	B+W 8:30	26.0 23.5	24.3	5.6	18.7	1360	920
14	R 31	25.9 23.0	24.0	5.6	18.4	1281	841
15	Y 32	24.1 22.8	23.2	5.7	17.5	1233	793
16	B+W 8 33	24.1 23.0	23.4	5.7	17.7	1192	752
17	R 34	23.6 22.7	23.0	5.7	17.3	1092	652
18	Y 35	22.7 21.6	22.0	5.7	16.3	1023	583
19	B+W 8:36	23.0 21.0	21.7	5.7	16.0	985	545
20	R	21.8 20.0	20.6	5.7	14.9	935	495

Boat 327+00 N

F. B. 1505 Pg. 196 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by Blanchard Notes ER 11/10/53 Notes Chkd. [illegible] Checked ____ X-Sec. ____
Indexed [illegible] C. Johnson Date ____ Date 12-21-53 Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	327+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
327+00N 320+09 24 N angle point	21	Y		90°00'		
	22	B&W	8:38	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	8:41	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B&W	8:42	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
	31	B&W	8:45	90°00'		
	32	R		90°00'		
	33	Y		90°00'		
	34	B&W	8:47	90°00'		
	35	R		90°00'		

Range 327+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 197

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes CEM Date 11/10/53

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

F.B. 1505 PG. 198 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed [redacted] Date _____ Date _____ Date _____ No. _____

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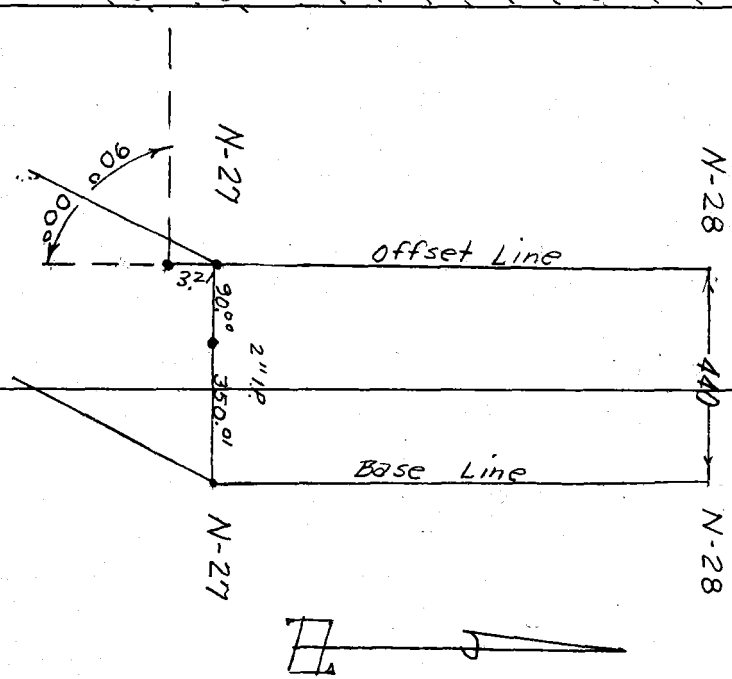
STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	329+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	BEW	9:36	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	BEW	9:41	90°28'		
	5	R		90°00'		
	6	Y		90°00'		
	7	BEW	9:44	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	BEW	9:46	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
	13	BEW	9:50	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	BEW	9:54	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	BEW	9:58	90°00'		
	20	R		90°00'		

329+00N 440 Offset

Range 329+00N

N-29 440 Offset



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Cut In 327+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y		30°26'	
	22	B & W	8:38	28°17'	
	23	R		26°43'	
	24	Y		25°05'	
	25	B & W	8:40	22°55'	
	26	R		21°20'	
	27	Y		21°27'	
	28	B & W	8:42	21°44'	
	29	R		20°20'	
	30	Y		19°15'	
	31	B & W	8:45	19°06'	
	32	R		18 35	
	33	Y		18 15	
	34	B & W	8:47	18 15	
	35	R		16:59	
	36	Y			

319+00 N 440 Offset

N-26 440 Offset

Cut In 327+00 N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by EHB Notes CES Date 11-10-5[illegible]
No. Date Date Map No. Indexed Date

F. B. 1505 Pg. 1[illegible]

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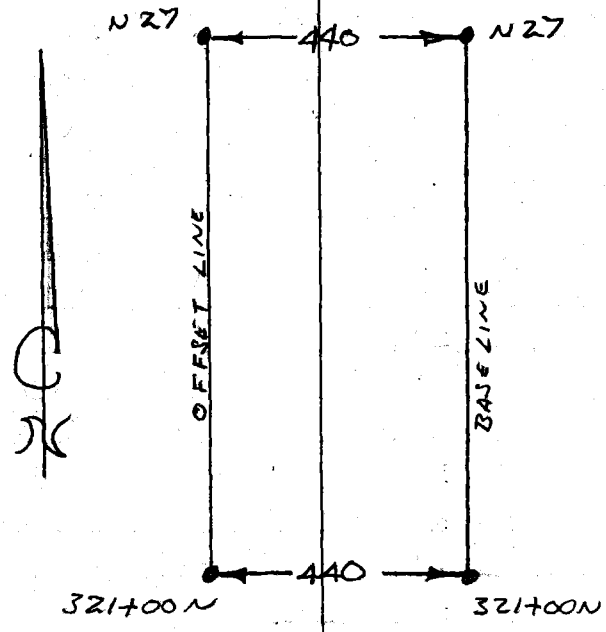
STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 329+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
321+00N 440 off	N-27 440 off	1	B+W	9:35	67° [illegible]'	
		2	R		60° [illegible]'	
		3	Y		59° [illegible]'	
		*4	B+W	9:40	56° [illegible]'	
		5	R		55° [illegible]'	
		6	Y		53° [illegible]'	
		7	B+W	9:43	50° [illegible]'	
		8	R		48° 23'	
		9	Y		46° 29'	
		10	B+W	9:46	43° [illegible]'	
		11	R		39° 33'	
		12	Y		35° 52'	
		13	B+W	9:49	31° 48'	
		14	R		27° 25'	
		15	Y		22° 53'	
		16	B+W	9:54	22° 04'	
		17	R		19° 48'	
		18	Y		18° 03'	
		19	B+W	9:57	16° 52'	
		20	R		15° 42	



Profile
Plotted
Date
No.
X-Sec.
Checked
Date
No.
Notes Red.
Date
Notes Chkd.
Date
Job No. 8+W Division No.
Survey of Benchard Erosion Studies
Survey by Blanchard Notes Robbins
Indexed K. C. Johnson Date
Pg. 200
1505

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		327+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		22.2 / 18.8	19.9 ✓	5.7	14.2 ✓	910	470 +440
22	B&W	8:38	20.6 / 18.3	19.1 ✓	5.7 ✓	13.4 ✓	870	430
23	R		20.2 / 17.8	18.6 ✓	5.7	12.9 ✓	843	403
24	Y		18.1 / 16.8	17.2 ✓	5.7	11.5 ✓	814	374
25	B&W	8:39	17.0 / 15.3	15.9 ✓	5.7	10.2 ✓	778	338
26	R	40	15.8 / 14.0	14.6 ✓	5.7	8.9 ✓	752	312
27	Y	41	16.2 / 14.0	14.7 ✓	5.8	8.9 ✓	754	314
28	B&W	8:42	17.0 / 14.9	15.6 ✓	5.8	9.8 ✓	759	319
29	R	43	15.0 / 13.3	13.9 ✓	5.8	8.1 ✓	736	296
30	Y	44	13.8 / 12.8	13.1 ✓	5.8	7.3 ✓	719	279
31	B&W	8:45	15.3 / 11.5	12.8 ✓	5.8	7.0 ✓	717	277
32	R		14.6 / 12.8	13.4 ✓	5.8	7.6 ✓	709	269
33	Y		13.2 / 11.5	12.1 ✓	5.8	6.3 ✓	704	264
34	B&W	8:[illegible]	13.2 / 11.8	12.3 ✓	5.8 ✓	6.5 ✓	704	264
35	R		13.2 / 9.5	10.7 ✓	5.8	4.9 ✓	684	244

Boat 327+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by Blanchard Notes ER Date 11/10/53
No. ____ Date 12-21-53 Date ____ Map No. ____ Date ____ Date ____

F.B. 1505 Pg. 201

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		329+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	9:36	32.8 30.0	30.9	6.0	24.9	2389	1949 +440
2	R		29.7 26.0	27.2	6.0	21.2	1849	1409
3	Y		28.3 26.4	27.0	6.0	21.0	1772	1332
4	B&W	9:40	28.2 26.0	26.7	6.0	20.7	1680	1240
5	R		27.1 25.0	25.7	6.0	19.7	1596	1156
6	Y		25.8 24.2	24.7	6.0	18.7	1512	1072
7	B&W	9:43	26.0 24.7	25.1	6.0	19.1	1416	976
8	R		25.5 24.1	24.6	6.0	18.6	1340	900
9	Y		25.0 23.1	23.7	6.0	17.7	1282	842
10	B&W	9:46	25.8 22.3	23.5	5.9	17.6	1190	750
11	R		22.5 21.2	21.6	5.9	15.7	1101	661
12	Y		22.2 20.8	21.3	5.9	15.4	1018	578
13	B&W	9:50	20.7 19.3	19.8	5.9	13.9	936	496
14	R		19.9 17.0	18.0	5.9	12.1	855	415
15	Y		17.6 13.5	14.9	5.9	9.0	778	338
16	B&W	9:54	16.8 14.0	14.9	5.9	9.0	764	324
17	R		15.0 12.4	13.3	5.9	7.4	728	288
18	Y		13.0 11.7	12.1	5.9	6.2	701	261
19	B&W	9:58	12.2 9.7	10.5	5.9	4.6	682	242
20	R		10.1 8.5	9.0	5.9	3.1	665	225

Boat 329+00N

F. B. 1505 Pg. 202 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by Blanchard Notes CEM 11/10/53 Notes Chkd. Checked
Indexed R. C. Johnson Date Date 12-21-53 Date No.

76L298 307 10-51

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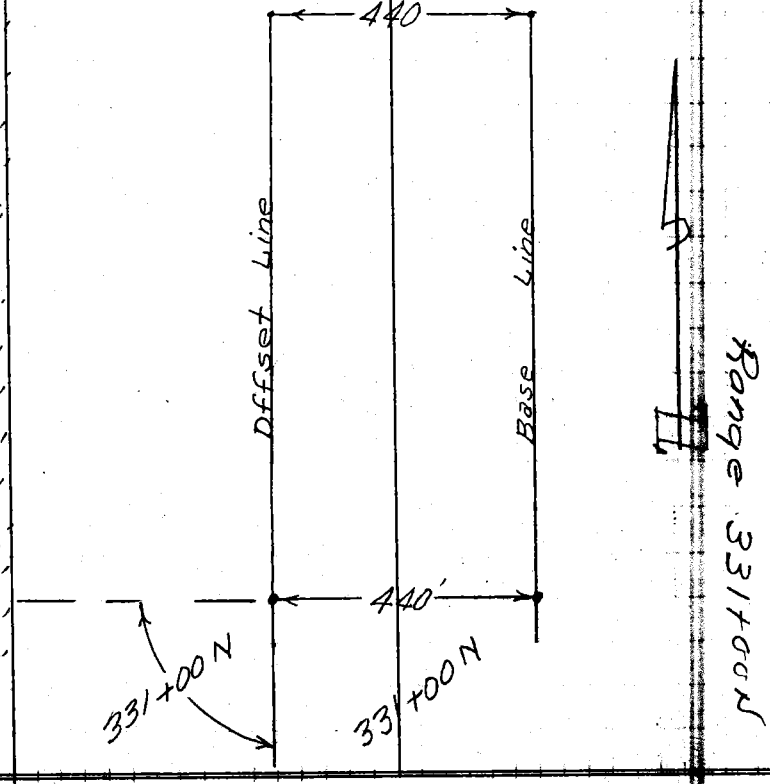
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Range	331 +00N			

Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
331 +00 N 440 Offset	N-27 440 Offset	1	B & W	10:12	90° 00'	
		2	R		90° 00'	
		3	Y		89° 47'	
		4	B & W	10:16	90° 00'	
		5	R		90° 00'	
		6	Y		90° 00'	
		7	B & W	10:19	90° 00'	
		8	R		90° 00'	
		9	Y		90° 00'	
		10	B & W	10:22	90° 00'	
		11	R		90° 00'	
		12	Y		90° 00'	
		13	B & W	10:25	90° 00'	
		14	R		90° 00'	
		15	Y		90° 00'	
		16	B & W	10:28	90° 00'	
		17	R		90° 00'	
		18	Y		90° 00'	
		19	B & W	10:31	90° 00'	
		20	R		90° 00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 203
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. K.C. Notes C.E.S. Date 11-10-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1505 PG. 204 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

331+00N 440' Offset

Range 331+00N

N-27 - 440' Offset

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Range
	21	Y		90° 00'	331+00N

76L298 307 10-51

PLEASE RETURN TO

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76L298 307 4-50

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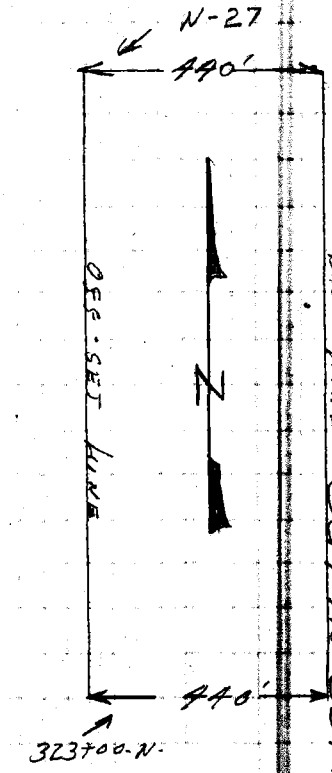
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 331+00 N
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
323+00 440' OFF	440' OFF N-27	1	B+W	10:11	68°07'	
		2	R		64°11'	
		3	Y		60°55'	
		4	B+W	10:16	59°11'	
		5	R		57°59'	
		6	Y		56°13'	
		7	B+W	10:19	54°10'	
		8	R		51°37'	
		9	Y		49°12'	
		10	B+W	10:21	47°30'	
		11	R		45°26'	
		12	Y		42°17'	
		13	B+W	10:24	39°28'	
		14	R		35°49'	
		15	Y		31°43	
		16	B+W	10:27	29°34'	
		17	R		26°06'	
		18	Y		23°24'	
		19	B+W	10:30	19°45'	
		20	R		17°29'	



CUT IN 331+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 20
No. ____ Date ____ Date ____ Survey of Beach Grossman Studios
X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD Date 4/16/53
No. ____ Date ____ Date ____ Map No. ____ Indexed Job Name ____ Date ____

F. B. 1505 1505 Pg. 206

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

Survey of Beach Erossion Studies Date Date No.

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

Indexed [redacted] C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
	21	Y		16°31'	
	22	B+W			
	23	R			
	24	Y			
	25	B+W			
	26	R			
	27	Y			
		B+W			
		R			
		Y			
		B+W			
		R			
		Y			
		B+W			
		R			
		Y			
		B+W			

Cut-In 331+00 N

323+00 N - 440 OFF

N-27 440 OFF

Cut-In 331+00 N

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		331+00N
# Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
		33.1					
1 B&W	10:12	31.0	31.7	5.9	25.8	2342	1902
		31.0					
2 R		29.0	29.7	5.9	23.8	2030	1590
		29.0					
3 Y		26.9	27.6	5.9	21.7	1810	1370
		29.1					
4 B&W	10:16	25.6	26.8	5.9	20.9	1736	1296
		28.1					
5 R		25.9	26.6	5.9	20.7	1676	1236
		28.0					
6 Y		25.4	26.3	5.9	20.4	1598	1158
		26.5					
7 B&W	10:19	25.0	25.5	5.8	19.7	1515	1075
		26.0					
8 R		23.6	24.4	5.8	18.6	1423	983
		26.0					
9 Y		23.5	24.3	5.8	18.5	1342	902
		24.9					
10 B&W	10:22	24.0	24.3	5.8	18.5	1291	851
		24.3					
11 R		23.0	23.4	5.8	17.6	1234	794
		24.9					
12 Y		21.8	22.8	5.8	17.0	1149	709
		22.0					
13 B&W	10:25	21.0	21.3	5.8	15.5	1085	645
		22.8					
14 R		20.9	21.5	5.8	15.7	1007	567
		20.8					
15 Y		18.2	19.1	5.8	13.3	925	485
		19.8					
16 B&W	10:28	17.0	17.9	5.8	12.1	884	444
		16.8					
17 R		15.8	16.1	5.8	10.3	825	385
		15.3					
18 Y		14.2	14.6	5.8	8.8	780	340
		12.9					
19 B&W	10:31	11.0	11.6	5.8	5.8	722	282
		11.0					
20 R		9.0	9.7	5.8	3.9	687	247

BOAT 331+00N

Profile No. ____ Notes Rod ____ Plotted ____ Job No. 5440 Division No. ____ F. B. 1505 PG. 297

Inked Date ____ Notes Checked Date ____ Plotted Date ____ Survey of Reclamation District 537 Levees

No. ____ Date 12-21-53 Checked Date ____ Map No. ____ Inked Date ____ Surveyed by ____ Chief ____ Party Chief ____

F. B. 1505 Pg. 208 Job No. 8417 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by EHB Notes CEM 11/10/53 Notes Chkd RAW Checked X-Sec.

Indexed C. Johnson Date Date 12-21-53 Date No.

Boat 331+00N

STATION	B.B.	H.I.	F.S.	ELEV.	BOAT	331+00N
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		11.0 7.1	8.4	5.8	2.6	670	230

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Range	333+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	B+W	9:58	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	10:00	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	10:05	[illegible]		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	10:06	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
	13	B+W	10:[illegible]	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	10:12	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	B+W	10:18	90° 00'		
	20	R		90° 00'		

333+00 N

Range 333+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 209
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes J.G.G. Date 11-12-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 8-53

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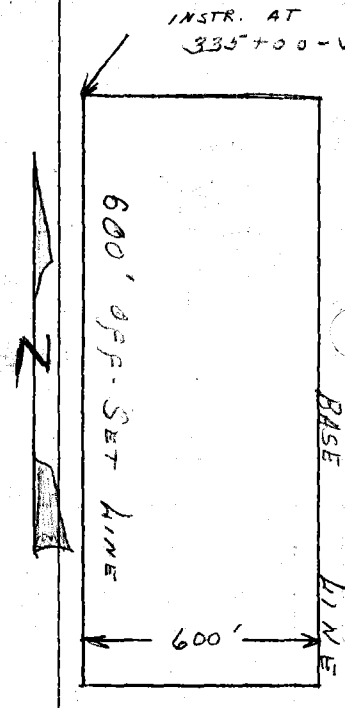
F. B. 1505 Pg. 210 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by EHB Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Range 335+00 - N -
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1.	B&W	10:33	87°51'	
	2.	R		90°00'	
	3	Y		90°00'	
	4.	B&W	10.36	87°43'	
	5	R		90°00'	
	6	Y		87°51'	
	7	B&W	10:39	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	10:41	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	10:43	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	10:46	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	10:51	90°00'	
	20	R		89°55'	

335+00 - W -
Range 335+00 N



76L298 307 10-51

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ENGINEERING BLDG.

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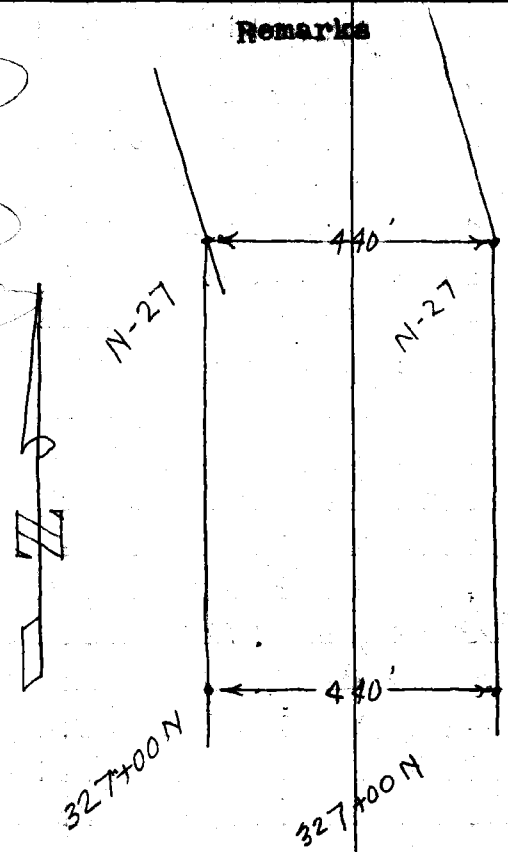
CUT-IN 333+00N

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
327+00N 440 Offset	N-27 440' Offset	1	B+W	9:58	73° 43'
		2	R		72° 11'
		3	Y		70° 35'
		4	B+W	10:01	68° 38'
		5	R		66° 58'
		6	Y		65° 06'
		7	B+W	10:04	62° 42'
		8	R		60° 45'
		9	Y		59° 00'
		10	B+W	10:06	57° 00'
		11	R		54° 36'
		12	Y		51° 57'
		13	B+W	10:09	49° 18'
		14	R		46° 26'
		15	Y		43° 14'
		16	B+W	10:13	39° 38'
		17	R		37° 58'
		18	Y		30° 38'
		19	B+W	10:18	31° 13'
		20	R		29° 31'

Remarks



CUT IN 333+00N

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 211

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

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

Date ____ Date ____ Map No. ____ Field Jobson Date ____

F.B. 1505 Pg: 212 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

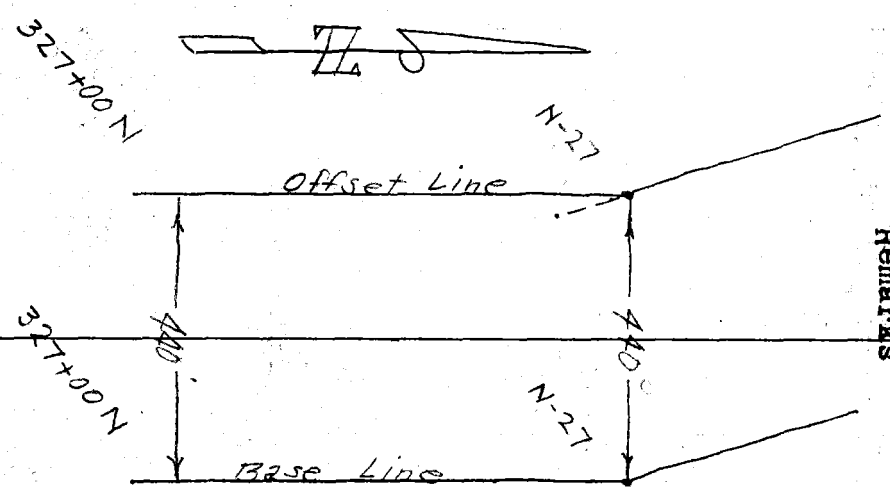
Indexed C. Johnson Date _____ Date _____ Date _____ No. _____

327+00 N. Offset 440

Cut In 335+00 N

N-27 440 Offset

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	Cut In 335+00 N
	1	B & W	10:34	67° 31'	
	2	R		65° 33'	
	3	Y		63° 49'	
	4	B & W	10:36	62° 29'	
	5	R		60° 45'	
	6	Y		58° 58'	
	7	B & W	10:39	57° 05'	
	8	R		55° 20'	
	9	Y		53° 34'	
	10	B & W	10:41	51° 13'	
	11	R		49° 03'	
	12	Y		46° 47'	
	13	B & W	10:44	43° 24'	
	14	R		40° 27'	
	15	Y		37° 38'	
	16	B & W	10:46	34° 49'	
	17	R		32° 52'	
	18	Y		29° 46'	
	19	B & W	10:51	28° 29'	
	20	R		26° 27'	



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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		333+00N
# Color	Time	Bottom	Tide	Adj.			
1 B&W	9:57	30.0 / 29.0	29.3	4.8	24.5	2402	1962+440
2 R		30.0 / 28.0	28.7	4.8	23.9	2307	1867
3 Y		30.0 / 27.9	28.6	4.9	23.7	2142	1702
4 B&W	10:00	30.1 / 26.5	27.7	4.9	22.8	1953	1513
5 R		27.8 / 25.5	26.3	4.9	21.4	1851	1411
6 Y		26.0 / 24.9	25.3	4.9	20.4	1733	1293
7 B&W	10:03	26.9 / 22.8	24.2	4.9	19.3	1603	1163
8 R		25.6 / 23.0	23.9	4.9	19.0	1511	1071
9 Y		27.9 / 22.0	24.0	4.9	19.1	1521	1091 large roller
10 B&W	10:06	23.5 / 20.5	21.5	4.9	16.6	1363	923
11 R		24.9 / 20.0	21.6	4.9	16.7	1283	843
12 Y		24.3 / 20.0	21.4	4.9	16.5	1206	766
13 B&W	10:08	23.1 / 19.0	20.4	4.9	15.5	1137	697
14 R		20.6 / 18.6	19.3	4.9	14.4	1070	630
15 Y		19.0 / 17.1	17.7	4.9	12.8	1004	564
16 B&W	10:12	18.8 / 15.4	16.5	4.9	11.6	1937	497
17 R	14	16.8 / 14.4	15.2	5.0	10.2	908	468
18 Y	16	16.0 / 10.0	12.0	5.0	7.0	795	355
19 B&W	10:18	12.5 / 11.0	11.5	5.0	6.5	363	363
R		11.8 / 9.0	9.9	5.0	4.9	780	340

Boat 333+00 N

Profile Notes Red_____ Plotted_____ Job No. 8412 Division No.

No. Date Notes Chkd. Date Chkd. Date Date 12-21-53 Date Map No. Date

F. B. 1505 P. 27

76L298 307 4-50

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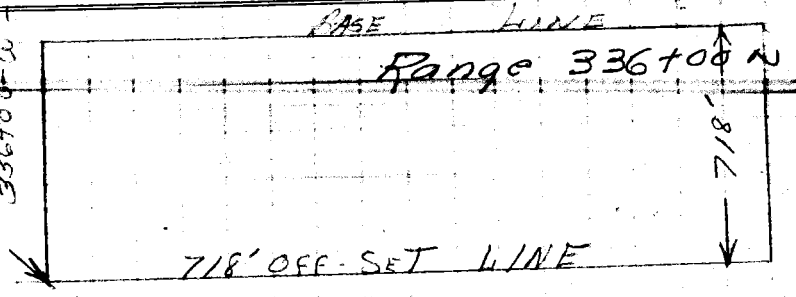
STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		335+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:33	32.0 30.1	30.7	5.1	25.6	2260	1820 + 440
2	R		31.0 29.2	29.8	5.1	24.7	2112	1672
3	Y		29.2 27.2	27.9	5.1	22.8	1990	1550
4	B&W	10:36	31.3 27.7	28.9	5.1	23.8	1895	1455
5	R		29.0 26.0	27.0	5.1	21.9	1810	1370
6	Y		28.4 25.8	26.7	5.1	21.6	1708	1268
7	B&W	10:38	26.0 23.9	24.6	5.1	19.5	1622	1182
8	R		25.1 22.9	23.6	5.1	18.5	1549	1109
9	Y		24.6 23.0	23.5	5.1	18.4	1480	1040
10	B&W	10:41	24.7 21.8	22.8	5.1	17.7	1399	959
11	R		22.9 20.4	21.2	5.1	16.1	1325	885
12	Y		22.5 20.5	21.2	5.1	16.1	1260	820
13	B&W	10:43	20.0 18.0	18.7	5.1	13.6	1168	728
14	R		21.1 17.5	18.7	5.1	13.6	1098	658
15	Y		19.0 16.6	17.4	5.1	12.3	1033	593
16	B&W	10:46	16.7 14.0	14.9	5.1	9.8	978	538
17	R		15.0 12.9	13.6	5.1	8.5	938	498
18	Y		14.9 12.0	13.0	5.2	7.8	880	440
19	B&W	10:51	15.5 13.2	14.0	5.2	8.8	856	416
20	R		12.1 9.0	10.0	5.2	4.8	820	380

Boat 335+00 2

F. B. 1555 Pg. 214 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes CEM Notes Chkd. Checked
Indexed Date Date 11/12/53 Date 12-21-53 Date No.

F. B. Pg. 215

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by EH.B Notes ER Date 11/12/53
Date ____ Date ____ Map No. ____ Endorsed G. Johnson Date ____



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1	B+W	11:02	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B+W	11:06	90°00'	
	5	R		89°47	
	6	Y		90°00'	
	7	B+W	11:08	90°00'	
	8	R		89°44'	
	9	Y		90°00'	
	10	B+W	11:11	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B+W	11:13	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B+W	11:16	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B+W	11:19	90°	
	20	R			

336+00 W

336+00 - W - 718 OFF

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76L298 307 8-53

F. B. 1505 Pg. 216 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

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

Indexed Date Date Date No.

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

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76L228 307 8-53

76L298 307 10-51

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ENGINEERING BLDG.

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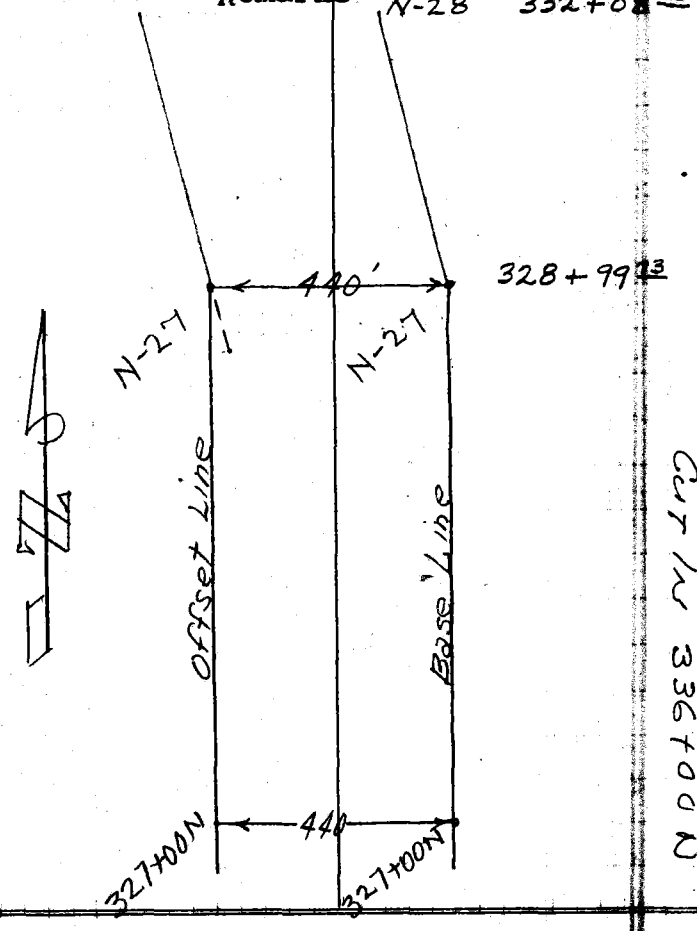
Cut In 336+00 N

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
327+00	440' Offset	1	B & W	11:03	64°56'
		2	R		63°24'
		3	Y		61°23'
		4	B & W	11:07	59°55'
		5	R		57°56'
		6	Y		56°07'
		7	B & W	11:09	54°33'
		8	R		52°57'
		9	Y		50°47'
		10	B & W	11:12	48°20'
		11	R		45°57'
		12	Y		43°59'
		13	B & W	11:14	41°31'
		14	R		39°03'
		15	Y		35°56'
		16	B & W	11:17	33°53'
		17	R		30°39'
		18	Y		28°10'
		19	B & W	11:21	25°36'

Remarks



Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion Studies Date 11-12-53

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by E. H. BLANCHARD CES Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1505 Pg. 217

F.B. PG.

Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

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

Indexed Date Date Date No.

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY

ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

76L298 307 8-53

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	336+00N	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	B&W	11:03	33.0 29.4	30.6 ✓	5.2 ✓	25.4 ✓	2280	1840 + 440
2	R		31.1 29.3	29.9 ✓	5.2	24.7 ✓	2158	1718
3	Y		31.7 27.4	28.8 ✓	5.2	23.6 ✓	2028	1588
4	B&W	11:06	28.8 27.5	27.6 ✓	5.2	22.4 ✓	1933	1493
5	R		28.3 25.8	26.6 ✓	5.2	21.4 ✓	1812	1372 shed clothing and
6	Y		28.0 25.2	26.1 ✓	5.2	20.9 ✓	1729	1289 prepared to swim
7	B&W	11:09	26.1 24.0	24.7 ✓	5.2	19.5 ✓	1657	1217
8	R		24.6 23.0	23.5 ✓	5.2	18.3 ✓	1581	1141
9	Y		24.0 22.3	22.9 ✓	5.2	17.7 ✓	1504	1064
10	B&W	11:11	22.9 21.0	21.6 ✓	5.2	16.4 ✓	1420	980
11	R		23.0 18.9	20.3 ✓	5.2	15.1 ✓	1340	900
12	Y		20.0 18.9	19.3 ✓	5.2	14.1 ✓	1280	840
13	B&W	11:13	19.2 17.0	17.7 ✓	5.3	12.4 ✓	1213	773
14	R		17.1 16.0	16.4 ✓	5.3	11.1 ✓	1146	706
15	Y		17.9 15.0	16.0 ✓	5.3	10.7 ✓	1050	610
16	B&W	11:16	18.2 14.0	15.4 ✓	5.3	10.1 ✓	1025	585
17	R		15.0 13.2	13.8 ✓	5.3	8.5 ✓	956	516
18	Y		13.2 11.9	12.3 ✓	5.3	7.0 ✓	905	465
19	B&W	11:20	11.7 10.7	11.0 ✓	5.3 ✓	5.7 ✓	854	414 MIRACLE!
20								BOAT NOT SUNK !! (not yet)

Boat 336+00N

Profile Notes Red ____ Notes Blue ____ Plotted ____ Job No. 2412 Division No. ____
No. ____ Date ____ Date ____ Survey of BERGER & RUSSAU STREET
X-Sec. ____ Notes Chkd 2/24/53 Checked ____ Survey By BLANCHARD Notes CEM Date 11/12/53
No. ____ Date 2-24-53 Date ____ Map No. ____ Notes Jackson Date ____

F. B. 1505 Pg.

F. B. 1505 Pg. 218 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

761298 307 8-53

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76L298 307 8-53

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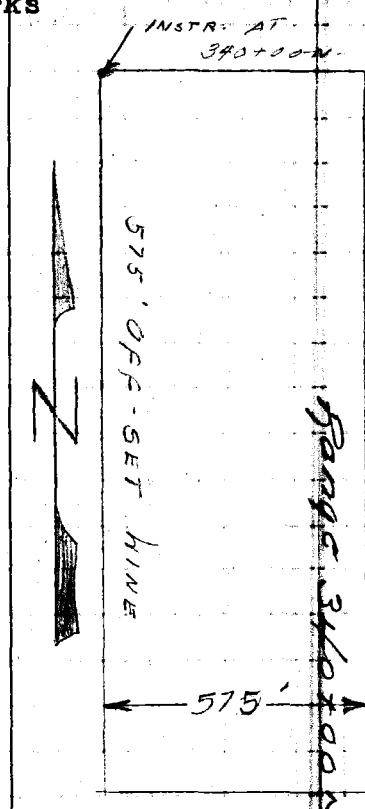
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 340+00-N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
340+00-N	1	B&W	7:31	89°42'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	7:34	90°00'	
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	7:38	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	7:40	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	7:43	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	7:46	90°00	
	17	R	7:54	90°00	
	18	Y	8:00	90°00'	
	19	B&W	8:00	90°00'	
	20	R			



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1505 Pg. 219
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes Robbins Date 11/12/52
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1505 PG. 220 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

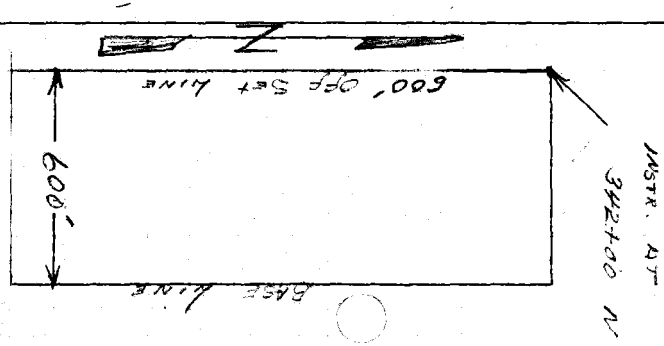
Boat 342+00N

342+00 N 600' off-set

340+00 N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1	Blue	8:10	90°00'	
	2	"		90°00'	
	3	"		89°50'	
	4	Blue	8:14	90°20'	
	5	"		89°47'	
	6	"		90°00'	
	7	Blue	8:17	90°00'	
	8	"		90°00'	
	9	"		90°00'	
	10	Blue	8:21	90°00'	
	11	"		90°00'	
	12	"		90°00'	
	13	Blue	8:24	90°00'	
	14	"		90°00'	
	15	"		90°00'	
	16	Blue	8:27	90°00'	
	17	"		90°00'	
	18	"		90°00'	
	19	Blue	8:34	90°00'	
	20	"		90°00'	

BOAT RANGE 342+00 -N-



76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

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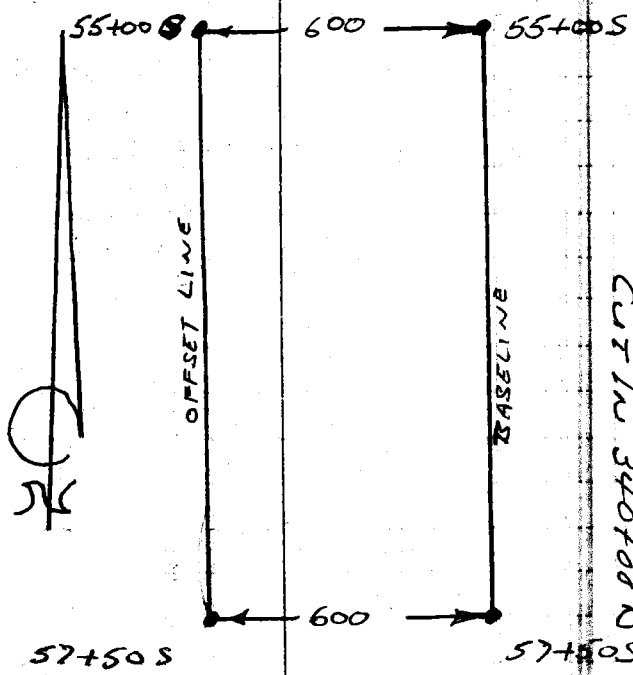
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time Hor. Ang.
55+00S 600 OFFSET	57+50S 600 OFFSET	1	B&W	7:32 74° 16'
		2	R	72° 36'
		3	Y	70° 45'
		4	B&W	7° 35' 68° 56'
		5	R	67° 23'
		6	Y	65° 22'
		7	B&W	7:38 63° 34'
		8	R	62° 48'
		9	Y	61° 18'
		10	B&W	7:40 59° 32'
		11	R	57° 50'
		12	Y	56° 19'
		13	B&W	7:43 54° 10'
		14	R	51° 23'
		15	Y	49° 48'
		16	B&W	7:46 47° 55'
		17	R	7:54 46° 13'
		18	Y	8:00 44° 02'
		19	B&W	8:00 41° 10'

COT-IN 340+00 N

Remarks



CUT IN 340+00 N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes CES Date 11-12-53
No. Date Date Map No. Date

F.B. 1505 Pg. 221

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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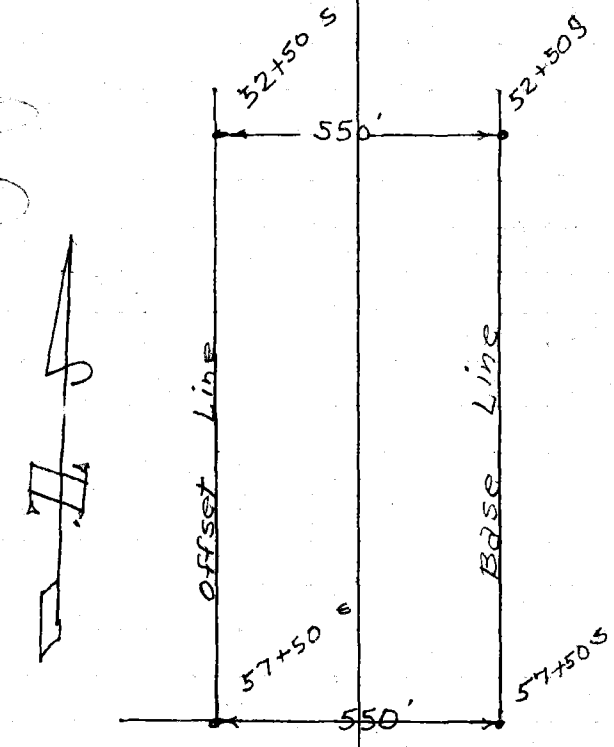
Do not extend notes this side of this line.

F. B. 1505 Pg. 122 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by EHB | Notes Shoemaker | Notes Chkd. | Checked | X-Sec.
Indexed C. Johnson | Date | Date | Date | No.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
52+50 S 550' Offset	57+50 S 550' Offset	1	B & W	8:11	72° 44'
		2	R		71° 28'
		3	Y		70° 24'
		4	B & W	8:14	69° 18'
		5	R		67° 45'
		6	Y		66° 13'
		7	B & W	8:18	64° 54'
		8	R		63° 09'
		9	Y		62° 03'
		10	B & W	8:21	60° 10'
		11	R		58° 23'
		12	Y		56° 22'
		13	B & W	8.24	53° 56'
		14	R		50° 59'
		15	Y		48° 43'
		16	B & W	8:27	46° 00'
		17	R		43° 46'
		18	Y		40° 17'
		19	B & W	8:34	38° 49'
		20	R		35° 49'

Cut In 342+00 N

Remarks



78L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	340+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	7:31	31.0 29.1	29.7	3.7	26.0	2370
2	R		30.2 29.0	29.4	3.7	25.7	2200
3	Y		29.6 26.0	27.2	3.7	23.5	2048
4	B&W	7:34	28.6 25.0	26.2	3.7	22.5	1926
5	R		27.0 24.9	25.6	3.7	21.9	1830
6	Y		25.7 23.9	24.5	3.7	20.8	1721
7	B&W	7:37	23.6 22.0	22.5	3.7	18.8	1630
8	R		24.1 22.0	22.7	3.7	19.0	1600
9	Y		24.1 21.5	22.4	3.7	18.7	1531
10	B&W	7:39	22.5 20.5	21.2	3.7	17.5	1462
11	R		21.3 18.1	19.2	3.7	15.5	1397
12	Y		19.4 16.9	17.7	3.7	14.0	1345
13	B&W	7:43	20.0 15.0	16.7	3.8	12.9	1272
14	R		19.0 14.0	15.7	3.8	11.9	1192 Extremely large rollers
15	Y		16.5 14.0	14.8	3.8	11.0	1147
16	B&W	7:47	16.7 14.9	14.9	3.8	11.1	1098
17	R		16.8 13.9	14.9	3.8	11.1	1058
18	Y		14.1 12.5	13.0	3.8	9.2	1008
19	B&W	8:00	13.5 12.0	12.5	3.9	8.6	945

2354 / 16 2370

BOAT 340+00N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BERCH EROSION STUDY
X-Sec. Notes Chkd. Checked Survey By BLANCHARD Notes CEM Date 11/12/53
No. Date 12-21-53 Date Map No. Date

F. B. 1505 Pg. 223

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F. B. 1505 Pg. 22K | Job No. 8412 Division No. 3 Notes Red. Plotted No. Profile
Survey of 3 Bar Ranch Estates Tract Date X-Sec.
Survey by H. BLANCHARD Notes CEM 11/12/53 Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	342 +00N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	8:10	30.5 28.4	29.1	3.9	25.2	2305
2	R		29.3 27.6	28.2	4.0	24.2	2198
3	Y		30.0 27.1	28.1	4.0	24.1	2116
4	B&W	8:14	28.9 27.0	27.6	4.0	23.6	2033
5	R		28.0 26.5	27.0	4.0	23.0	1940
6	Y		28.1 26.2	26.8	4.0	22.8	1832
7	B&W	8:17	27.5 24.5	25.5	4.0	21.5	1760
8	R		25.6 23.0	23.9	4.0	19.9	1670
9	Y		24.8 23.0	23.6	4.0	19.6	1620
10	B&W	8:20	24.4 22.0	22.8	4.0	18.8	1534
11	R		24.0 21.0	22.0	4.0	18.0	1463
12	Y		24.0 20.8	21.9	4.1	17.8	1390
13	B&W	8:24	23.1 20.0	21.0	4.1	16.9	1305
14	R		19.8 18.0	18.6	4.1	14.5	1210
15	Y		20.0 17.7	18.5	4.1	14.4	1145
16	B&W	8:27	19.1 16.3	17.2	4.1	13.1	1072
17	R	29	17.0 15.2	15.8	4.1	11.7	1020
18	Y	31	16.1 13.9	14.6	4.1	10.5	940
19	B&W	8:33	15.4 13.0	13.8	4.2	9.6	910
20	R		16.5 12.0	13.5	4.2	9.3	848

Bar 3 342+00N

2110 +6
2033
1930 +10

76FS098 247 4-53

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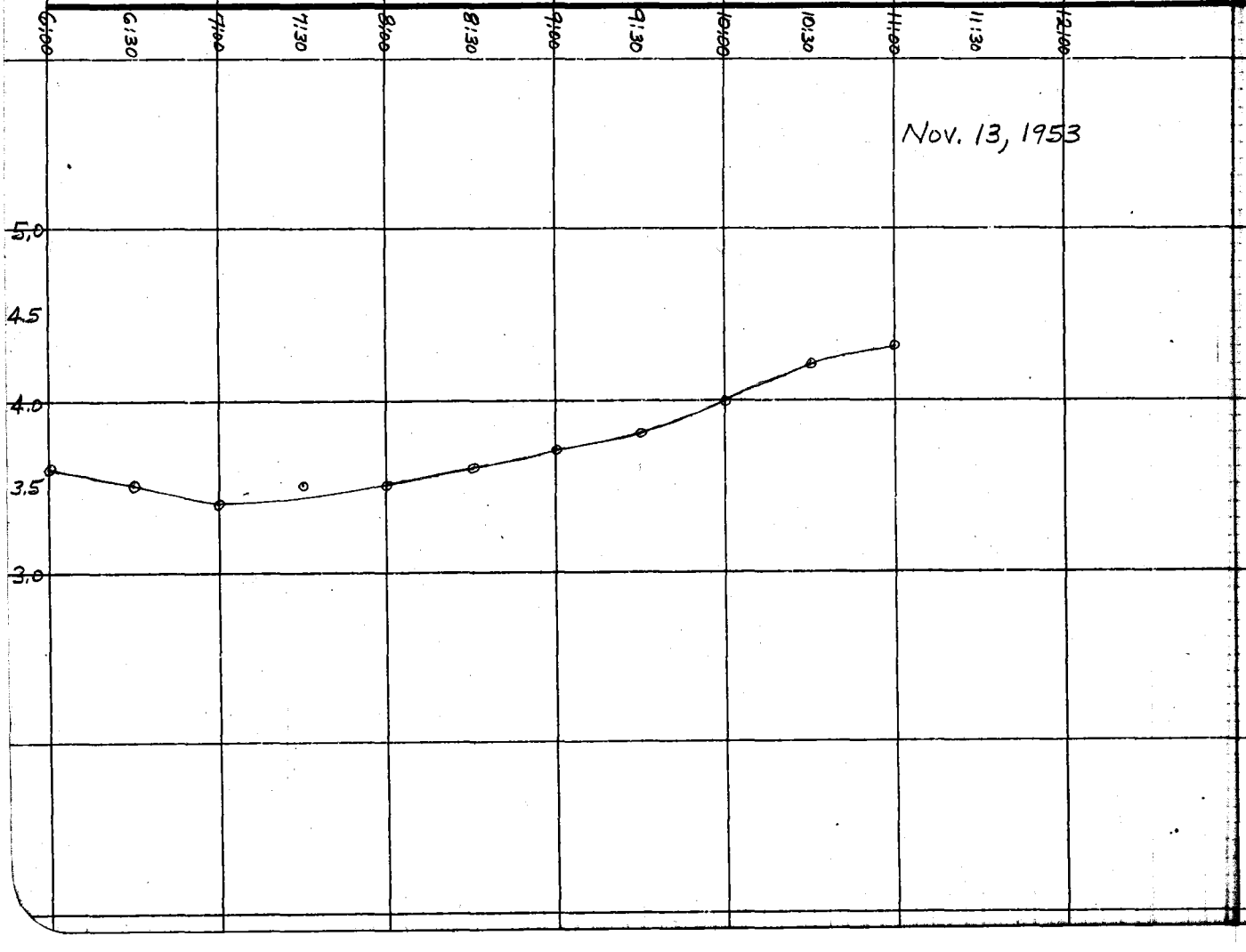

Notes Ck'd by
Map No.
Office Work
Checked
Date

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

F. B. 1505 Pg.

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F. B. _____ PG. _____

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

F. B. 1505 PG. 231

TIDE GAGE

STANDARD TIME NOV 13 1953

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

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

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725 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. 1505 PG. 232

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725 LOS ANGELES COUNTY
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76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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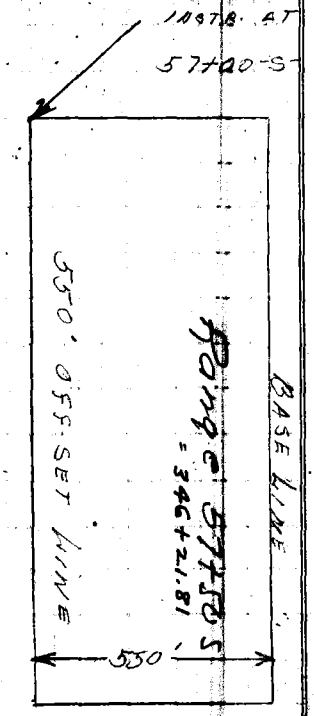
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	57+50 -S-
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
550'-W-	1	B+W	8:54	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	B+W	8:57	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B+W	9:00	90°08'		
	8	R		[illegible]		
57+50 -W- 50+00 -S-	9	Y		90°00'		
	10	B+W	9:03	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
	13	B+W	9:05	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	B+W	9:09	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B+W	9:12	90°00		
	20	R		90°00		



Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1505 Pg. 22
No. Date Date Survey of Beach Erosion Schedule
X-Sec. Notes Chkd. Checked Survey by FHB Notes ER Date 11/12/53
No. Date Date Map No. Red Ed Johnson Date 11-25-53

F. B. 1505 Pg. 226 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile

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

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

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

Range 57+50.5
= 346+21.81

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
						32	Y			Range
						33	Blue			
						28	Y			
						34	Y			
						35	Blue			

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

57+50 - 48 -

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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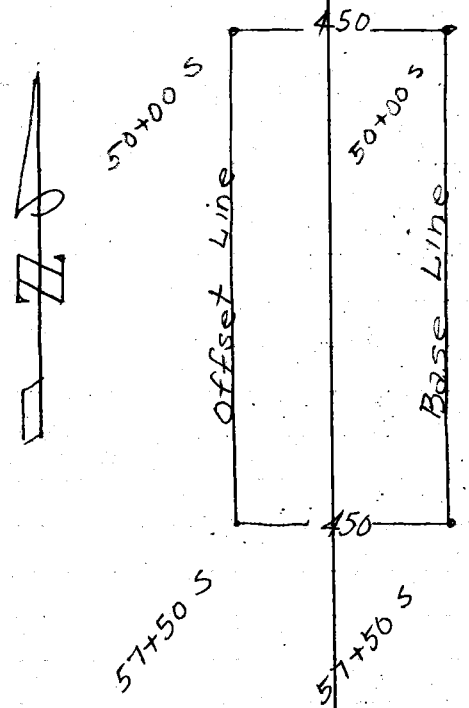
Do not extend notes this side of this line.

Cut In 57+50 S 550' Off

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
50+00 S 450 Offset	57+50 S 450 Offset	1	B & W	8°54'	71°04'
		2	R		70°03'
		3	Y		68°57'
		4	B & W	8:57	67°54'
		5	R		66°35'
		6	Y		65°03'
		* 7	B & W	9:01	63°30'
		8	R		61°21'
		9	Y		59°44'
		10	B & W	9:04	57°45'
		11	R		55°40'
		12	Y		54°14'
		13	B & W	9:06	52°30'
		14	R		49°03'
		15	Y		46°56'
		16	B & W	9:09	44°59'
		17	R		42°19'
		18	Y		40°45'
		19	B & W	9:12	38°32'
		20	R		35°27'

Remarks



CUT IN 57+50 S
346+21.81

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 227

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

Date ____ Survey by E. H. BLANCHARD C.E.S. Date 11-12-53

Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 1505 PG. 228 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

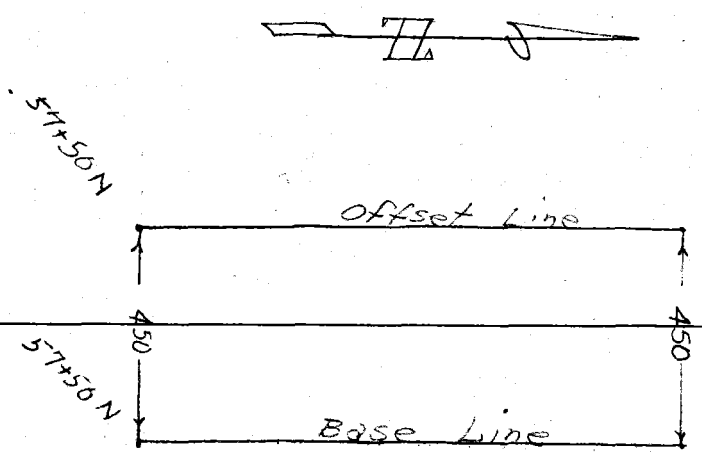
50+00 S 450 offset

Cut In 57+50 S

= 346+21.81

57+50 450 Offset

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	Cut In
	21	Y		33°54'	57+50 550 Off



76L298 307 10-51

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726 LOS ANGELES COUNTY

ENGINEERING BLDG.

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Do not extend notes this side of this line.

76L298 307 8-53

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Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EXCISION STUDY
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by F. L. BLANCHARD Notes CEM Date 4/12/53
Date 12-21-53 Date ____ Map No. ____ Engineer Technician Date ____

F. B. 1505 Pg. 22

STATION #	Color	Time	B. S. Meas. Depth	H. I. Bottom	F. S. Tide	ELEV. Adj. Depth	BOAT Remarks	57+50 S SM OFF SM COR. +150 a = 2148
1	B&W	8:54	31.0 29.0 30.0	29.7	4.3	25.4	2388	2186 + 202
2	R		27.8 29.5	28.5	4.3	24.2	2270	2068
3	Y		27.7 28.9	28.3	4.4	23.9	2151	1949
4	B&W	8:57	27.0 28.9	27.6	4.4	23.2	2049	1847
5	R		26.0 28.1	27.0	4.4	22.6	1934	1732
6	Y		25.5 26.7	26.4	4.4	22.0	1814	1612
7	B&W	9:00	24.4 26.4	25.2	4.4	20.8	1744	1542
8	R		24.0 24.4	24.8	4.4	20.4	1575	1373
9	Y		23.0 26.2	23.5	4.4	19.1	1487	1285
10	B&W	9:03	21.9 24.0	21.3 ~~22.3~~	4.4	18.9 ~~17.9~~	1391	1189
11	R		19.5 21.7	21.0	4.4	16.6	1300	1098
12	Y		19.7 22.9	20.4	4.4	16.0	1243	1041
13	B&W	9:05	19.7 21.0	20.8	4.4	16.4	1179	977
14	R		18.5 19.1	19.3	4.4	14.9	1066	864
15	Y		16.7 19.9	17.5	4.5	13.0	1004	802
16	B&W	9:09	16.0 16.7	17.3	4.5	12.8	952	750
17	R		14.0 15.7	14.9	4.5	10.4	885	683
18	Y		13.8 15.5	14.4	4.5	9.9	848	646
19	B&W	9:12	13.5 12.7	14.2	4.5	9.7	799	597
20	R		9.5	10.6	4.5	6.1	736	534

BOAT 57+50 S
5 946 + 21 81

F. B. 1505 Pg. 230 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by F. H. BLANCHARD Notes CEM 11/12/53 Notes Chkd. [illegible] Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date 12-21-53 Date _____ No. _____

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		10.5 8.5	9.2	4.5	4.7	706
							57+50S
							504+202

Boat 57+50S
346+21.81

76L298 307 8-53

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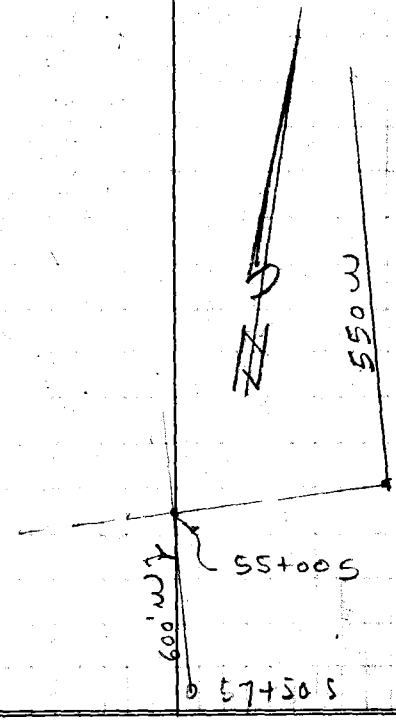
Range 55+00 S

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	B & W	9.2[illegible]	[illegible]	
		2	R		90°00	
		3	Y		90°00	
600 W	600 W	4	B & W	9.29	90°00	
		5	R		90°00	
		6	Y		90°00	
		7	B & W	933	90°00	
		8	[illegible]		90 00	
		9	Y		9000	
		10	B & W	9.37	90 00	
		11	R		9000	
		12	Y		90 00	
55+00 S	57+50 S	13	B & W	9 40	90 00	
		14	R		90 00	
		15	Y		90 00	
		16	B & W	9 43	9000	
		17	R		9000	
		18	Y		90 00	
		19	B & W	945	90 00	
		20	R		9000	



Range 55+00 S = 348+73.21

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1500 Pg. 233
No. Date Date Survey of BERCHE Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Blanchard Notes F.H.13 Date 11-13-63
No. Date Date Map No. Ind. Ind. Job no. Date

F. B. 1505 Pg. 234 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

Range 55+00 S 55+00 S.
348+73.21
57+00 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		90 00		
	22	BEW	9 49	90 00		
	23	R		90 00		
	24	Y				
	25	BEW				
	26	R				

76L298 307 8-53

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76L298 307 10-51

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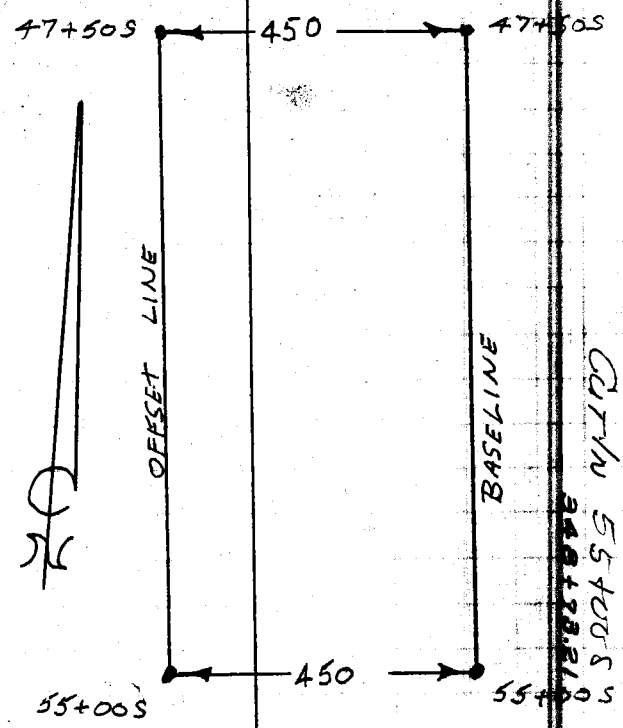
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
47+50 S 450 OFFSET / 55+00 S 450 OFFSET	1	B+W	9:26	71°12
	2	R		70°20
	3	Y		69°06
	4	B+W	9:29	67°45
	5	R		66°24
	6	Y		64°50
	7	B+W	9:33	62°53
	8	R		61°24
	9	Y		60°17
	10	B+W	9:37	58°45
	11	R		57°38
	12	Y		56°21
	13	B+W	9:40	54°39
	14	R		52°00
	15	Y		48°27
	16	B+W	9:43	46°29
	17	R		44°51
	18	Y		43°09
	19	B+W	9:45	40°37
	20	R		38°33

CUT-IN 55+00S

Remarks



CUT IN 55+00S
348+23.21

Profile No. ___ Notes Red ___ Plotted ___ Job No. 8412 Division No. ___ F.B. 1505 Pg. 235
X-Sec. No. ___ Date ___ Date ___ Survey of BEACH EROSION STUDIES
Notes Chkd ___ Checked ___ Survey by F. H. BLANCHARD J.M.U. Date 11-13-53
No. ___ Date ___ Date ___ Map No. ___ Reviewed ___ Date ___

B.1505 PG. 236 Job No. 842 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ No. _____

47+50S 450 OFFSET

CUT IN 55+00 S

= 348+73.21

55+00S 450 OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	Y		3[illegible]22	
	22	BTW	7:49	3[illegible]00	
	23	R		[illegible]	
					CUT IN 55+00S

76L298 307 10-51

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726 LOS ANGELES COUNTY

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76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		55+00S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks Offset +450 S.M. Corr. -222
1	B&W	9:26	32.1 29.8	30.6	3.8	26.8	2431	2203 + 228
2	R		30.1 28.9	29.3	3.8	25.5	2327	2099
3	Y		29.9 27.5	28.3	3.8	24.5	2192	1964
4	B&W	9:29	29.0 26.5	27.3	3.8	23.5	2061	1833
5	R		29.5 25.2	26.6	3.8	22.8	1945	1717
6	Y		27.0 25.8	26.2	3.8	22.4	1824	1596
7	B&W	9:34	25.8 23.8	24.5	3.8	20.7	1693	1465
8	R		26.0 22.9	23.9	3.8	20.1	1604	1376
9	Y		26.3 22.4	23.7	3.8	19.9	1542	1314
10	B&W	9:37	25.0 21.2	22.5	3.8	18.7	1463	1235
11	R	38	24.8 21.2	22.4	3.8	18.6	1411	1183
12	Y	39	23.8 21.2	22.1	3.8	18.3	1355	1127
13	B&W	9:40	23.8 21.0	21.9	3.9	18.0	1285	1057
14	R		22.1 21.1	21.4	3.9	17.5	1188	960
15	Y		19.6 17.5	18.2	3.9	14.3	1074	846
16	B&W	9:42	20.6 17.0	18.2	3.9	14.3	1018	790
17	R		19.2 15.5	16.7	3.9	12.8	974	746
18	Y		16.9 15.5	16.0	3.9	12.1	931	703
19	B&W	9:45	16.0 14.8	15.2	3.9	11.3	871	643
20	R		16.0 13.0	14.0	3.9	10.1	826	598

BOAT 55+00S
[illegible]

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ No. ____ Date ____ Date ____ Survey of Beach Erosion Studies ____ Notes Chkd. ____ Checked ____ Survey by H. BLANCHARD ____ Date ____ No. ____ Date ____ Date ____ Map No. ____ Date ____

1505

F. B. 1505 PG. 238

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

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

Survey by F. H. BLANCHARD Notes CEM 11/13/53 Notes Chkd. _____ Checked _____ X-Sec.

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

Boat 55+00S
348+73.21

761.298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		55+00S
#	Color	Time	Meas Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		16.8				
22	BEW	9:49	12.0	13.6	3.9	9.7	801	573+228
23	R		13.9	12.2	3.9	8.3	773	545
			11.3					
			12.1					
			9.0	10.0	3.9	6.1	720	492

76L298 307 8-53

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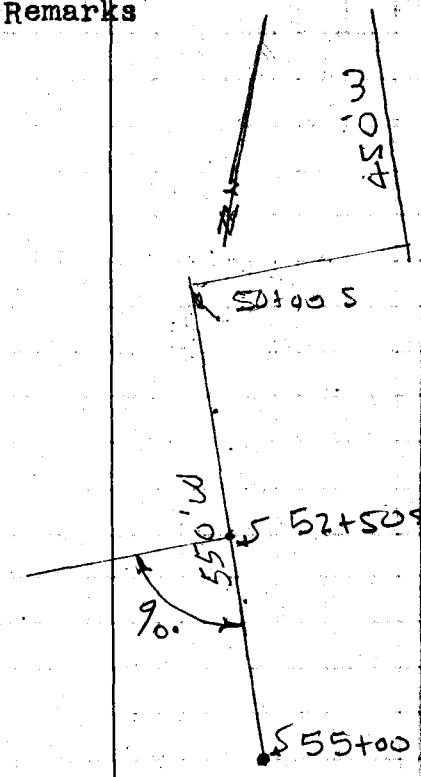
RANGE 52+50 S

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
550' W	550' W	1	B&W	1023	90°00	
		2	R		90°00	
		3	Y		90°00	
		4	B&W	1028	90°00	
		5	R		89 49	
		6	Y		90 00	
		7	B&W	1031	90°00	
		8	R		90 10	
		9	Y		90 00	
		10	B&W	1035	90 00	
52+50 S	55+00 S	11	R		90 00	
		12	Y		90 00	
		13	B&W	1038	89.28	
		14	R		90 00	
		15	Y		90°00	
		16	B&W	1040	90 00	
		17	R		90 00	
		18	Y		90 00	
		19	B&W	1043	90 00	
		20	R		90 00	



Range 52+50 S = 351+24.61

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes PHB Date 11-13-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1505 Pg. 239

F. B. 1505 PG. 240

Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

761298 307 8-53

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52+50 S 550' 3

Range 52+50 S
351+24.61

55+00 S 550 3

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight	#	Color	Time	Hor. Ang.	
	21	Y		90 00	
	22	BL	1049	90 00	
	23	R		90 00	
	24	Y			

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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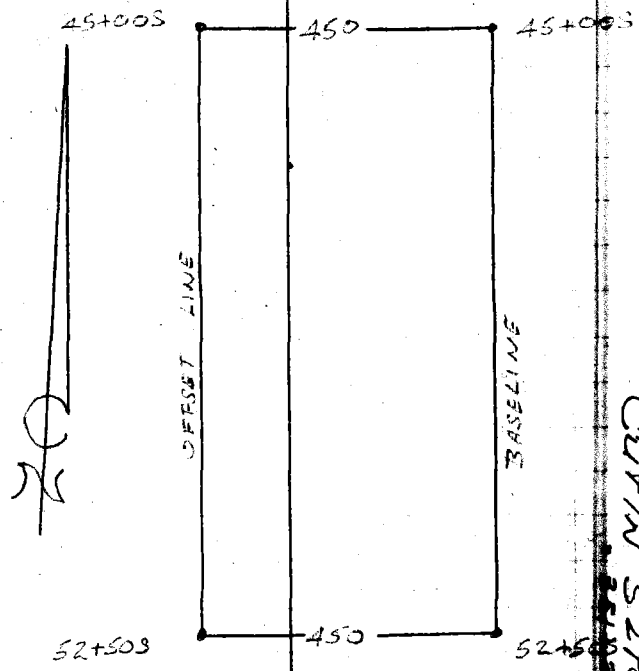
CUT-IN 52+50 S

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
450 OFFSET	450 OFFSET	1	B+W	10:23	70°10
		2	R		68°54
		3	Y		67°03
		4	B+W	10:27	65°11
		* 5	R		63°12
		6	Y		61°54
		7	B+W	10:31	60°52
		* 8	R		58°36
		9	Y		56°14
45+00S	52+50S	10	B+W	10:35	53°27
		11	R		51°35
		12	Y		49°48
		* 13	B+W	10:38	46°27
		14	R		45°02
		15	Y		42°20
		16	B+W	10:41	40°15
		17	R		37°52
		18	Y		36°34
		19	B+W	10:43	34°49
		20	R		34°50

Remarks



CUT IN 52+50S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1505 Pg. 24

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

X-Sec. Notes Chkd. ____ Checked ____ Survey by E. H. BLANCHARD J.M.U. Date 11-12-63

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

F.B. 1505 Pg. 2/2 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

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

45+00S 450 OFFSET

CUT IN 52+50S

= 351+24.61

52+50S 450 OFFSET

STATION	B.S.	H.I.	F.S.	ELEV.	CUT-IN 52+50S
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21	Y		3-57	
	22	BEW	10:50	8-34	
	23	R		5-12	

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76L298 30T 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		52+50 S
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks Offset 450' S.M. Corr. -196'
1	B&W	10:23	30.9 29.5	30.0	4.2	25.8	2333	2079 +254
2	R		31.2 28.0	29.1	4.2	24.9	2198	1944
3	Y		29.7 26.9	27.8	4.2	23.6	2025	1771
4	B&W	10:27	28.2 26.0	26.7	4.2	22.5	1876	1622
5	R		27.1 24.5	25.4	4.2	21.2	1744	1490 add 6 1484
6	Y		26.0 24.0	24.7	4.2	20.5	1659	1405
7	B&W	10:31	26.6 24.2	25.0	4.2	20.8	1600	1346
8	R		27.1 23.3	24.6	4.2	20.4	1478	1224 1224
9	Y		24.8 23.1	23.7	4.2	19.5	1376	1122
10	B&W	10:35	24.3 21.5	22.4	4.2	18.2	1266	1012
11	R		23.6 21.5	22.2	4.2	18.0	1200	946
12	Y		24.0 20.3	21.5	4.2	17.3	1141	887
13	B&W	10:38	23.0 18.9	20.3	4.2	16.1	1050	796 add 7 797
14	R		20.5 17.5	18.5	4.2	14.3	1005	751
15	Y		19.1 17.0	17.7	4.2	13.5	937	683
16	B&W	10:41	18.7 15.9	16.8	4.2	12.6	889	635
17	R		16.0 15.1	15.4	4.2	11.2	837	583
18	Y		16.1 14.0	14.7	4.3	10.4	810	556
19	B&W	10:43	17.9 15.1	16.0	4.3	11.7	776	522
20	R		17.2 14.0	15.1	4.3	[illegible]	776	522

These distances from base line used by L.A. County

Boat 52+50 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
Date ____ Date ____
Notes Chkd ____ Checked ____
Date ____ Date ____

Notes Red. Plotted
Date Date
Notes Chkd. Checked
Date Date

STATION								
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		17.3 13.2	14.6	4.3	10.3	776	522 + 254
22	B & W	10:50	15.1 11.0	12.4	4.3	8.1	733	479
23	R		11.2 9.8	10.3	4.3	6.0	691	437