...'d by CWH	Survey of Beach Erosion Studies	F. B. 2801 Pg. 5
...k CWH	IN 0300.02 Tape Std °F	
JSH	Surveyed by Charriet, Lind, English	
...-2-59	Notes Charriet Lind Hm Date	
	Indexed C. Johnson 8-28-59	

...EACH EROSION STUDIES

J. N. 0300.02

Station 253+10S to 32+46.44S

AUG. 1959

BEACH EROSION NORTH (CONT.)

F.B. 2802

...ARRIET, J.M.	LIND, C.K.	ENGLISH, E.F.
...LKS, D	GOODWIN, J.C.	LANDA, E.
...GE, W.J.	HILL, C.H.	FOULGER, D.S.
...RADER, R.L.	WALLACE, D.L.	TUXFORD, K.
...DEN, D.	MASUDA, G.	HINZMAN, C.W.
...LLER, R.M.	[redacted]	DUPUIS, E.N.
...VAMMEN, K.R.		
SHOEMAKER, C.E.		

microfilmed.
March '85

F. B. 2801 PG. 6

RETURN TO
LOS ANGELES COUNTY ENGINEER
COUNTY ENGINEERING BLDG.
LOS ANGELES

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

Do not extend notes this side of this line.

Notes Ck'd by		Survey of	F. B. Pg.
Map No.		JN Tape Strl °F	
Office Work CWH		Surveyed by	
Checked JSH		Notes Date	
Date 9-2-59		Indexed	

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

Do not extend notes this side of this line.

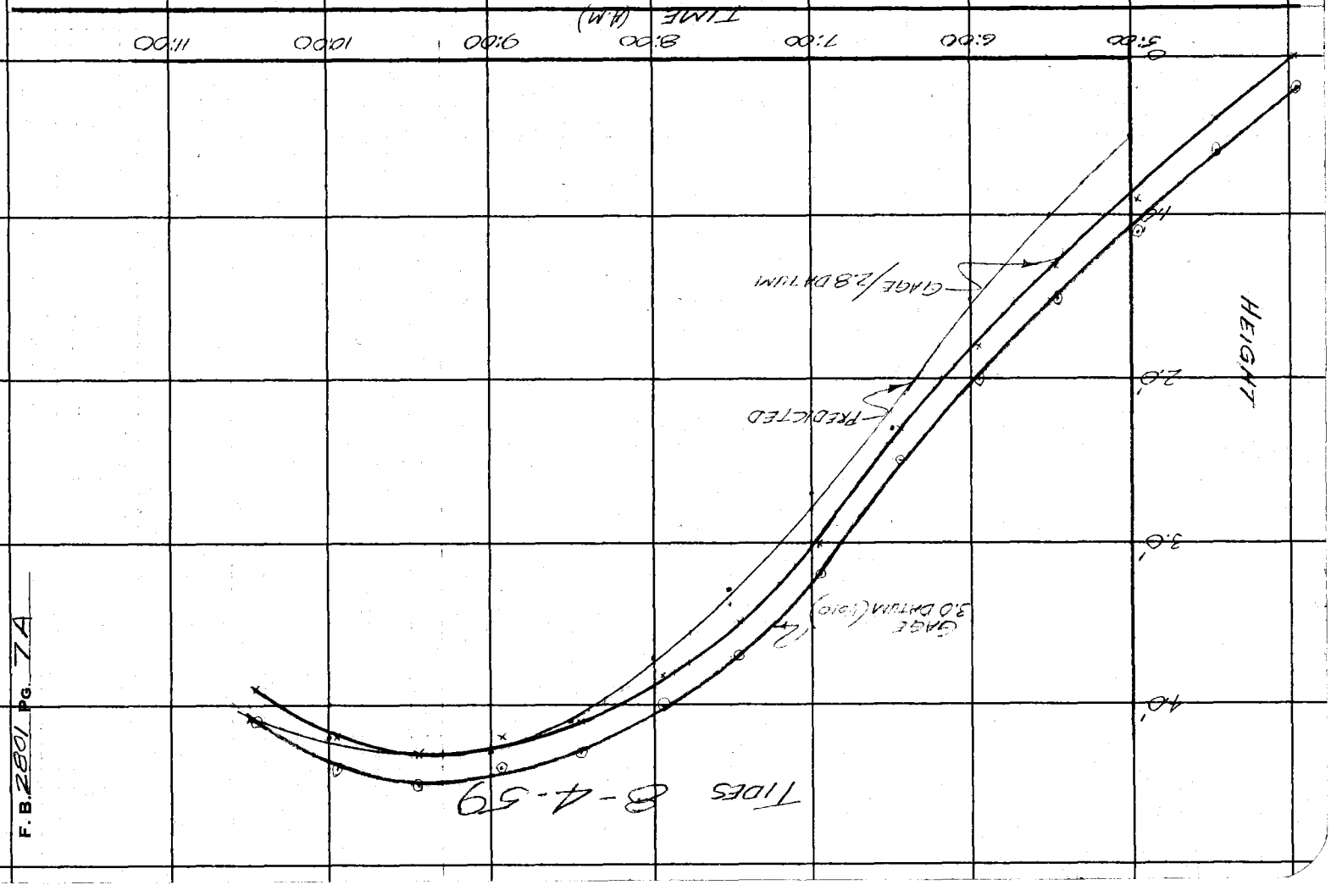
RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

75098 CE #247—7-55

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 PG. 74

Notes Ck'd by CWH	Survey of Beach Erosion Study
Map No.	IN0300.02 Tape Std. 6F
Office Work	Surveyed by UHarriet
Checked	Notes Ellen Date 8-4-59
Date 9-2-59	Indexed C. Johnson

F. B. 2801 PG. 7

8-4-59

~~3.0~~ 2.8 on DATUM LINE of Tide Gauge SANTA MONICA

GAUGE TIME (P.S.T) — 12:40

WATCH TIME (P.S.T) — 12:43

STANDARD TIME		GAUGE READING	
4:00	A.M.	~~+0.2~~	0.0
4:30		~~+0.6~~	+0.4
5:00		~~+1.1~~	+0.9
5:30		~~+1.5~~	+1.3
6:00		~~+2.0~~	+1.8
6:30		~~+2.5~~	+2.3
7:00		~~+3.2~~	+3.0
7:30		~~+3.7~~	+3.5
8:00		~~+4.0~~	+3.8
8:30		~~+4.3~~	+4.1
9:00		~~+4.4~~	+4.2
9:30		~~+4.5~~	+4.3
10:00		~~+4.4~~	+4.2
10:30		~~+4.1~~	+3.9
11:00		~~+3.8~~	+3.6
11:30		~~+3.6~~	+3.4
12:00		~~+3.2~~	+3.0
12:30		~~+2.7~~	+2.5

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763093 CE #247—7-53

F. B. 2801 PG. 8

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. ____
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of Beach Erosion
Notes Chkd. JSH Checked JSH Survey by English & Nord Date 8-4-59
Date 9-29-59 Date 10-5-59 Map No. ____ Inst. [redacted]

F. B. 2801 Pg. 9

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 245+00	Sight on 253+10
S-12	488	21 92		17 04	DATUM MEAN LOWER LOW WATER	Inshore 253+10 S.
253+10			494	16 98	Control	Line
			34	18 3		24° R. BRK
			04	21 5		33° " BRK
			13	20 6		100° "
			39	18 0		150° "
			22	15 7		200 "
			70	14 4		300 "
			82	13 7		400 "
			94	12 5		500 "
			99	12 0		520 "
T.P.	15	64	170	49		595 "
			17	47	36° 07'	591
			42	22	38 21	641
			54	10	39 55	678
			63	01	41 53	727
			80	-16	44 46	804
			95	-31	46 58	868
			106	-42	48 37	919
			114	-50	50 23	978

F. B. 2801 Pg. 10 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion | Date 9-24-59 | Date 10-2-59 | No.

Survey by English & Lind | Notes | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.		
		6 4	127-63	51 52		1032
			137-73	53 06		1079
			150-86	53 34		1098

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-11	1		5·24	90° 00		
		2			" "		S-11
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "	90°	
		8			" "		
		9			" "		
253+10S		10			" "	253+10S Range Line	
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		S-12
		19			" "		
		20			" "		

Profile Notes Red. SWH Plotted CWH Job No. 0300.03 Division No. 10 F. B. 2801 Pg. 11
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhorriet Notes Eller Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 12 | Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Wallace Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date 8-4-59 Date 9-29-59 Date 10-5-59 No.

253+10 5

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On 5-11	#	Depth Rec. Adj.	Time	Hor. Ang. 90° 00	Remarks
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33		5.21		

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

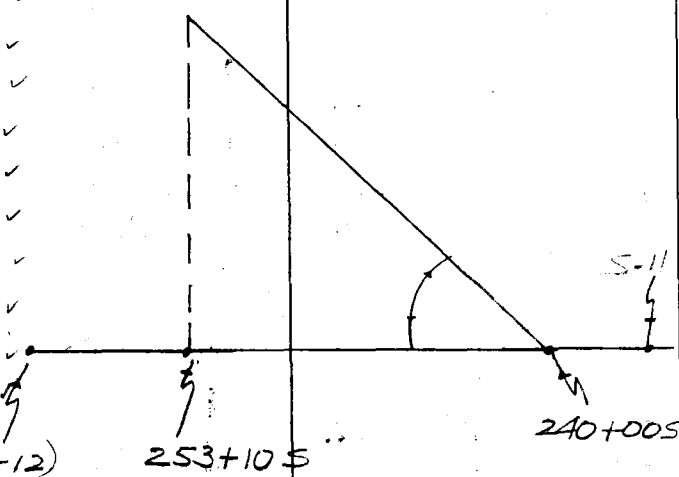
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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		S. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
240+00 S.	S-12	1	46.3	45.6	5 25	67° 20'	3137
		2	45.7	45.0		66° 44'	3047
		3	44.2	43.5		66° 18'	2984
		4	43.2	42.5		66° 00'	2942
		5	42.4	41.7		65° 21'	2854
		6	41.7	41.0		64° 40'	2767
		7	41.2	40.5		64° 01'	2688
		8	39.5	38.8		63° 02'	2574
		9	37.8	37.1		62° 16'	2492
		10	37.4	36.7		61° 18'	2393
		11	35.9	35.2		60° 32'	2319
		12	34.3	33.6		59° 17'	2205
		13	33.2	32.5		58° 04'	2103
		14	31.3	30.6		57° 21'	2045
		15	30.8	30.1		56° 23'	1970
		16	29.2	28.5		55° 36'	1914
		17	27.8	27.1		54° 48'	1858
		18	26.2	25.5		53° 30'	1770 (S-12)
		19	22.9	22.2		52° 28'	1706
		20	21.6	20.9		51° 27'	1644

Adjustments
Boat = +1.0
Zero = -0.4
Tide = -1.3
-0.7



Profile No. ____ Notes Red. CWH Plotted ____ Job No. 0300-52 Division No. 10 F. B. 2801 Pg. 13
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by Uharriet Notes R.L.S. Date 8-4-59
Date 9-29-59 Date 10-5-59 Map No. ____ Ind. C. Johnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst At	Sight On	#	Depth Rec	Adj.	Time	Hor. Ang.		Remarks
		21	18.8	18.1		50° 08	1568	Adjustments
		22	17.2	16.5		49° 03	1509	Boat = +1.0
		23	15.2	14.5		48° 05	1459	Zero = -0.4
		24	14.0	13.3		47° 01	1406	Tide = -1.3
		25	12.7	12.0		46° 03	1358	-0.7
		26	11.8	11.1		44° 55	1306	
		27	11.8	11.1		44° 15	1276	
240+00S	S-12	28	10.2	9.5		43° 16	1233	
		29	9.7	9.0		42° 16	1191	
		30	—			41° 00	1138	
		31	—			40° 17	1111	
		32	—			39° 35	1083	
		33	—		5 32	38° 11	1030	

F. B. 2801 Pg. 14 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes R.L.S. Notes Chkd. JSH Checked JSH X-Sec.
Indexed E. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 245+00	Sight on 250+00
		21 92			DATUM MEAN LOWER LOW WATER	Inshore 250+00 S
250+00			460	17 32	CONTROL	LINE
			48	17 1		29° R.
			562	16 3		33° " EDGE MA. IN
			465	17 29		114° " " " "
			265	15 27		149° " W. EDGE CON. WA.
			72	14 7		186 3 " BRK
			32	18 3		196 3 " BRK
			47	17 2		200 "
			60	15 9		300 "
			67	15 2		375° " BRK
			116	10 3		391 " "
			118	10 1		451 "
T.P.	1 3	6 6	166	[illegible]	44° 58'	500
			1 9	4 7	45 28	508
			4 2	2 4	47 51	552
			5 5	1 1	41 49	592
			6 6	0 0	51 47	635
			7 7	-1 1	53 21	672
			9 0	-2 4	56 01	742

Profile No. X-Sec. No. Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Survey of Beach Erosion Survey by English & Lind Date 8-4-59 Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Map No. Indexed A. C. Jenny Date

F. B. 2801 Pg. 15

F. B. 2801 Pg. 16 | 0300.02

Job No. Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Date 9-24-59 Date 10-2-59 No.

Survey by English & Lind Notes Notes Chkd. JSH Checked JSH X-Sec.

Indexed [redacted] Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		6 6	107	-4 1	0	
			123	-5 4	57 27	783
			135	-2 9	59 15	840
			147	-8 1	60 29	883
			190	-12 4	61 34	923
					63 19	995

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

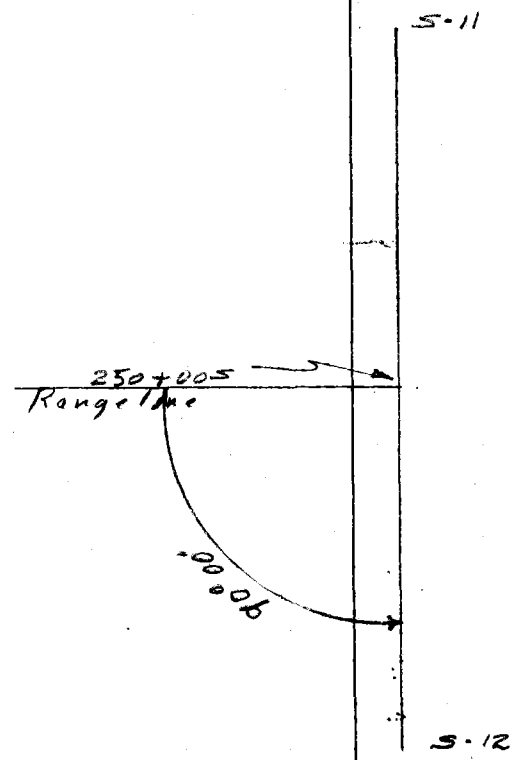
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-12	1		5 43	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



250+00S

Profile Notes Red. [illegible] Plotted [illegible] Job No. 0300.02 Division No. 10 F. B. 28.01 Pg. 17
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION studies
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Filed Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-12	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26			" "		
		27			" "		
		28			" "		
250+00 S		29			" "		
		30			" "		
		31			" "		
		32			" "		
		33			" "		
		34			" "		
		35			" "		
		36			" "		
		37		5 51	" "		

F. B. 2801 Pg. 18 Job No. 0300.03 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes Wallace Notes Chkd. JSH Checked JSH X-Sec.
Indexed L. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

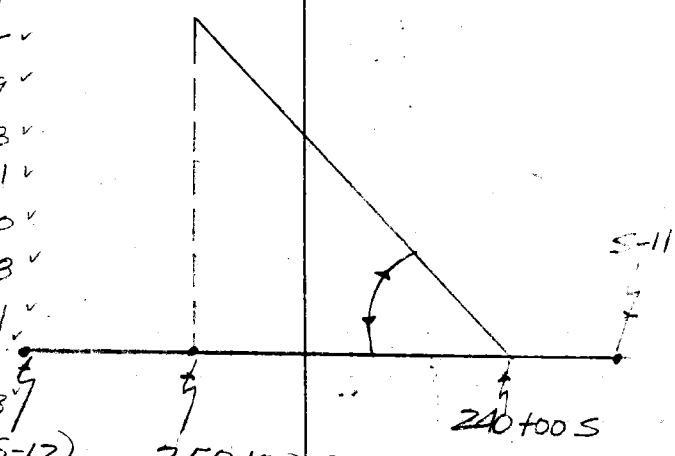
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
240+00 S.	S-12	1	—		544	74° 25'	
		2	—			73° 55'	
		3	50.1	49.0		73° 41'	3416 ✓
		4	49.5	48.4		73° 08'	3298 ✓
		5	48.1	47.0		72° 46'	3224 ✓
		6	46.4	45.3		72° 08'	3102 ✓
		7	45.1	44.0		71° 47'	3039 ✓
		8	43.8	42.7		71° 08'	2926 ✓
		9	42.3	41.2		70° 28'	2819 ✓
		10	40.5	39.4		69° 26'	2665 ✓
		11	39.6	38.5		68° 44'	2569 ✓
		12	38.3	37.2		68° 06'	2488 ✓
		13	36.3	35.2		67° 13'	2381 ✓
		14	35.9	34.8		66° 08'	2260 ✓
		15	34.9	33.8		65° 20'	2178 ✓
		16	33.6	32.5		64° 20'	2081 ✓
		17	32.7	31.6		63° 13'	1981 ✓
		18	31.3	30.2		62° 09'	1893 ✓
		19	29.3	28.2		61° 00'	1804 ✓ (S-12)
		20	27.7	26.6		59° 49'	1719 ✓

Adjustments
Boat = +1.0
Zero = -0.5 ✓
Tide = -1.6 ✓
-1.1 ✓



Profile Notes Red. [illegible] Plotted [illegible] Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 19
No. Date 9-24-59 Date 10-6-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by Uharriet Notes Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jonnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 20 | Job No. 8300.02 | Division No. 10 | Notes Red. CMH | Plotted CMH
Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No. | Profile
Survey by Wharriet | Notes R.L.S. | Notes Chkd. JSH | Checked JSH | X-Sec.
Indexed A. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.		Remarks
240+00.5 / 5-12	21	26.4 / 25.3		58° 46'	1649	Adjustments
	22	25.0 / 23.9		57° 40'	1580	Boat = +1.0
	23	23.7 / 22.6		56° 46'	1526	Zero = -0.5
	24	21.7 / 20.6		55° 38'	1462	Tide = -1.6
	25	20.4 / 19.3		54° 26'	1399	-1.1
	26	18.9 / 17.8		53° 02'	1329	
	27	17.2 / 16.1		51° 25'	1253	
	28	15.8 / 14.7		50° 04'	1195	
	29	14.5 / 13.4		48° 51'	1144	
	30	12.7 / 11.6		47° 16'	1082	
	31	11.8 / 10.7		46° 12'	1043	
	32	11.1 / 10.0		45° 00'	1000	
	33	9.2 / 8.1		43° 32'	950	
	34	8.5 / 7.4		42° 27'	915	
	35	7.5 / 6.4		40° 30'	854	
	36	6.3 / 5.2		39° 34'	826	
	37	5.4 / 4.3	5 52	38° 19'	790	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

10

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 240+00	Sight on 245+00
		21 92			DATUM MEAN LOWER LOW WATER	Inshore 245+00 S
T.P.	437	18 38	791	14 01		
245+00			110	17 28	CONTROL	LINE
			15	16 9		100° R.
			55	12 9		200° "
			69	11 5		300° "
			74	11 0		355° " BRK
T.P.	14	6 8	130	5 4		411° "
			21	4 7	40° 08'	422
			40	2 8	42 23	456
			63	0 5	46 36	529
			73	-0 5	49 40	568
			86	-1 8	51 02	618
			101	-3 3	53 15	670
			120	-5 2	55 36	730
			136	-6 8	56 47	764
			150	-8 2	58 29	815
			168	-10 0	60 18	877

Profile No. X-Sec. No. Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. 16 Survey of BEACH EROSION STUDIES Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by LINE Notes [illegible] Date 9-8-59 Map No. Ind[redacted]d C. Tob[redacted]

F. B. 2801 PG. 21

F. B. 2801 Pg. 22 | 0308.02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Engish & Lind Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-299 S & E #307—1-56

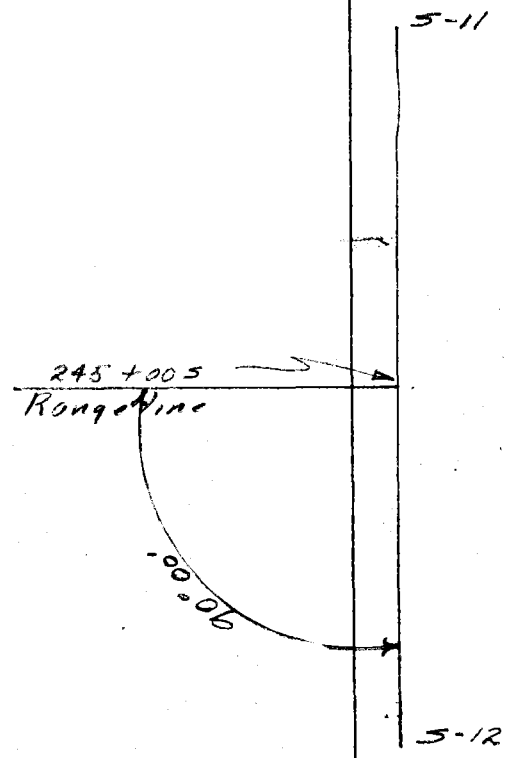
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
	S-12	1		6 05	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



245 + 00 S

Profile No. ____ Notes Red. CHK Plotted ____ Job No. 0300.02 Division No. 10 F. B. 28-01 Pg. 23
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes Ellco Date 8-4-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Jones

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
S-12	21			90° 00'		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28			" "		
	29			" "		
	30			" "		
245+00 S	31			" "		
	32			" "		
	33			" "		
	34			" "		
	35			" "		
	36		6 13	" "		

F. B. 2801 Pg. 24

Survey of Beach Erosion Studies Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH

Survey by ~~[illegible]~~ Wallace Notes Chkd. JSH Date 9-24-59 Checked JSH Date 10-2-59

Indexed Date 8-4-59 Date 7-29-59 Date 10-5-59 No. X-Sec. No. Profile

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

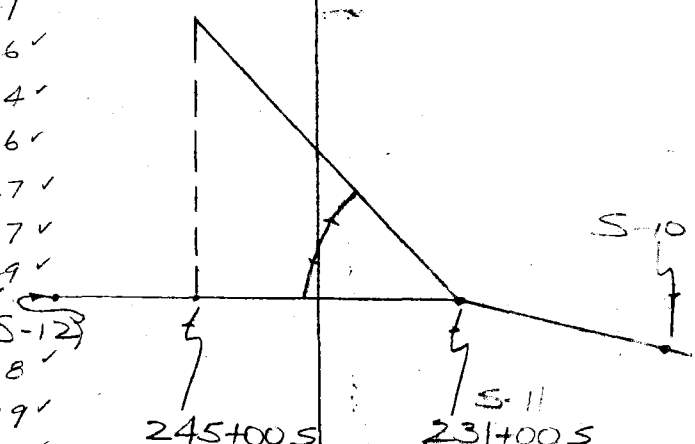
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	–		6 07	67° 33'		
		2	48.8	47.2		67° 11'	3328 ✓	
		3	47.4	45.8		66° 37'	3238 ✓	
		4	46.3	44.7		65° 55'	3132 ✓	
		5	45.0	43.4		65° 08'	3021 ✓	
		6	43.3	41.7		64° 02'	2874 ✓	
		7	41.5	39.9		62° 57'	2741 ✓	
		8	40.6	39.0		62° 02'	2636 ✓	
		9	39.2	37.6		61° 05'	2534 ✓	
		10	38.1	36.5		59° 55'	2416 ✓	
		11	36.1	34.5		58° 58'	2327 ✓	
		12	35.4	33.8		57° 58'	2237 ✓	
		13	34.2	32.6		56° 55'	2149 ✓	
		14	33.4	31.8		55° 55'	2069 ✓	
		15	31.7	30.1		54° 43'	1978 ✓	
		16	30.3	28.7		53° 19'	1879 ✓	
		17	29.1	27.5		51° 51'	1782 ✓	
		18	28.1	26.5		50° 47'	1715 ✓	
		19	27.8	26.2		49° 53'	1662 ✓	
		20	27.4	25.8		48° 41'	1593 ✓	

231+00 S.
S-11
S-12

Adjustments
Boat = +1.0
zero = -0.6 ✓
Tide = -2.0 ←
-1.6 ✓



Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 25
No. Date 9-24-59 Date 11-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Harriet Notes R.L.S. Date 9-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jordan

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	25.8	24.1		47° 13'	1513	Adjustments
		22	24.6	22.9		45° 35'	1429	Boat = +1.0
		23	23.7	22.0		44° 02'	1354	Zero = -0.6
		24	22.6	20.9		42° 21'	1277	Tide = -2.1
		25	21.8	20.1		41° 04'	1219	-1.7
		26	20.5	18.8		40° 01'	1176	
		27	19.2	17.5		38° 19'	1106	
231+00S	S-12	28	17.9	16.2		36° 45'	1046	
		29	16.4	14.7		35° 38'	1004	
		30	14.1	12.4		33° 56'	942	
		31	12.5	10.8		32° 38'	896	
		32	10.7	9.0		31° 07'	846	
		33	9.7	8.0		29° 53'	805	
		34	8.7	7.0		28° 55'	773	
		35	8.2	6.5		28° 09'	749	
		36	7.7	6.0	0 14	26° 57'	711	

F. B. 2801 Pg. 26 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes R.L.S. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 245+00	Sight on 240+00
		18 38 ✓			DATUM MEAN LOWER LOW WATER	Inshore 240+00 S.
T.P.	505	19 97 ✓	346	14 92 ✓		
240+00 S.			285	17 12 ✓	Control	Line
			56	~~15~~ 16 4		100° R.
			67	~~13~~ 13 3		200° R.
			82	~~10~~ 11 8		300° R.
			92	~~9~~ 10 8		316° R. Bar
T.P.	1 1	~~6~~ 7 5	136	~~5~~ 6 4		347° R.
			18	~~4~~ 5 7	35° 37'	358 ✓
			50	~~1~~ 2 5	39 17	409 ✓
			70	+0 5	42 52	464 ✓
			78	-~~1~~ 9 3	44 50	497 ✓
			85	-~~2~~ 1 0	47 05	538 ✓
			99	-~~3~~ 2 4	47 59	555 ✓
			100	-~~3~~ 2 5	50 54	615 ✓
			117	-~~5~~ 4 2	53 38	679 ✓
			136	-~~7~~ 6 1	55 35	730 ✓
			150	-~~8~~ 7 5	56 43	762 ✓
			164	-~~9~~ 8 9	57 51	796 ✓

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 27
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Notes Date 9-1-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 28

Job No. 0300,02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed Date Date Date No.

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.	

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-12	1		6 28	90° 00'		S-11
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
240+00 S		9			" "	240+00 S	
		10			" "	Range line	
		11			" "		
		12			" "		
		13			" "	90°00'	
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		S-12
		19			" "		
		20			" "		

Profile Notes Red CWH Plotted CWH Job No. 0300.03 Division No. 10 F. S. 2801 Pg. 29
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. SH Checked SH Survey by Willamet Notes Hillare Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. John

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 30

Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 Profile No.

Survey by Harriet Notes Wallace Notes Chkd. JSH Checked JSH X-Sec. No.

Indexed C. Johnson Date 8-4-59 Date 0-24-59 Date 10-5-59

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
5-12	21			90° 00'		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28		6 38	" "		
240+00-S						

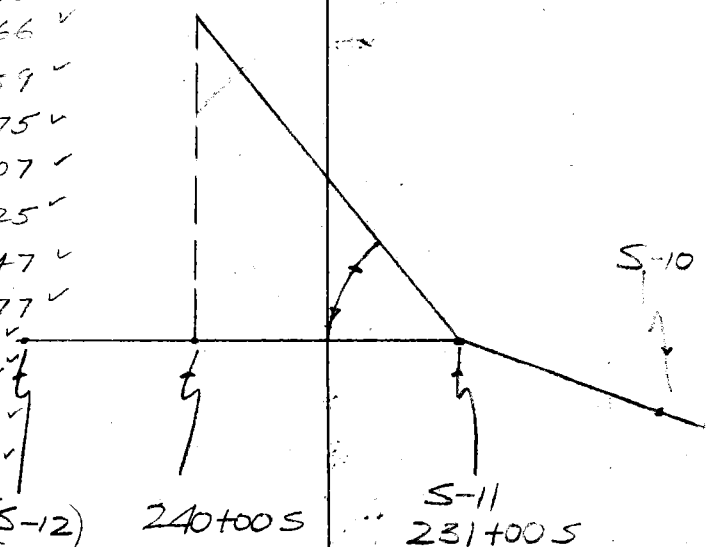
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	37.9	36.0	6 29	69° 13	2372	Adjustments
		2	36.8	34.9		68° 26	2277	Boat = +1.0
		3	36.0	34.1		67° 53	2215	Zero = -0.5
		4	35.0	33.1		67° 07	2132	Tide = -2.4
		5	33.8	31.9		66° 03	2026	-1.9
		6	32.8	30.9		65° 02	1933	
		7	31.2	29.3		64° 15	1866	
		8	30.2	28.3		62° 54	1759	
		9	29.3	27.4		61° 45	1675	
		10	28.3	26.4		60° 45	1607	
		11	27.3	25.4		59° 27	1525	
		12	26.6	24.7		58° 07	1447	
		13	25.2	23.3		56° 50	1377	
		14	25.0	23.1		55° 44	1321	
		15	23.2	21.3		54° 04	1242	
		16	22.6	20.7		52° 32	1175	
		17	21.3	19.4		51° 15	1121	
		18	20.4	18.5		49° 57	1071	(S-12)
		19	18.7	16.8		48° 18	1010	
		20	17.7	15.8		47° 02	967	



231+00 S.
S-11
S-12

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300-03 Division No. 10 F. B. 2801 Pg. 31
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by [illegible] Notes P.L.S. Date 8.4.59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 32 | Job No. 2300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile No.
Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | X-Sec. No.
Survey by Wharriet | Notes R.L.S. | Notes Chkd. JSH | Checked JSH
Index C. Johnson | Date | Date 9-29-59 | Date 10-5-59

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
231+00 S	S-12	21	16.2	14.3		45° 00'	900	
		22	14.4	12.5		43° 47'	862	Adjustments
		23	13.0	11.1		42° 10'	815	Boat = +1.0
		24	11.3	9.4		40° 15'	762	Zero = -0.5
		25	10.8	8.9		40° 01'	759	Tide = -2.4'
		26	9.6	7.7		38° 57'	727	-1.9
		27	8.4	6.5		37° 55'	701	
		28	7.6	5.7	6 34	37° 07'	681	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 240+00	Sight on 235+00
		19 97			DATUM MEAN LOWER LOW WATER	Inshore 235+00 S.
TP	242	19 69	270	17 27		
235+00			278	16 91	Centerline	Line
			37	16 6		100 L.
			50	13 7		129 R. Edge
			73	12 4		200 R.
			63	11 4		279 R. Top Bank
TP	05	7 0	132	6 5		314 R.
			23	4 7	33 59	337
			57	1 3	39 09	407
			72	-0 2	43 36	476
			86	-1 6	45 16	505
			83	-1 3	45 [illegible]	508
			92	-2 2	[illegible] 54	553
			115	-4 5	51 51	618
			136	-6 6	53 00	664
			148	-7 8	54 29	701
			170	-10 0	56 47	764

Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible]
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of [illegible] Section [illegible]
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed [redacted] Date [illegible]

F. B. 2801 Pg. 33

F. B. 2801 Pg. 34

Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LIND Notes GILL & EFE. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
5-12	1		6 49	90° 00'		5-11
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "	235+00 S	
235+00 S	10			" "	Range Line	
	11			" "		
	12			" "		
	13			" "	90° 00'	
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		5-12
	19			" "		
	20			" "		

Profile Notes Red. CNA Plotted CNA Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 35
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Liden Date 5-11-58
No. Date 9-29-59 Date 10-5-59 Map No. Index [illegible] C. Johnson

F. B. 2801 Pg. 36

Job No. 0300.03 Division No. 10 Notes Red. CWH Plotted CWH

Survey of Beach Erosion Studies Date 9-29-59 Date 10-2-59 No.

Survey by Uharriet Notes Liden Notes Chkd. JSH Checked JSH

Index K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

Profile

X-Sec.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
235+00 S	Inst. Sight On S-12	# Depth Rec. Adj.	Time	Hor. Ang. 90°00'	
	21			" "	
	22			" "	
	23		6 53	" "	

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

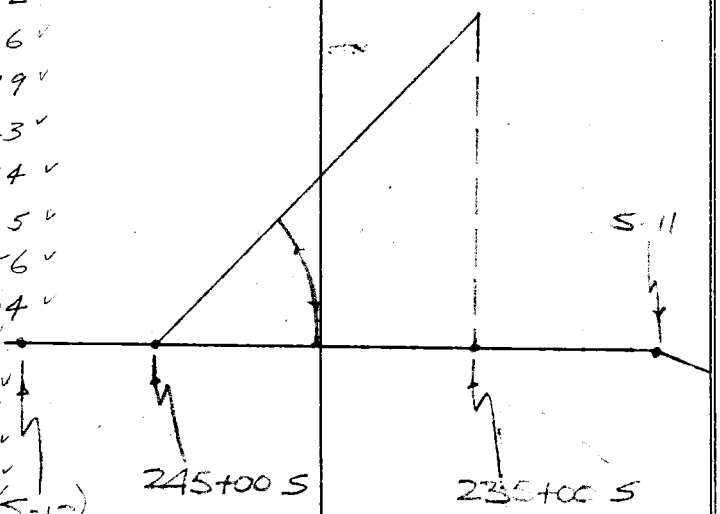
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	
245+00 S.	S-11	1	30.3	27.8	6 51	58° 04	1605
		2	29.4	26.9		57° 49	1589
		3	28.2	26.1		56° 54	1534
		4	27.7	25.2		54° 43	1413
		5	26.5	24.0		53° 18	1342
		6	25.6	23.1		52° 15	1292
		7	24.3	21.8		51° 02	1236
		8	23.3	20.8		49° 42	1179
		9	22.3	19.8		48° 19	1123
		10	20.7	18.2		47° 03	1074
		11	19.5	17.0		45° 25	1015
		12	18.0	15.5		43° 43	956
		13	15.9	13.4		42° 06	904
		14	15.1	12.6		40° 45	862
		15	14.1	11.6		39° 53	836
		16	13.0	10.5		38° 45	803
		17	11.9	9.4		37° 12	759 (S-12)
		18	11.2	8.7		36° 22	736
		19	10.3	7.8		35° 21	709
		20	9.3	6.8		34° 05	677

Remarks

Adjustments
Boat = +1.0
Zero = -0.6
Tide = -2.9
-2.5



Profile Notes Red. [illegible] Plotted [illegible] Job No. [illegible] Division No. 10 F. B. 2801 Pg. 37
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked [illegible] Survey by Charriet Notes R.L.S. Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. John

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. B.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
		21	8.5	6.0		33°25	660
		22	8.2	5.7		32°35	639
		23	7.1	4.6	6.54	31°24	610
245+005	S-11						

Adjustments
Boat = +1.0
Zero = -0.6
Tide = -2.9
-2.5

F. B. 2801 Pg. 38 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes R. L. S. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 225+00	Sight on 230+00
		19 69			DATUM MEAN LOWER LOW WATER	Inshore 230+00 S.
TP	548	19 83	534	14 35		
S-11			305	16 78	BM-S-11 EL= 16.745	PER F.B. 2100-162
S-11	301	19 76		16 75	BM-S-11 EL= 16.745	" "
230+00			348	[illegible]	CONTROL	LINE
			28	17 [illegible]		46° R. [illegible]
			60	13 5		100 R.
			74	11 1		[illegible] R.
			87	11 1		228 R. [illegible]
TP	07	8 1	124	7 4		274 R.
			34	4 7	31° 02'	301
			72	0 9	38 49	402
			89	-0 8	43 25	473
			126	-4 5	48 31	565
			136	-5 5	50 54	615
			160	-7 9	53 31	676
			160	-7 9		
			180	-9 9	55 41	733

Profile Notes Red. CWH Plotted CWH Job No. Division No.
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. [illegible] Checked Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jones

F. S. 2801 PG. 39

F. B. 2801 Pg. 40

Job No. C300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

Profile No.	Notes Red. CWH	Plotted CWH	Job No. 0300-08	Division No. 10	F. B. 2801 Pg. 41
	Date 9-24-59	Date 10-2-59	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by V Harriet	Notes Wallace	Date 8-4-59
	Date 9-29-59	Date 10-5-59	Map No.	Index [redacted] C. Jo[redacted]	

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At Sight On S-10	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		7 06	90° 00'	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

S-10

S-11

90° 00'

230+00 S

Range Line

230+00 S

76298 S & E #307—7-55

F. B. 2801 Pg. 42 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uharriet | Notes Wallace | Notes Chkd. JSH | Checked JSH | X-Sec.

Index ~~M. C. Johnson~~ | Date | Date 9-29-59 | Date 10-5-59 | No.

230+00 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
5-10	21		7 10	90° 00'		
	22			" "		

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

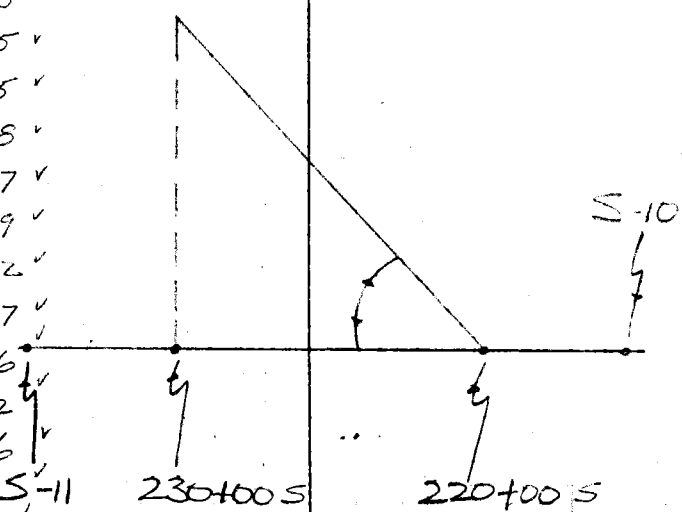
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
220+00 S.	S-11	1	29.8	27.0	708	58° 22'	1623	Adjustment
		2	28.8	26.0		57° 15'	1555	Boat = +1.0
		3	28.2	25.4		56° 16'	1498	Zero = -0.6
		4	27.4	24.6		55° 00'	1428	Tide = -3.2
		5	26.7	23.9		54° 04'	1380	-2.8
		6	25.8	23.0		52° 59'	1326	
		7	24.8	22.0		51° 24'	1253	
		8	24.0	21.2		49° 47'	1183	
		9	22.7	19.9		47° 52'	1105	
		10	21.2	18.4		46° 16'	1045	
		11	20.0	17.2		44° 21'	978	
		12	18.8	16.0		42° 49'	927	
		13	17.4	14.6		41° 18'	879	
		14	15.9	13.1		39° 26'	822	
		15	14.2	11.4		37° 50'	777	
		16	13.6	10.8		37° 05'	756	
		17	12.2	9.4		35° 28'	712	
		18	11.3	8.5		34° 28'	686	
		19	10.3	7.5		33° 09'	653	
		20	8.3	5.5		32° 12'	630	



Profile Notes Red. CWH Plotted CWH Job No. 2300-03 Division No. 10 F. B. 2801 PG. 43
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Marriott Notes R.L.S. Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2801 Pg. 44 | Job No. 03700.0 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile
Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.
Survey by Charnet | Notes R.L.S. | Notes Chkd. JSH | Checked JSH
Ind. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	21	8.1 / 5.3		30 22	598	
	22	7.6 / 4.2	7 12	29 52	574	Adjustments
						Boat = +1.0
						Zero = -0.6
						Tide = -3.2
						-2.8
2207+005						
5-11						

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 230+00 DATUM MEAN LOWER LOW WATER	Sight on 225+00 Inshore 225+00 S.
		[illegible]				
TP.	[illegible]	19 8[illegible]	[illegible]	[illegible]		
[illegible]			314	[illegible]	[illegible]	[illegible]
			22	17[illegible]		52° R. Bra
			52	146		100° R. "
			8[illegible]	117		200° R.
			[illegible]	111		2[illegible]° R. Bra
TP.	-05	72	121	77		234° [illegible]
			25	47	32 17	316
			49	23	35 48	361
			63	09	39 23	410
			67	05	41 09	437
			74	-02	43 20	472
			88	~~-08~~ -16	46 16	523
			110	-38	48 46	571
			120	-48	51 18	624
			120	-48	53 05	666
			130	-58	54 06	691
			144	-72	55 11	719
			155	-83	56 35	758

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 16 F. B. 2801 Pg. 45
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Indexed Date

F. B. 2801 Pg. 46

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

78L-298 S & E #307—1-56

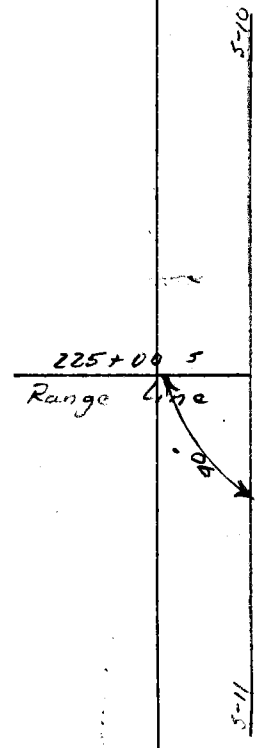
Profile No.	Notes Red. CWH	Plotted CWH	Job No. 0300.02	Division No. 10	F. B. 2801 Pg. 47
	Date 9-24-59	Date 10-2-59	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Uharriet	Notes Liden	Date 8-4-59
	Date 9-29-59	Date 10-5-59	Map No.	Index C. John[illegible]	

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. B.	H. I.	F. B.	ELEV.	Remarks
Inst. Sight At On 5-11	# Rec. Adj.	Depth	Time Hor. Ang.		
	1		7 25	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



5-10 5-11

225+00 5

Range Line

90

225+00 5

76298 S & E #307—7-55

F. B. 2801 Pg. 48

Job No. 3000.02 Division No. 10 Notes Red. CWH Plotted CWH

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Charriet Notes Liden Notes Chkd. JSH Checked JSH

Indexed ~~K. S. Johnson~~ Date Date 9-29-59 Date 10-5-59 No.

Profile

X-Sec.

225+00S

5-11

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
	21			90 00	
	22			" "	
	23			" "	
	24			" "	
	25			" "	
	26		7 30	" "	

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

76298 S & E #307—7-55

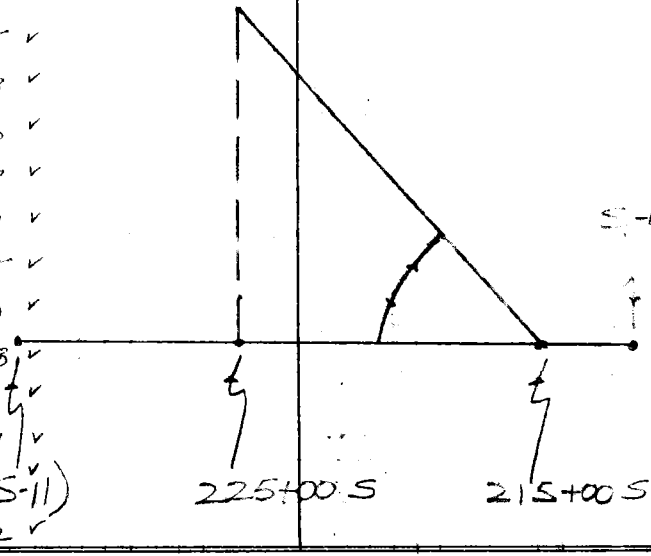
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 No. ____ Notes Red. SMH Plotted CWH Job No. 2000 Division No. 10 F. B. 28801 Pg. 49
Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JSH Checked JCH Survey by Thornton Notes P.L.S. Date 8-4-59
Date 9-28-59 Date 10-5-59 Map No. ____ Indexed C. John Hess

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
215+00 S.	S-11	1	31.7	28.7	727	60° 22'	1758	Adjustments
		2	31.0	28.0		59° 51'	1722	Boat = +1.0
		3	30.2	27.2		58° 47'	1650	Zero = -0.5
		4	29.3	26.3		57° 55'	1595	Tide = -3.5
		5	28.7	25.7		56° 48'	1528	-3.0
		6	27.4	24.4		55° 40'	1464	
		7	26.7	23.7		54° 31'	1403	
		8	26.2	23.2		53° 20'	1343	
		9	25.4	22.4		52° 5'	1285	
		10	24.4	21.4		50° 57'	1233	
		11	23.6	20.6		49° 38'	1176	
		12	22.7	19.7		48° 25'	1127	
		13	21.6	18.6		46° 55'	1069	
		14	20.7	17.7		45° 43'	1025	
		15	19.7	16.7		44° 08'	970	
		16	18.7	15.7		42° 10'	938	
		17	17.6	14.6		41° 58'	899	
		18	16.4	13.4		40° 43'	861	
		19	15.6	12.6		39° 36'	0°21' (S-11)	
		20	14.5	11.5		38° 22'	792	



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 50 | Job No. 03000 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Supplies | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.

Survey by Charrier | Notes R.L.S. | Notes Chkd. JSH | Checked JSH | No.

Indexed J. C. Johnson | Date | Date 0-29-59 | Date 10-5-59

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
	21	13.4	10.4		[illegible]	767	Adjustments
	22	12.4	9.4		[illegible]	736	Boat = +1.0
	[illegible]	11.4	8.4		[illegible]	690	? Zero = -0.5
	24	10.6	7.6		[illegible]	670	Tide = -3.5
	[illegible]	9.3	6.3		[illegible]	627	-3.0
215+005 / 5-11	[illegible]	8.4	5.4	7 31	[illegible]	611	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 225+00	Sight on 220+00
		19 32			DATUM MEAN LOWER LOW WATER	Inshore 220+00 S.
	533	20 34	491	150 1		
220+00			409	162	Control	Line
			32	169		70° [illegible]
			43	16		100° [illegible]
			69	114		205 [illegible]
			93	110		254° [illegible]
— TP.	07	80	130	73		287° [illegible]
			33	47	0 1 32 07	314
			60	20	35 54	362
			72	08	39 02	405
			85	-05	42 10	453
			94	-14	44 25	490
			103	-23	46 34	528
			140	-60	49 59	596
			130	-50	52 34	653
			149	-69	54 26	699
			153	-73	56 10	746
			166	-86	57 50	795
			184	-104	58 33	818

Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. [illegible]
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 PG. 51

F. B. 2801 Pg. 52 Job No. 0320.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

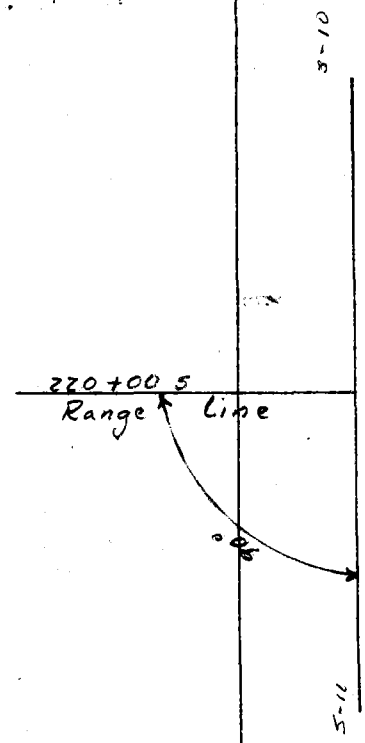
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.		Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		
	5-11		1	7 44	90 00		
			2		" "		
			3		" "		
			4		" "		
			5		" "		
			6		" "		
			7		" "		
			8		" "		
			9		" "		
			10		" "		
			11		" "		
			12		" "		
			13		" "		
			14		" "		
			15		" "		
			16		" "		
			17		" "		
			18		" "		
			19		" "		
			20		" "		



Profile Notes Red. CWH Plotted CWH Job No. 0300-03 Division No. 10 F. B. 2801 Pg. 53
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhanie Notes Lidell Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. John Date

F. B. 2801 Pg. 54 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uharriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time Hor. Ang.		
220+00S	21		90 00		
	22		"		
5-11	23		"		
	24		"		
	25		"		
	26		7 49		

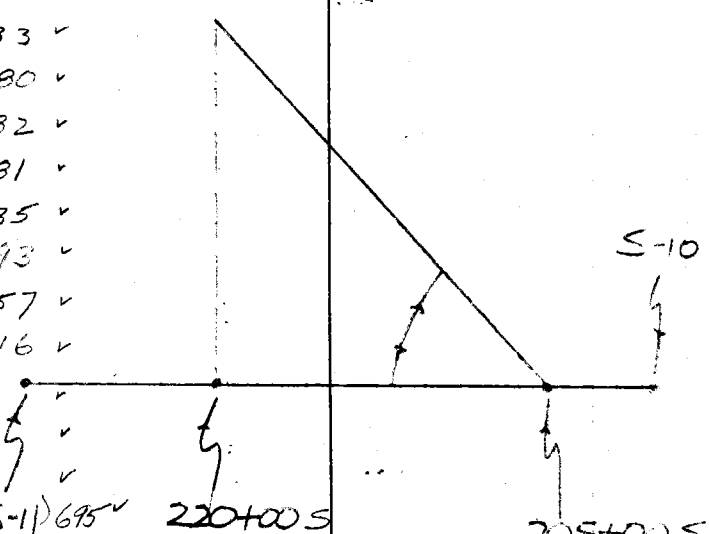
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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		S. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
205+00 S.	S-11	1	30.0	26.4	7 46	46° 32	1583	Adjustments
		2	29.1	25.5		45° 35	1532	Boat = +1.0
		3	28.1	24.5		43° 56	1445	Zero = -0.8
		4	26.6	23.0		42° 27	1373	Tide = -3.8
		5	25.2	21.6		41° 20	1320	-3.6
		6	23.8	20.2		39° 53	1254	
		7	22.8	19.2		38° 32	1194	
		8	22.1	18.5		37° 04	1133	
		9	21.8	18.2		35° 45	1080	
		10	21.2	17.6		34° 32	1032	
		11	19.3	15.7		33° 12	981	
		12	17.4	13.8		31° 55	935	
		13	15.7	12.1		30° 45	893	
		14	13.8	10.2		29° 44	857	
		15	13.6	10.0		28° 32	816	
		16	13.4	9.8		27° 42	788	
		17	12.8	9.2		26° 43	755	
		18	11.8	8.2		25° 40	722	
		19	11.1	7.5		24° 50	(S-11) 695	
		20	10.3	6.7		24° 20	678	



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. ____ Division No. 10 F. B. 2861 Pg. 55
X-Sec. No. ____ Notes Chkd. ____ Date 9-29-59 Checked ____ Date 10-5-59 Survey of Beach Erosion Studies Survey by Wharriet Notes P.L.S. Date 9-4-59 Map No. ____ Index C. Jones

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 56 | Job No. 23002 Division No. 10 Notes Red. CWH Plotted CWH
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59
Survey by Harriet Notes R.L.S. Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Rec. / Adj.	Time	Hor. Ang.		Remarks
205+005 / S-11	21	9.4 / 5.8		23° 24'	650 ✓	Adjustments
	22	8.8 / 5.2		22° 46'	630 ✓	Boat = +1.0 ✓
	23	8.1 / 4.5		22° 05'	609 ✓	Zero = -0.8
	24	7.7 / 4.1		21° 20'	587 ✓	Tide = -3.8 ✓
	25	7.1 / 3.5		20° 15'	554 ✓	-3.6 ✓
	26	6.7 / 3.1	750	19° 55'	543 ✓	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 220+00	Sight on 215+00
		20 34			DATUM MEAN LOWER LOW WATER	Inshore 215+00 S.
T.P.	265	16 55	644	13 90		
215+00			115	15 40	Control	Line
			35	13 1		100 R.
			55	11 1		200 R.
			56	11 0		244 R.
T.P.	04	84	86	8 0		269 R.
			37	47	31 51	311
			61	23	34 53	349
			77	07	39 42	415
			100	-16	43 44	478
			106	-22	46 35	528
			123	-39	49 59	596
			137	-53	52 25	650
			161	-77	58 08	718
			178	-94	57 18	779

Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 57
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Job Date

F. B. 2801 Pg. 58 Job No. 03 00 01 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

Survey by LINO Notes LINO & REF Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

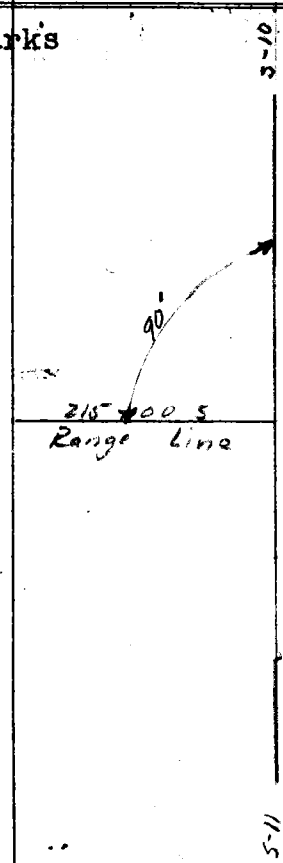
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
5-10	1		8 00	90 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		



Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 10 F. B. 280 Pg. 50
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uharriet Notes Liden Date 8-11-59
No. Date 9-29-59 Date 10-5-59 Map No. Ind. [illegible] C. John[illegible]

F. B. 2801 Pg. 60

Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Indexed A. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
	21			90 00		
	22		8 03	" "		

215+00S

5-10

76298 S & E #307—7-55

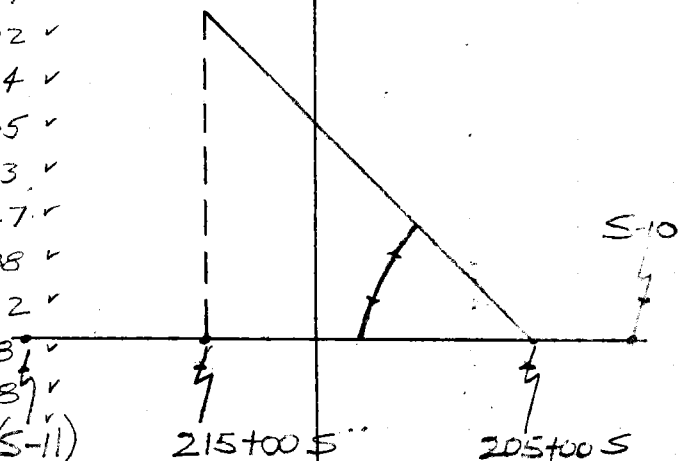
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
205+00 S.	S-11	1	28.7	25.0	801	56° 21'	1502
		2	28.1	24.4		55° 15'	1442
		3	26.6	22.9		53° 36'	1356
		4	24.9	21.2		51° 34'	1260
		5	23.8	20.1		50° 25'	1210
		6	22.7	19.0		49° 11'	1158
		7	21.8	18.1		47° 54'	1107
		8	20.8	17.1		46° 22'	1049
		9	19.6	15.9		45° 03'	1002
		10	18.7	15.0		44° 50'	994
		11	17.8	14.1		43° 23'	945
		12	17.4	13.7		41° 07'	873
		13	16.0	12.3		39° 35'	827
		14	14.4	10.7		38° 15'	788
		15	13.4	9.7		36° 34'	742
		16	11.2	7.5		35° 18'	708
		17	10.9	7.2		34° 31'	688
		18	10.1	6.4		32° 49'	645 (S-11)
		19	9.0	5.3		32° 02'	626
		20	9.2	5.5		31° 31'	613

Adjustments
Boat = +1.0
Zero = -0.8
Tide = -3.9
-3.7



Profile Notes Red. [illegible] Plotted [illegible] Job No. [illegible] Division No. 10 F. B. [illegible] Pg. 61
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Dhorriet Notes R.L.S. Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. [illegible]

F. B. 2801 Pg. 62

Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Charriet Notes R.L.S. Notes Chkd. JSH Checked JSH

Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

Profile

X-Sec.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	# Depth Rec. Adj.	Time Hor. Ang.	Remarks
205+00 S								
S-11						217.0 3.3	29° 22 563	
						226.3 2.6	805 29° 10 558	

Adjustments
Boat = +1.0
Zero = -0.8
Tide = -3.9
-3.7

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 205+00	Sight on 210+00
		16 55			DATUM MEAN LOWER LOW WATER	Inshore 210+00 S.
T.P.	517	20 4	126	15 29		
	453	20 0	498	15 48		
210+00			453	15 48	CONTROL	LINE
			57	143		100 ± R.
			87	113		200 ± R.
			96	104		237 ± R. [illegible]
T.P.	1 2	8 3	129	71		273 ± R.
			36	47	30° 23'	293
			64	19	34 50	348
			78	05	38 19	395
			112	-29	45 51	515
			111	-28	46 47	532
			109	-26	48 27	564
			116	-33	50 03	597
			151	-68	52 17	647
			162	-79	54 23	698
			175	-92	56 11	746

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible] F. B. 280 Pg. 63
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of [illegible] Notes [illegible] Date [illegible]
No. Notes Chkd. JSH Checked JSH Survey by [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 64

Job No. [illegible] Division No. 10 Notes Red. _____ Plotted _____ Profile

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

Survey by Lind Notes Lind & Eng Sh Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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 No.	Notes Red. CWH	Plotted CWH	Job No. 0300.02	Division No. 10	F. B. 2801 Pg. 65
	Date 9-24-59	Date 10-2-59	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Uharriet	Notes [illegible]	Date [illegible]
	Date 9-29-59	Date 10-5-59	Map No.	Indexed [illegible] C. Johnson	

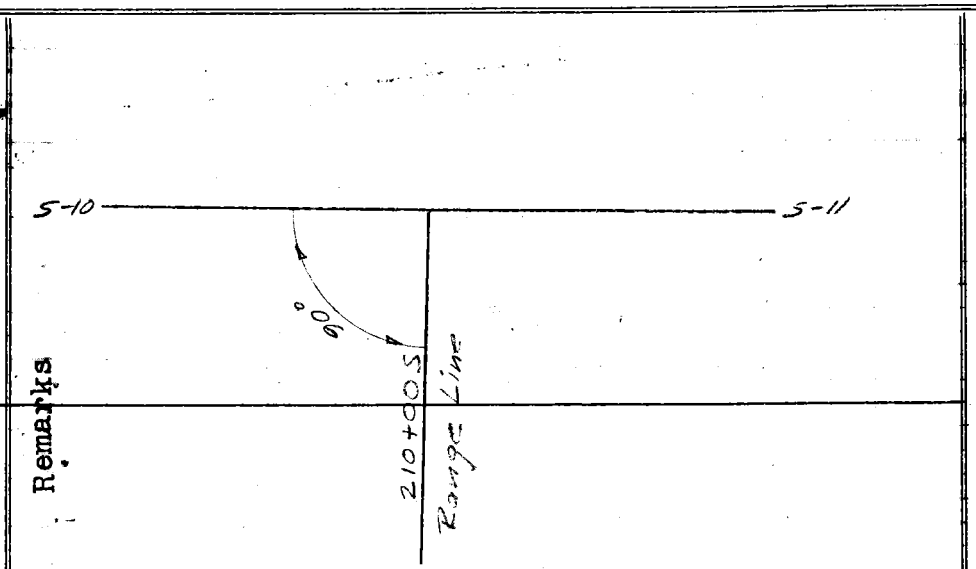
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

76298 S & E #307—7-55

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At Sight On 5-10	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		8 38	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



500+012

F. B. 2801 Pg. 66

Job No. 30002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Indexed ~~C. Johnson~~ Date Date 9-29-59 Date 10-5-59 No.

210+00 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	# Rec. Adj.	Depth	Time	Hor. Ang.		Remarks
5-10	21			90 00		
	22			" "		
	23			" "		
	24			" "		
	25		841	" "		

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

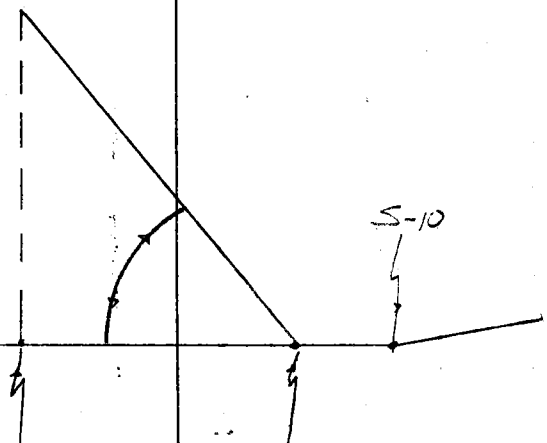
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	#	B. S. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
195+00 S.	S-11	1	30.8	26.8	8 38	48° 11'	1677	Ajustments
		2	29.6	25.6		46° 50'	1599	Boat = +1.0
		3	28.1	24.1		45° 24'	1521	Zero = -0.8
		4	27.4	23.4		43° 59'	1448	Tide = -4.2
		5	26.3	22.3		42° 32'	1376	-4.0
		6	26.3	22.3		41° 31'	1328	
		7	26.3	22.3		40° 09'	1266	
		8	25.1	21.1		38° 22'	1188	
		9	24.8	20.8		36° 58'	1130	
		10	23.3	19.3		35° 11'	1058	
		11	21.7	17.7		33° 22'	989	
		12	20.1	16.1		31° 56'	932	
		13	18.3	14.3		30° 14'	875	
		14	17.2	13.2		28° 53'	828	
		15	15.3	11.3		27° 48'	791	
		16	14.3	10.3		26° 36'	752	
		17	13.4	9.4		26° 01'	732	
		18	11.8	7.8		24° 54'	696	
		19	10.7	6.7		24° 00'	(S-11) 668	210+00 S.
		20	9.8	5.8		23° 16'	645	



Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 10 F. B. 2801 Pg. 67
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes RLS Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Index [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.8	4.8		22° 03'	608	Adjustments
		22	8.3	4.3		21° 22'	587	Boat = +1.0
		23	7.5	3.5		20° 33'	563	Zero = -0.8
		24	6.8	2.8		19° 16'	525	Tide = -4.2
		25	6.3	2.3	8 42	18° 30'	503	-4.0
195+005	S-11							

F. B. 2801 Pg. 68 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes R.C.S. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 200+00	Sight on 205+00
		20 01			DATUM MEAN LOWER LOW WATER	Inshore 205+00S.
T.P.	470	12 28	643	13 53		
T.P.	195	18 76	147	16 81		
205+00 S.			251	16 25	CONTROL	LINE
			275	16 01		8E R. EDGE [illegible]
			45	14 31		9E " [illegible]
			39	14 9		100E "
			79	10 9		200E "
			52	10 6		224E "
			112	7 6		[illegible]
T.P.	23	7 0	141	47	0 1 [illegible]	299
			51	19	[illegible]	356
			70	00	[illegible]	422
			80	-10	[illegible]	474
			95	-25	[illegible]	536
			135	-65	52 51	663
			157	-87	52 29	727

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible] F. B. 2801 Pg. 69
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of [illegible]
No. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed [illegible] Date

F. B. 2801 Pg. 70

Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

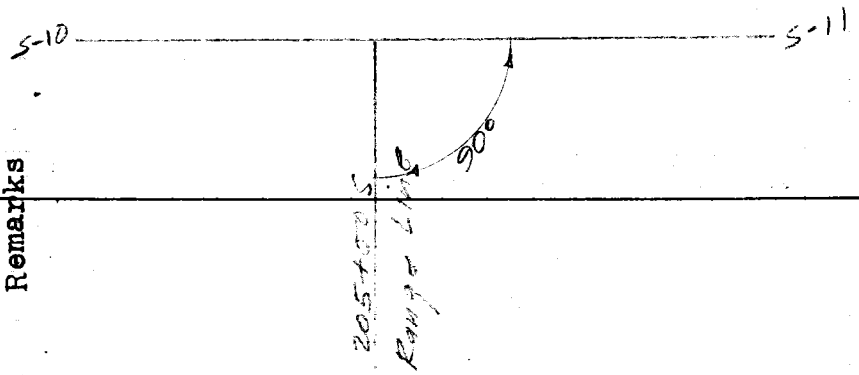
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 2801 Pg. 71

Profile No.	Notes Red. [illegible]	Plotted [illegible]	Job No. [illegible]	Division No. 10	
	Date 9-29-59	Date 10-2-59	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by [illegible]	Notes [illegible]	Date 8-4-59
	Date 9-29-59	Date 10-5-59	Map No.	Indexed C. John[illegible]	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On S-11	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		8 58	90 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

205+50.5

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

F. B. 2801 Pg. 72 | Job No. 2303.02 Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No.

Survey by Charriet | Notes Lidow | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed J. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

205+00 S

STATION	S. S.	H. I.	F. S.	ELEV.	Inst. Sight At On	# Rec. Adj. Depth	Time Hor. Ang.	Remarks
					5-11	21	30 30	
						22		
						23		
						24		
			5 22			25		

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

76298 S & E #307—7-55

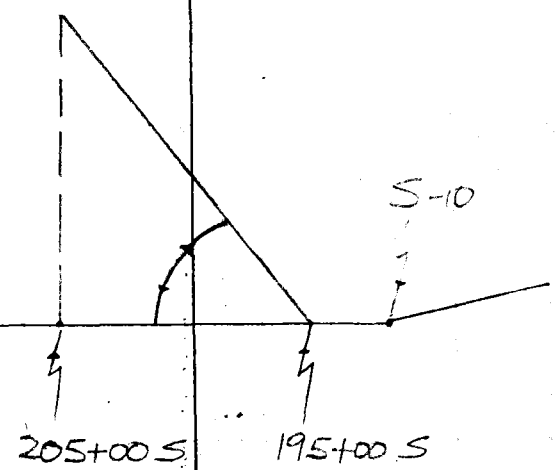
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 No. ____ Notes Red. CMH Date 9-24-59 Plotted ____ Date ____ Job No. ____ Division No. 10 Survey of Beach Erosion Study
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by ____ Notes P.T.S. Date 8-4-59 Map No. ____ Index ____ Date ____ Notes C. Johnson Date ____ F. B. 2801 Pg. 74

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		
	1	29.6 / 25.6	8 59	57° 16′	1556 ✓	Adjustments
	2	28.5 / 24.5		56° 12′	1494 ✓	Boat = +1.0 ✓
	3	28.2 / 24.2		55° 04′	1432 ✓	Zero = −0.7 ✓
	4	27.3 / 23.3		53° 51′	1369 ✓	Tide = −4.3 ✓
	5	26.8 / 22.8		52° 24′	1299 ✓	−4.0 ✓
	6	26.3 / 22.3		50° 55′	1231 ✓	
	7	25.3 / 21.3		49° 22′	1165 ✓	
S. 195+00	8	24.0 / 20.0		47° 40′	1098 ✓	
	9	22.8 / 18.8		46° 02′	1037 ✓	
	10	21.6 / 17.6		44° 23′	979 ✓	
S-11	11	19.8 / 15.8		42° 22′	912 ✓	
	12	17.7 / 13.7		40° 42′	860 ✓	
	13	15.7 / 11.7		39° 35′	827 ✓	
	14	14.3 / 10.3		37° 11′	759 ✓	
	15	13.3 / 9.3		36° 23′	737 ✓	
	16	12.6 / 8.6		35° 20′	709 ✓	
	17	11.7 / 7.7		34° 20′	683 ✓	
	18	10.7 / 6.7		33° 30′	662 ✓	
	19	9.6 / 5.6		32° 06′	629 ✓	
	20	8.7 / 4.7		31° 16′	607 ✓	



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.1	4.1		30° 28'	588	Adjustments
		22	7.6	3.6		29° 40'	570	Boat = +1.0
		23	7.3	3.3		28° 28'	542	Zero = -0.7
		24	6.9	2.9		27° 40'	524	Tide = -4.3
		25	6.6	2.6	9 03	26° 28'	498	-4.0
195+00S	5-11							

F. B. 2801 Pg. 74 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Uharriet Notes R.L.S. Notes Chkd. JSH Checked JSH X-Sec.
Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 195+00	Sight on 200+00
		18 76 ✓			DATUM MEAN LOWER LOW WATER	Inshore 200+00 S.
[illegible]	[illegible]	20 [illegible] ✓	217	16 59 ✓		
200+00 S.			[illegible]	[illegible] ✓	Control	Line
			34	16 7 ✓		76° R. [illegible]
			53	14 8 ✓		100° R.
			58	11 5 ✓		200° R.
			92	10 5		[illegible]
			[illegible]	7 5		267° R.
T.P.	3 0	7 8	15 3	4 8	0 1 30 54	299 ✓
			4 6	3 2	35 07	352 ✓
			6 7	1 1	[illegible]	416 ✓
			7 8	0 0	[illegible]	473 ✓
			9 0	1 2	46 23	523 ✓
			11 1	3 3	[illegible] 31	609 ✓
			14 0	6 2	53 46	682 ✓
			16 5	8 7	55 41	733 ✓

Profile No. ____ Notes Red CWH Plotted CWH Job No. ____ Division No. ____ F. B. 2801 Pg. 75
Date 9-24-59 Date 10-2-59 Survey of [illegible] [illegible] Stories
X-Sec. No. ____ Notes Chkd JSH Checked JSH Survey by [illegible] Notes [illegible] Date ____
Date 9-10-59 Date 10-5-59 Map No. ____ Index [illegible] C. John[illegible]

F. B. 2801 Pg. 76 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 No. ____ X-Sec. No. ____ Notes Red. CWH Date 9-24-59 Notes Chkd. JSH Date 9-29-59 Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59 Job No. ____ Survey of Beach Erosion Studies Survey by ____ Map No. ____ Division No. 10 Notes ____ Indexed C. Johnson Date ____ F. B. 2331 Pg. 77

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
S-11	1		9 21	90 00		S-10
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "	200+00 S	
	8			" "	Range Line	
	9			" "		
	10				90°	
	11					
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		S-11
	19			" "		
	20			" "		

200+00 S

F. B. 2801 Pg. 78 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No.

Survey by Uharriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Index J. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	# Rec. Adj. Depth		Time	Hor. Ang.		Remarks
5-11	21			90 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28			" "		
			25			

200+00 S

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

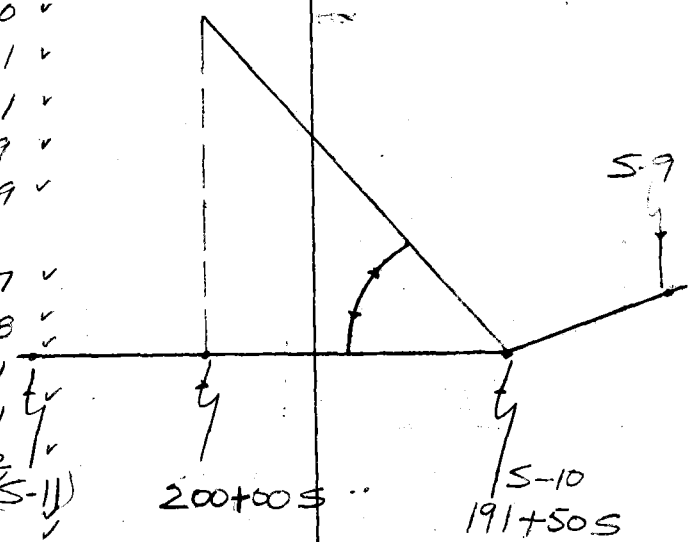
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	32.0	28.0	9 22	65° 00'	1823	
		2	31.5	27.5		64° 08'	1754	
		3	30.8	26.8		63° 12'	1683	
		4	30.3	26.3		61° 55'	1593	
		5	29.6	25.6		60° 55'	1528	
		6	28.7	24.7		59° 53'	1465	
		7	27.4	23.4		58° 55'	1410	
		8	26.7	23.7		57° 26'	1331	
		9	26.7	22.7		56° 13'	1271	
		10	25.6	21.6		54° 40'	1199	
		11	24.4	20.4		52° 46'	1119	
		12	23.4	19.4		5	—	
		13	22.5	18.5		50° 08'	1017	
		14	21.7	17.7		49° 01'	978	
		15	18.4	14.4		47° 35'	931	
		16	17.4	13.4		46° 02'	881	
		17	16.6	12.6		44° 42'	842	
		18	15.5	11.5		43° 34'	808 (S-11)	
		19	14.7	10.7		42° 26'	777	
		20	13.5	9.5		41° 18'	747	

191+50 S.
S-10
S-11

Adjustments
Boat = +1.0
Zero = -0.7
Tide = -4.3
-4.0



Profile Notes Red CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2891 Pg. 79
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd JSH Checked JSH Survey by [illegible] Notes R.L.S. Date 8-4-59
No. Date 9-19-59 Date 10-5-59 Map No. Indexed C. John

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	12.2	8.2		39° 43'	706	Adjustments
		22	11.2	7.2		38° 22'	673	Boat = +1.0
		23	10.0	6.0		37° 20'	648	Zero = -0.7
		24	9.0	5.0		36° 05'	620	Tide = -4.3
		25	8.6	4.6		35° 26'	605	-4.0
		26	7.8	3.8		34° 01'	574	
		27	7.0	3.0		33° 00'	552	
		28	6.5	2.5	9 26	31° 42'	525	
191+50 S	S-11							

F. B. 2801 Pg. 80 Job No. 230002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by Uharriet Notes R. L. S. Notes Chkd. JSH Checked JSH
Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 200+00	Sight on 195+00
		200			DATUM MEAN LOWER LOW WATER	Inshore 195+00S.
	385	1960	431	1575		
195+00S.			305	1655	Control	Line
			31	165		35° R.
			52	144		100° R.
			86	110		200° R.
			90	106		244° R. to [illegible]
			125	71		
T.P.	20	67	149	47	31° 32'	307
			48	19	35 43	360
			70	-03	40 32	428
			79	-12	[illegible]	477
			102	-35	49 26	564
			123	-56	[illegible]	611
			148	-81	[illegible]	684
			170	-103	56 53	767

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible] F. B. 2801 PG. 31
No. X-Sec. Date 9-24-59 Date 10-2-59 Survey of [illegible]
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. John [illegible]

F. B. 280/ Pg. 82

Job No. 6700.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed Date Date Date No.

76L-298 S & E #307—1-56

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.	

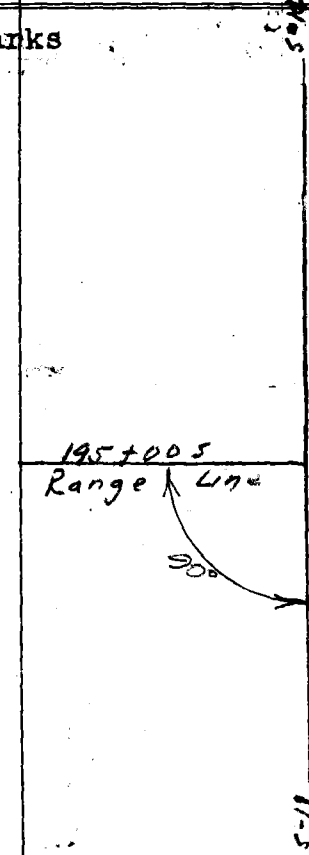
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	5-11	1		9 46	90 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



Profile Notes Red. CWH Plotted CWH Job No. 03002 Division No. 10 F. B. 2801 Pg. 83
No. Date 9-30-59 Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uharriet Notes Lider Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 84 | Job No. 0300.03 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | No.

Survey by Ubriet | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed L. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Rec. Adj.	Depth	Time	Hor. Ang.	
5-11	21			90 00	
	22			" "	
	23		9 50	" "	
195 +00 S					

76298 S & E #307—7-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

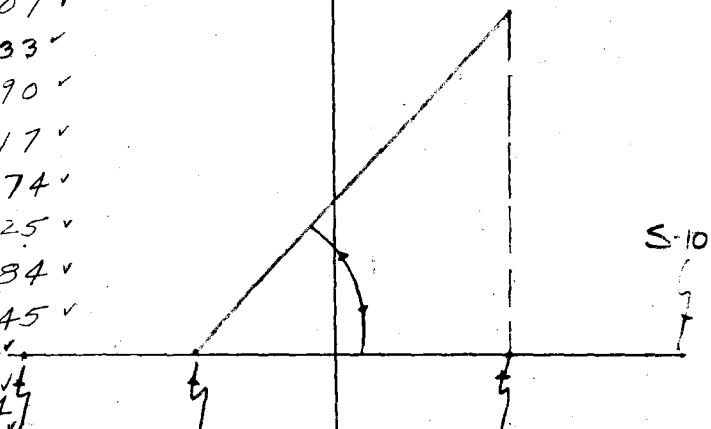
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	#	B. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
205+00 S.	S-10	1	31.3	27.5	9 47	60° 30'	1768	Adjustments
		2	30.1	26.3		58° 42'	1645	Boat = +1.0
		3	29.2	25.4		55° 52'	1475	Zero = -0.6
		4	28.5	24.7		54° 51'	1420	Tide = -4.2
		5	27.8	24.0		53° 02'	1330	-3.8
		6	26.1	22.3		51° 18'	1248	
		7	25.2	21.4		49° 32'	1172	
		8	24.3	20.5		47° 55'	1107	
		9	23.0	19.2		45° 55'	1033	
		10	21.5	17.7		44° 42'	990	
		11	19.8	16.0		42° 31'	917	
		12	17.9	14.1		41° 09'	874	
		13	16.4	12.6		39° 31'	825	
		14	15.2	11.4		38° 06'	784	
		15	13.8	10.0		36° 41'	745	
		16	12.7	8.9		35° 14'	706	
		17	11.7	7.9		34° 23'	684	
		18	10.9	7.1		33° 28'	661	
		19	9.5	5.7		32° 20'	(S-11) 633	
		20	9.2	5.4		30° 43'	594	



Profile
Notes Red. CWH Plotted CWH Lab No. 03320 Division No. 10 F. B. 2891 Pg. 85
No. Date Date 12-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Note: C. Jean Date 8-4-55
No. Date 9-29-59 Date 12-3-59 Map No. Indexed Date

F. B. 2801 Pg. 86 Job No. 030202 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes R. L. S. Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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		Depth # Rec. Adj.	Time	Hor. Ang.	
		21 8.2 4.4		29°07'	557
		22 7.5 3.7		28°32'	544
		23 6.9 3.1	9 51	27°21'	517

Remarks

Adjustments

Boat = +1.0

Zero = -0.6

Tide = -4.2

-3.8

205+00S

S-10

76L-298 S & E #907—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 F. B. 2801 PG. 87

X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey of [illegible] Survey by [illegible] Map No. ____ Notes [illegible] Date 8-4-59 Index [illegible] C. Job [illegible]

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 185+00	Sight on 190+00
		12.50			DATUM MEAN LOWER LOW WATER	Inshore 190+00S.
T.P.	+20	19.19	381	15.79		
190+00			335	16.64	Centerline	Line
			31	16.9		370 L
			47	15.3		100° R.
			77	12.3		200° R
			88	11.2		243° L. T. Beam
			190	7.0		293° R.
	12	5.9	153	4.7	0 1	298
			43	1.6	34 [illegible]	346
			68	-0.9	30 [illegible]	413
			75	-1.6	[illegible]	460
			100	-4.1	57 [illegible]	540
			123	-6.4	50 [illegible]	617
			140	-8.1	53 [illegible]	663
			173	-11.4	55 [illegible]	733

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.		
		19 99				
S-10			3 21	16 78	B M S-10 EL= 16.785 PER ED2100-16	
					END OF WORK ON 8-4-59	

F. B. 2801 PG. 88 Job No. 03602 Division No. 10 Notes Red. CWH Plotted Profile
Survey of Beach Erosion Studies Date 9-24-59 Date No. X-Sec.
Survey by Lind Notes Lind Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
	5-9	1		10 11	90 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		190+00 S
		10			" "		Range Line
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		

190+00 S

5-9

90°

5-10

Profile Notes Red. CWH Plotted CWH Job No. 030202 Division No. 10 F. B. 2801 Pg. 89
No. Date Date 10-2-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uberriet Notes Liden Date 8-4-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Job

F. B. 2801 Pg. 90

Job No. 2340.02 Division No. 13 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Charriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Index R. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

190+005

5-9

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	# Rec. Adj.	Depth	Time	Hor. Ang.	Remarks
	21			90 00	
	22			" "	
	23			" "	
	24			" "	
	25			" "	
	26		10 15	" "	

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

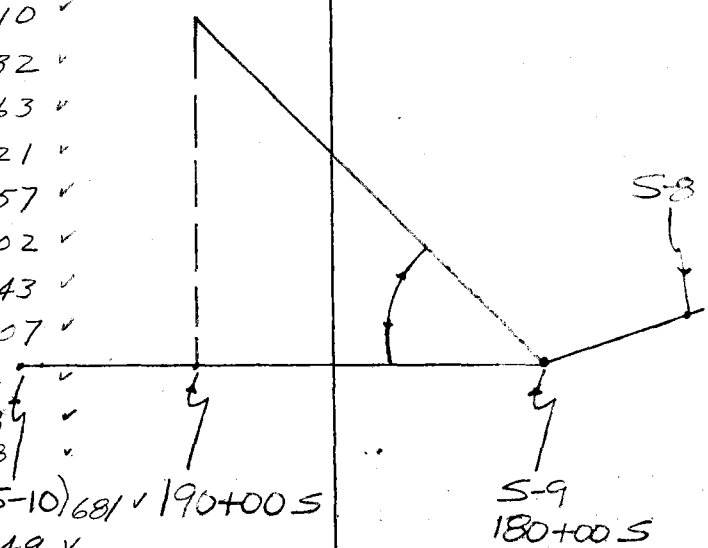
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
		1	32.4	28.7	10 12	61° 40'	1855
		2	31.1	27.4		59° 38'	1707
		3	29.6	25.9		57° 53'	1593
		4	28.6	24.9		56° 15'	1497
		5	27.6	23.9		54° 37'	1408
		6	26.6	22.9		53° 18'	1342
		7	26.3	22.6		52° 09'	1287
		8	25.4	21.7		50° 26'	1210
		9	24.9	21.2		48° 32'	1132
		10	23.7	20.0		46° 45'	1063
		11	22.1	18.4		45° 35'	1021
		12	20.5	16.8		43° 45'	957
		13	18.8	15.1		42° 03'	902
		14	17.0	13.3		40° 01'	843
		15	15.7	12.0		38° 54'	807
		16	14.3	10.6		37° 41'	772
		17	13.2	9.5		36° 25'	738
		18	12.3	8.6		35° 19'	708
		19	11.6	7.9		34° 15'	(S-10) 681
		20	10.7	7.0		33° 00'	649

180+00 S.
S-9
S-10

Adjustments
Boat = +1.0
Zero = -0.6
Tide = -4.1
-3.7



Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 10 F. B. L801 Pg. 91
Date 9-24-59 Date [illegible] Survey of [illegible]
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by Uherrie Notes R.L.S. Date 8-4-59
Date 9-29-59 Date 10-3-59 Map No. ____ Indexed C. John

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	9.6	5.9		31° 36	615 ✓	Adjustment
		22	8.6	4.9		30° 15	583 ✓	Boat = +1.0 ✓
		23	7.7	4.0		29° 02	555 ✓	Zero = -0.6 ✓
		24	6.9	3.2		27° 58	531 ✓	Tide = -4.1 ✓
		25	6.7	3.0		27° 04	511 ✓	-3.7 ✓
		26	6.2	2.5	10 16	26° 21	495 ✓	
1.80+00 S	S-10							

F. B. 2801 PG. 92 Job No. 0300.04 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.
Survey by Morrel Notes R.L.S. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date 9-29-59 Date 10-5-59 No.

763098 CE #247—7-53

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

Notes Ck'd by
Map No.
Office Work CEH
Checked JSH
Date 8-2-54

Survey of
JN Tape Std
Surveyed by
Notes Date
Indexed

F. B. PG.

F. B. 2801 Pg. 93A

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by CWH	Survey of Beach Erosion Study
Map No.	JN 300.02 Tape Std °F
Office Work	Surveyed by UHarriet
Checked	Notes Eller Date 8-5-59
Date 9-2-59	Indexed [redacted] C. Johnson [redacted]

8-5-59

2.8 ~~3.0~~ ON DATUM LINE of Tide Gauge SANTA MONICA

GAUGE TIME (P.S.T) — 12:15

WATCH TIME (P.S.T) — 12:18

STANDARD TIME	GAUGE READING	
5:00 A.M.	~~+0.5~~	+0.3
5:30	~~+0.9~~	+0.7
6:00	~~+1.4~~	+1.2
6:30	~~+2.0~~	+1.8
7:00	~~+2.6~~	+2.4
7:30	~~+3.3~~	+3.1
8:00	~~+3.8~~	+3.6
8:30	~~+4.3~~	+4.1
9:00	~~+4.6~~	+4.4
9:30	~~+4.8~~	+4.6
10:00	~~+4.8~~	+4.6
10:30	~~+4.7~~	+4.5
11:00	~~+4.5~~	+4.3

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

F. B. 2801 PG. 94

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 190+00	Sight on 185+00
					DATUM MEAN LOWER LOW WATER	Inshore 185+00 S.
S-10	[illegible]	20 11		16.79	B.M. S-10 EL. 16.785 per [illegible]	
185+00			374	14 37	Control	Line
			62	13 9		100° R.
			82	11 9		200° R.
			88	11 3		250° R. Top [illegible]
- T.P.	0 3	6 8	13 [illegible]	6 5		283° R.
			2 1	4 7		295° R.
			3 3	3 5	32° 20'	320
			4 5	2 3	35 [illegible]	362
			6 2	0 6	37 [illegible]	401
			7 3	-0 5	41 [illegible]	436
			8 2	-1 4	[illegible] 19	471
			9 7	-2 9	43 [illegible]	481
			9 7	-2 9	47 58	555
			13 7	-6 9	52 16	646
			14 0	-7 2	54 26	699
			15 2	-8 4	56 01	742

Profile No. X-Sec. No. Notes Red CWH Date [illegible] Plotted CWH Date 10-7-59 Job No. [illegible] Division No. [illegible] Survey of [illegible]
Notes Chkd. JSH Date 9-1-59 Checked JSH Date 10-5-59 Survey by [illegible] Notes [illegible] Date [illegible]
Map No. Indexed C. Johnson Date [illegible]

F. B. [illegible] Pg. 95

F. B. 2801 Pg. 96 Job No. 2300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH ELEVATOR [illegible] Date 9-24-59 Date 10-2-59 No.

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

Indexed Date Date 9-29-59 Date 10-5-59 No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-58

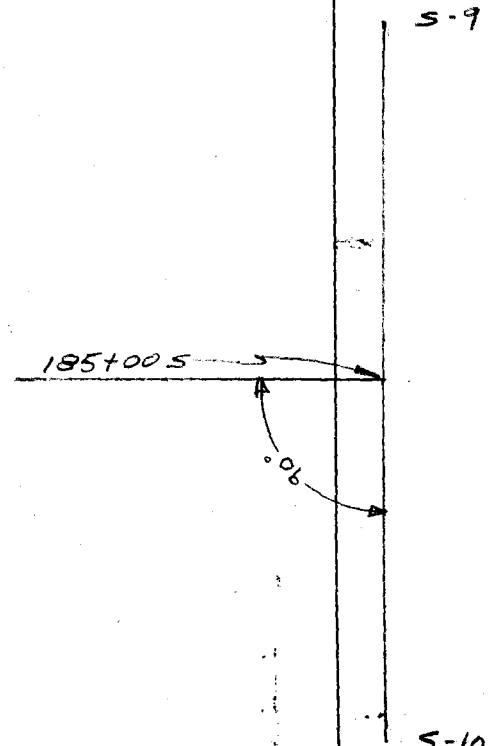
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-10	1		6 05	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



185+00 S

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 97
No. Date 7-21-59 Date 10-2-59 Survey of Ranch Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhernick Notes Eller Date 8-5-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Jones Date

F. B. 2801 Pg. 98 | Job No. 0300-02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of Beach Erosion Study Date 9-29-59 Date 10-2-59 No. X-Sec.
Survey by Wharnet Notes Eller Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No. Profile

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
5-10	21			90 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
185+00 S	28			" "		
	29			" "		
	30			" "		
	31			" "		
	32		6 11	" "		

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

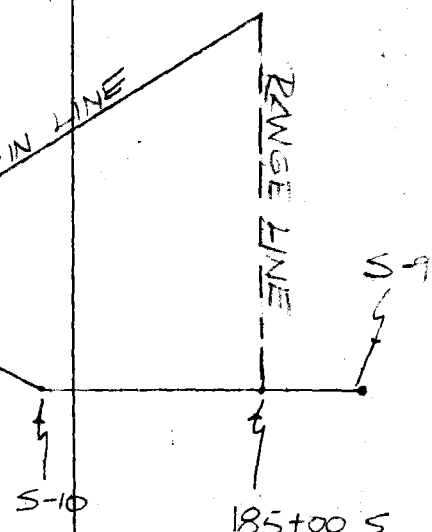
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME, OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. 10 F. B. 2801 Pg. 99
Notes Red. CMH Plotted CMH Job No. 0300.02 Division
Date Date Survey of REACH
X-Sec. Notes Chkd. JSH Checked JSH Survey by DHARKE, Jones, R.L. Sorn 8-5-51
No. Date Date Map No. Index C. Job Date

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

Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
195+00 S	S-10	1	33.8	32.9	6 05	69° 17'	2219	Adjustments
		2	32.9	32.0		68° 22'	2134	Boot = +1.0
		3	32.2	31.3		67° 30'	2051	Zero = -0.5
		4	31.3	30.4		66° 54'	2000	Tide = -1.4
		5	30.6	29.7		65° 18'	1905	-0.9
		6	30.5	29.6		64° 21'	1806	
		7	30.2	29.3		63° 39'	1746	
		8	29.4	28.5		62° 24'	1664	
		9	28.6	27.7		61° 09'	1586	
		10	27.8	26.9		59° 50'	(S-11) 1509	
		11	27.0	26.1		58° 32'	1439	
		12	26.5	25.6		57° 16'	1373	
		13	25.3	24.4		55° 53'	1306	
		14	24.1	23.2		54° 59'	1265	
		15	23.4	22.5		53° 30'	1203	
		16	22.8	21.9		52° 22'	1156 (195+00 S)	
		17	21.6	20.7		50° 59'	1102	
		18	20.7	19.8		49° 44'	1055	
		19	20.2	19.3				
		20	19.2	18.3				



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 100 Job No. 8300.02 Division No. 10 Notes Red CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
1954005	5-10	21	18.4	17.5		47° 24	975	Adjustments
		22	17.1	16.2		46° 22	943	Boat = +1.0
		23	16.6	15.7		45° 41	923	Zero = -0.5
		24	14.8	13.9		44° 31	885	Tide = -1.4
		25	13.9	13.0		43° 13	845	-0.9
		26	12.9	12.0		42° 00	810	
		27	12.3	11.4		41° 05	784	
		28	11.2	10.3		39° 35	744	
		29	10.6	9.7		38° 51	725	
		30	10.1	9.2		38° 11	708	
		31	9.2	8.3		37° 01	678	
		32	8.7	7.8	0 10	35° 51	649	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 185+00	Sight on 180+00
		20 11			DATUM	INSHORE
T.P.	528	20 55	484	15 27	MEAN LOWER LOW WATER	180+00 S.
180+00 S			330	17 25	CONTROL	LINE
			41	16 5		100 R.
			82	12 4		200 R.
			87	11 9		250 R.
	0 8	8 1	133	7 3		283 R.
			3 4	4 7	31° 36'	308
			6 5	1 6	36 22	368
			8 7	-0 6	41 37	444
			10 6	-2 5	45 20	506
			12 8	-4 7	49 09	578
			14 6	-6 5	51 44	634
			16 5	-8 4	53 50	684
			18 0	-9 9	55 42	733

Profile Notes Red CWH Plotted CWH Job No. 0700.02 Division No. 11
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Job [illegible]

F.B. 2801 PG. 101

F.B. 2801 Pg. 102

Job No. 080002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by Lind Notes Lind & English Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-296 CE 307 11-58

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	5-10	1.		6 31	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "	180+00 S Range Line	
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		

180+00 S

S-9

90°

S-10

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 123
No. Date 9-4-59 Date 10-1-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhlhorn et Notes Eller Date 8-5-59
No. Date 9-[illegible] Date 10-5-59 Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-10	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26		6 36	" "		
180+00S							

F. B. 2801 PG. 104 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by Harriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

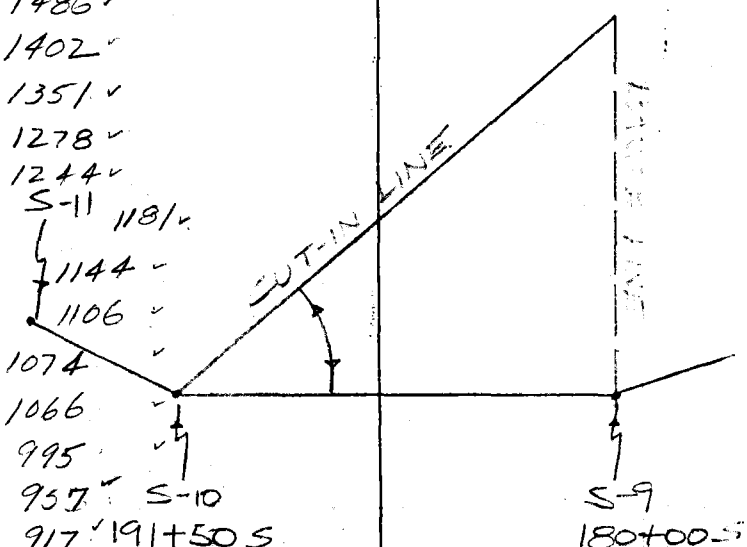
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	
		1	33.8	32.3	6 31	61° 33	2123
		2	33.1	31.6		60° 24	2024
		3	31.6	30.1		58° 58	1911
		4	30.2	28.7		56° 45	1754
		5	29.6	28.1		55° 00	1642
		6	28.8	27.3		53° 41	1565
		7	27.9	26.4		52° 16	1486
		8	26.4	24.9		50° 38	1402
		9	25.7	24.2		49° 36	1351
191+50 S. S-10	S-9	10	25.0	23.5		48° 01	1278
		11	24.0	22.5		47° 16	1244
		12	22.8	21.3		45° 46	S-11 1181
		13	22.0	20.5		44° 52	1144
		14	21.6	20.1		43° 53	1106
		15	20.8	19.3		43° 02	1074
		16	19.6	18.1		42° 50	1066
		17	18.5	17.0		40° 51	995
		18	17.8	16.3		39° 45	957
		19	16.8	15.3		38° 34	917
		20	15.7	14.2		37° 31	883

Remarks

Adjustments
Boat = +1.0
Zero = -0.6
Tide = -1.9
-1.5



Profile No. ____ Notes Red CWH Date 9-1-59 Plotted CWH Date 10-1-59 Job No. 0[illegible] Division No. 10 F. B. 2801 Pg. 105
X-Sec. No. ____ Notes Chkd JSH Date 9-19-59 Checked JSH Date 10-5-59 Survey of REACH [illegible] Survey by CHARRIET Notes R.L.S. Date 8-5-59 Map No. ____ Index C. John Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 106 Job No. 03C002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by CHARGET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	S. S. #	H. I. Rec	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
1917+505	5-9	21	13.8	12.3		36° 27	850	Adjustments
		22	13.2	11.7		35° 38	825	Boat = +1.0
		23	12.8	11.3		34° 25	788	Zero = -0.6
		24	12.6	11.1		33° 45	768	Tide = -1.9
		25	12.4	10.9		33° 21	728	-1.5
		26	12.3	10.8	6 35	31° 49	713	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. @ 180+00S	Sight on 175+00S
		20 55			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	3.76	20 41	3 40	17 15		175+00 S.
175+00			2 47	17 44	CONTROL	LINE
			3 2	17 7		49° R.
			5 8	15 1		100° R.
			8 3	12 6		200° R.
			9 0	11 9		216° R. BRK.
T.P.	7 4	5 6	15 7	5 2		262° R.
1			3 0	2 6	30°55'	299
2			5 0	0 6	34°48'	348
3			6 4	-0 8	38°40'	400
4			9 1	-3 5	45°52'	515
5			10 1	-4 5	47°25'	544
6			11 5	-5 9	49°23'	583
7			13 0	-7 4	50°53'	615
8			14 6	-9 0	52°43'	657
9			15 5	-9 9	54°14'	694
10			16 6	-11 0	55°34'	729
11			0 9	+4 7	28°03'	266

Profile No. X-Sec. No.
Notes Red CWH Date 9-24-59 Notes Chkd. JSH Date 9-29-59
Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59
Job No. 0300.02 Survey of [illegible] Survey by [illegible] Map No. Indexed
Division No. [illegible] Notes [illegible] Date
F.B. 2801 Pg. 107

F.B. 2801 Pg. 108

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-266 CE 307 11-58

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.	Remarks
Inst. At / Sight On	# Rec. / Depth Adj.		Time	Hor. Ang.	
5-9	1		6 52	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	175+00 S
175+00 S	10			" "	
	11			" "	90°
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	5-9
	19			" "	
	20			" "	

5-8

Profile Notes Red. CWH Plotted CWH Job No. 3800-02 Division No. 10 F. B. 2801 Pg. 109
No. Date Date Survey of Reach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Whittlet Notes Ellen Date 8-5-54
No. Date 8-29-54 Date 10-5-54 Map No. Indexed C. Johnson Date

F. B. 2801 PG. 110 | Job No. 0300-02 Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDY | Date 9-24-59 | Date 10-2-59 | No.

Survey by UHANNIET | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
175+00 S					
Inst. Sight At On 5-9					
	#	Depth Rec. Adj.	Time	Hor. Ang.	
	21			90° 00	
	22			" "	
	23		7 56	" "	

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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

76298 S & E #307—7-55

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

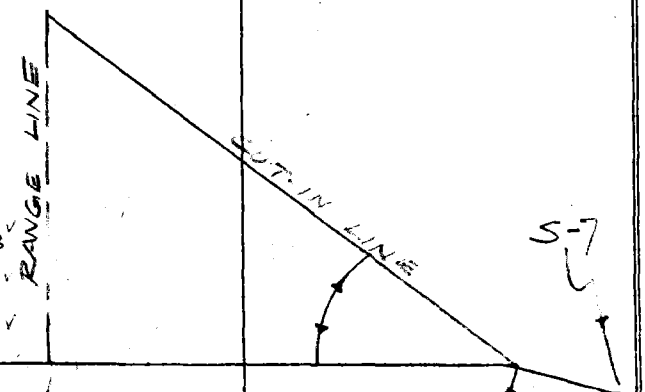
Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 111
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey of PAC. EXPRESSWAY STUDIES
Date 8-29-55 Date 8-29-55 Date 8-30-55 Survey by DARRIET Notes K.L.D. Date 8-25-55
Map No. ____ Map Chkd. Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.
		1	30.8 / 28.9	6 52	60° 52'
		2	30.1 / 28.2		59° 55'
		3	29.6 / 27.7		58° 52'
		4	29.1 / 27.2		57° 29'
		5	28.5 / 26.6		56° 05'
		6	27.6 / 25.7		54° 45'
		7	26.1 / 24.2		53° 11'
		8	24.7 / 22.8		51° 22'
		9	23.6 / 21.7		49° 49'
165+00 S	S-9	10	22.7 / 20.8		48° 10'
S-8		11	21.6 / 19.7		46° 35'
		12	20.2 / 18.3		44° 29'
		13	18.9 / 17.0		43° 10'
		14	17.8 / 15.9		41° 56'
		15	16.2 / 14.3		40° 54'
		16	15.6 / 13.7		39° 52'
		17	14.6 / 12.7		38° 55'
		18	13.2 / 11.3		37° 48'
		19	13.1 / 11.2		36° 44'
		20	12.5 / 10.6		35° 30'

1794	
1726	
1656	
1569	
1487	
1415	
1336	
1251	
1184	
1117	
1057	
982	
(S-9) 938	
898	
866	
835	
807	
776	
746	175+00 S
713	

Remarks

Adjustments
Beat = +1.0
Zero = -0.6
Tide = -2.3
-1.9



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 1/2 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BENCH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Jobson Date Date 9-29-59 Date 10-5-59 No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
1657005	5-9	21	11.6	9.7		34° 22'	684	ADJUSTMENTS
		22	10.8	8.9		34° 01'	675	BOAT = +1.0
		23	10.3	8.4	6 55	32° 42'	642	ZERO = -0.6
								TIDE = -2.3
								-1.9

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. @ 165+00S	Sight on 170+00S
		20 91			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	5 84	20 55	6 20	14 71		170+00 S.
170+00			3 16	17 39	CONTROL	LINE
			5 7	14 9		100° R.
			8 3	12 3		189° R. Bl.
T.P.	0 4	7 7	14 0	6 6		228° R.
			2 5	4 7	26°38'	251
			4 8	[illegible]	30°15'	292
			6 1	0 9	33°59'	337
			8 6	-1 6	41°43'	446
			[illegible]	-2 4	43°14'	470
6			11 0	-4 0	45°52'	515
7			12 7	-5 7	48°22'	563
8			13 9	-6 9	49°36'	588
9			15 5	-8 5	51°21'	625
10			17 0	-10 0	53°25'	674

Profile No. ____ Notes Red CWH Plotted CWH Job No. 2300.06 Division No. 10 F.B. 2801 Pg. 113
X-Sec. No. ____ Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date 9-5-59
Date 9-29-59 Date 10-5-59 Map No. ____ Index [illegible] Date [illegible]

F.B. 2801 Pg. 114

Job No. 030002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-9	1		7.09	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "	170+00 S	
170+00 S		10			" "		
		11			" "		
		12			" "	90°	
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		S.9
		19			" "		
		20			" "		

S.8

Profile Notes Red. CWH Plotted CWH Job No. 030020 Division No. 10 F. B. 2801 Pg. 115
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhlmann Notes Ellen Date 8-5-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. John

F. B. 2801 Pg. 116 | Job No. 030020 Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDY | Date 9-24-59 | Date 10-2-59 | No.

Survey by UHRHNIET | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-24-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
5-9	21			90° 00	
	22			" "	
	23			" "	
	24			" "	
	25			" "	
	26		7 13	" "	
170+005					

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

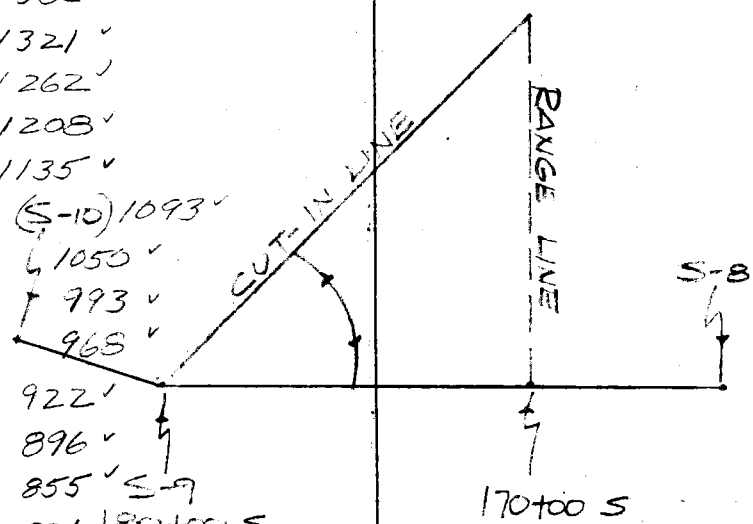
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
180+00 S	S-9	1	32.7	30.3	7 08	61° 29'	1841
		2	31.6	29.2		60° 24'	1760
		3	31.1	28.7		59° [illegible]	1672
		4	30.2	27.8		58° 06'	1606
		5	29.4	27.0		56° 42'	1522
		6	28.8	26.4		55° 28'	1453
		7	27.3	24.9		54° 07'	1382
		8	26.2	23.8		52° 53'	1321
		9	25.6	23.2		51° 37'	1262
		10	25.1	22.7		50° 23'	1208
		11	24.1	21.7		48° 37'	1135
		12	23.3	20.9		47° 32'	(S-10) 1093
		13	22.9	20.5		46° 24'	1050
		14	21.6	19.2		44° 48'	993
		15	20.7	18.3		44° 04'	968
		16	19.4	17.0		42° 40'	922
		17	18.6	16.2		41° 52'	896
		18	17.9	15.5		40° 32'	855
		19	17.1	14.7		39° 43'	831
		20	15.1	12.7		38° 10'	786

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.7
TIDE = -2.7
-2.4



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 Survey of PEACH EROSION STUDIES F. B. 2801 Pg. 117
X-Sec. No. ____ Notes Chkd. [illegible] Date 9-29-59 Checked [illegible] Date 10-5-59 Survey by CHAPPELL Notes [illegible] Date [illegible] Map No. ____ Indexed [illegible] Date [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 118 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 No. Profile
Survey by CHARLIE STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date 9-29-59 Date 10-5-59 No. X-Sec.

STATION Inst. At	Sight On	B. S. #	H. I. Rec	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
1804005	S-8	21	13.7	11.3		37° 05'	756	ADJUSTMENTS
		22	13.1	10.7		36° 13'	732	BOAT = +1.0
		23	12.4	10.0		35° 02'	702	ZERO = -0.7
		24	11.9	9.5		34° 24'	685	TIDE = -2.7
		25	11.3	8.9		32° 35'	639	-2.4
		26	10.8	8.4	7 12	32° 02'	626	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 @ 170+00	Sight on 165+00S
		20 55			DATUM MEAN LOWER LOW WATER	INSHORE
TP	5 27	20 6[illegible]	516	15 79		165+00S
S-8			337	17 29	BM. S-8 EL= 17.285 per RB. 2100-164	
S-8	3 2[illegible]	20 [illegible]		17.29		
165+00			325	17 29	CONT ROC	LINE
			68	[illegible]		100 R.
			90	11 [illegible]		127
TP	-03	70	18[illegible]	7 3		196
			18	5.2	22° 14'	204
			23	4.7	23° 43'	220
			48	2.2	27° 36'	261
			61	0.9	31° 08'	302
			75	-0.5	35° 02'	351
			90	-2.0	35° 30'	357
			92	-2.2	40° 05'	421
			111	-4.1	43° 13'	470
			140	-7.0	48° 52'	573
			158	-8.8	52° 37'	654
			170	-10.0	53 50	684

Profile No. X-Sec. No. Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0360-02 Division No. 10 Survey of Beach Erosion Studies Notes Chkd JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by Line Notes Line Date 8-5-59 Map No. Indexed C. Johnson

F.B. 2801 PG. 119

F. B. 2801 Pg. 120

Job No. 0700.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-208 CE 507 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	5-9	1		7 23	90 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		

165+00 5

165+00 5
Range line

Profile Notes Red. CWH Plotted CWH Job No. 0300.03 Division No. 10 F. B. 2801 Pg. 121

No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Studies

X-Sec. Notes Chkd. JSH Checked JSH Survey by Wharriet Notes Liden Date 8-5-59

No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 122 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Ciden Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
165 +00	5-9	21			90 00	
		22			" "	
		23			" "	
		24		7 27	" "	

76298 S & E #307—7-55

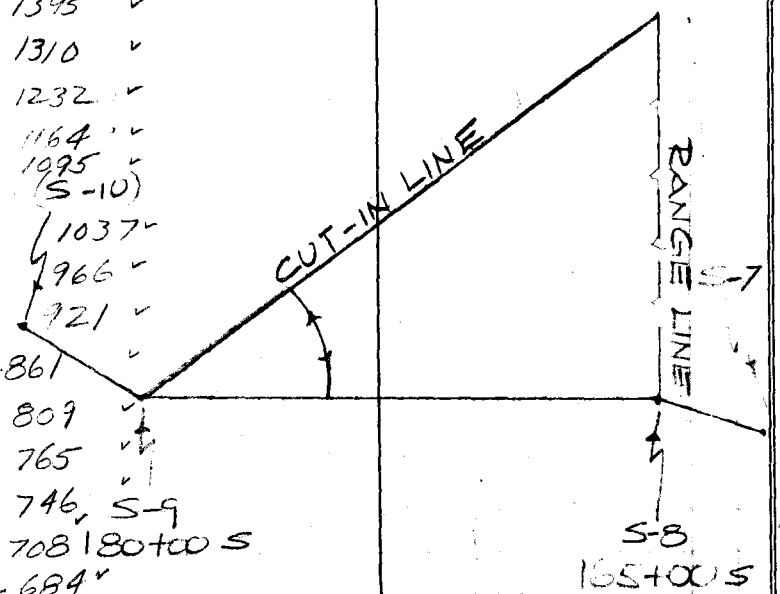
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S.	ELEV.	Time	Hor. Ang.		Remarks
		1	33.7	31.1			7 23	52° 40	1967	
		2	32.9	30.3				51° 12	1866	
		3	32.0	29.4				49° 30	1757	
		4	30.8	28.2				47° 47	1653	
		5	29.4	26.8				46° 11	1563	
		6	28.3	25.7				44° 22	1467	
		7	27.6	25.0				42° 52	1395	
180+00 S		9	26.3	23.7				41° 08	1310	
		10	25.3	22.7				39° 28	1232	
	S-8	10	24.6	22.0				37° 46	1164	
		11	23.8	21.2				36° 01	1095 (S-10)	
		12	22.8	20.2				34° 28	1037	
		13	21.2	18.6				32° 47	966	
		14	19.7	17.1				31° 32	921	
		15	18.2	15.6				29° 52	861	
		16	16.7	14.1				28° 25	809	
		17	15.7	13.1				27° 00	765	
		18	14.6	12.0				26° 25	746 S-9	
		19	13.3	10.7				25° 17	708 180+00 S	
		20	12.7	10.1				24° 32	684	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.6
TIDE = -3.0
-2.6



Profile
Notes Red. CWH Plotted CWH Job No. Division No.
No. Date 7-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by Notes L.L.S. Date 8-5-59
No. Date 8-28-59 Date 10-5-59 Map No. Indexed C. Tabor
F. B. Pg. 123

F. B. 2801 Pg. 124 Job No. 03002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by CHARRIET STRADER Notes Chkd. JSH Checked JSH
Indexed [redacted] Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
180+00S	5-8	21	12.2	9.6	22° 50'	663	ADJUSTMENTS
		22	11.6	9.0	22° 55'	635	BOAT = +1.0
		23	11.1	9.5	22° 04'	608	ZERO = -0.6
		24	—	7.26	21° 15'	584	TIDE = -3.0
							-2.6

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. @ 165+00S	Sight on 160+00S
		20 54			DATUM MEAN LOWER LOW WATER	INSHORE 160+00S
TP.	480	20 34	500	15 54		
			300	17 34	CONTROL	LINE
			67	13 [illegible]		100° R.
			88	11 [illegible]		163° R. BRK
TP.	15	95	123	8 0		184° R.
1			48	47	23°31'	218
2			72	23	26°49'	253
3			83	12	30°19'	292
4			93	02	33°33'	332
5			104	-09	37°30'	384
6			112	-17	39°44'	416
7			122	-27	43°01'	467
8			130	-35	45°30'	509
9			145	-50	46°55'	535
10			161	-66	48°59'	575
11			175	-80	50°55'	616

Profile No. X-Sec. No. Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 8800-06 Division No. 6 Survey of [illegible] Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-6-59 Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F.B. 2801 Pg. 123

F.B. 2801 Pg. 126

Job No. 6300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

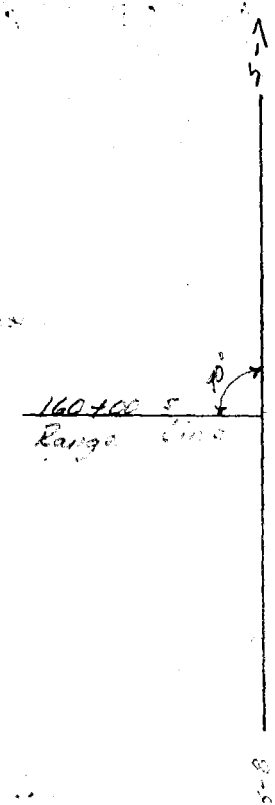
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	5-7	1		7 52	90 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		

160+00 5



Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 127
No. Date 9-24-59 Date 10-2-59 Survey of Roach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhaulet Notes Liden Date 8-5-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Tolan

F. B. 2801 Pg. 128 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 9-24-59 Date 10-2-59 No.

Survey by Uharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

160 + 00 5

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
5-7	21		7 56	90 00		

76298 S & E #307—7-55

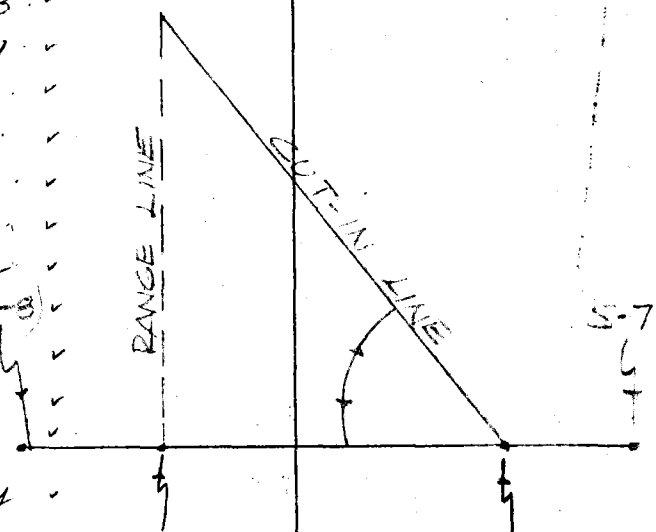
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
142+50 S	S-8	1	33.8	30.5	7 52	47° 35'	1916	
		2	32.3	29.0		45 40	1792	
		3	30.8	27.5		43° 49'	1680	
		4	29.6	26.3		41° 09'	1530	
		5	28.7	25.4		39° 29'	1442	
		6	27.8	24.5		37° 48'	1358	
		7	27.3	24.0		35° 40'	1251	
		8	26.3	23.0		34° 01'	1181	
		9	25.0	21.7		32° 12'	1103	
		10	23.8	20.5		30° 46'	1041	
		11	22.4	19.1		29° 42'	998	
		12	21.7	18.4		28° 35'	954	
		13	20.6	17.3		27° 22'	907 (S-8)	
		14	19.6	16.3		26° 50'	847	
		15	18.8	15.5		25° 11'	823	
		16	18.2	14.9		24° 12'	786	
		17	17.1	13.8		23° 50'	774	
		18	16.4	13.1				
		19	—					
		20	—			20° 50'	667	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.7
TIDE = -3.6
-3.3



Profile Notes Red. CWH Plotted CWH Job No. 0500.00 Division No. 10 F. B. 2801 Pg. 129
No. Date Date Date Survey of
X-Sec. Notes Chkd. JSH Checked JSH Survey by WARREN Notes K.L.S. Date 8-5-57
No. Date 8-29-57 Date 10-3-57 Map No. Initialed C. Johnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
		21	—	7 56	20° 02'		ADJUSTMENTS BOAT = +1.0 V ZERO = -0.7 V TIDE = -3.6 V -3.3 V
142+50S	5-8						

F. B. 2801 Pg. 130 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by CHARRIET Notes STRADER Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

DATUM Inst. @ 160+00S sight on 152+50S

MEAN LOWER LOW WATER

STATION	B. S.	H. I.	F. S.	ELEV.		
		20 24				INSHORE
T.P.	440	19 63	5 11	15 23		152+50 S.
T.P.	219	20 44	138	18 25		
152+50			54	15 0	CONTROL	LINE
			00	20 4	49° L.	
			+55	25 9	110° L. @ EDGE	LONG WALK
			90	11 4		86° R. BRK
			82	12 2		142° R. T. BRK
T.P.	-02	78	12 4	8 0		163 R.
			31	4 7	1) 13° 02'	173
			58	2 0	2) 16° 43'	225
			76	0 2	3) 20° 20'	278
			86	-0.8	4) 23° 12'	322
			10 4	-2 6	5) 28° 50'	413
			11 0	-3 2	6) 30° 09'	436
			11 6	-3 8	7) 32° 04'	470
			12 7	-4 9	8) 33° 46'	502
			14 4	-6 6	9) 35° 46'	540
			15 4	-7 6	10 37° 27'	575
			17 0	-9 2	11) 39° 32'	619

Profile No. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10 F.B. 2801 Pg. 131
Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by ____ Notes [illegible] Date [illegible]
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed ____ Date ____

F.B. 2801 Pg. 132

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-296 CE 307 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.		
[illegible]	5 04	22 35		17.[illegible]	5-8 [illegible] 17.[illegible]	1 AS HOKE
T.P.	5 14	22 45	5 04	17 31	PER F.B. 2100 - 164	152 + 50S
T.P.	3 42	20 6[illegible]	5 22	17 23		
152+50			60	14 7	CONTROL	LINE
			54	20 3	49 [illegible]	
			[illegible] 8	25 5	[illegible]	
			44	[illegible] 3		96° [illegible]
			93	[illegible]		[illegible]
			1[illegible]	8 5		163 [illegible]

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 Survey of [illegible] Notes LIND Date 8-[illegible]
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by C.E. LIND Map No. ____ Indexed C. Johnson Date ____

F. B. 2801 Pg. 133

F. B. 2801 Pg. 134 0300.02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by C.E. LIND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
5-7	1		8 10	90 00		2-5
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "	152+50 S	90°
	10			" "	Range Line	
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		8-5
	19			" "		
	20			" "		

152+50 S

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 135
No. Date 9-24-59 Date 10-1-59 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Wharriet Notes Lidea Date 8-5-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C Job Date

F. B. 2801 PG. 136 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Uhgerriet Notes Liden Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

152+50S

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	# Depth Rec. Adj.	Time	Hor. Ang.			Remarks
5-7	21	8 13	90 00			

76298 S & E #307—7-55

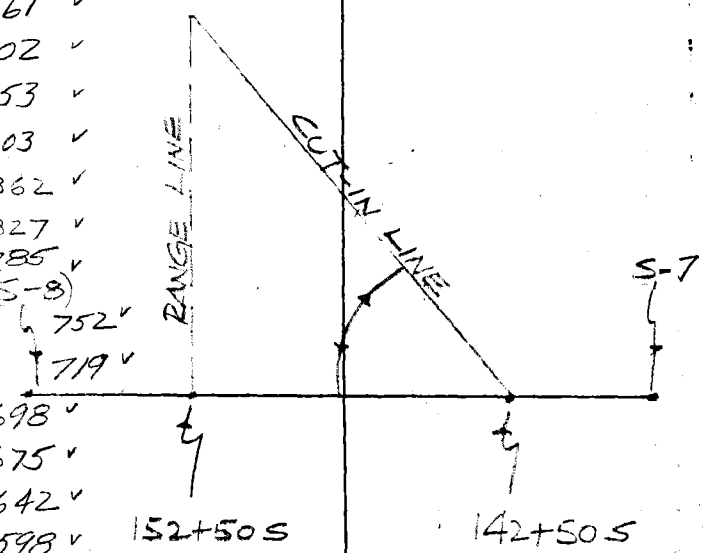
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.		
nst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	30.4	26.8	8 09	57° 20'	1560 ✓	
		2	29.2	25.6		55° 10'	1437 ✓	
		3	27.9	24.3		52° 46'	1316 ✓	
		4	26.7	23.1		51° 30'	1257 ✓	
		5	25.7	22.1		49° 43'	1180 ✓	
		6	24.8	21.2		48° 57'	1115 ✓	
		7	24.0	20.4		46° 42'	1061 ✓	
		8	23.0	19.4		45° 03'	1002 ✓	
		9	22.1	18.5		43° 38'	953 ✓	
		10	21.3	17.7		42° 04'	903 ✓	
142+50S	S-8	11	20.7	17.1		40° 46'	862 ✓	
		12	19.3	15.7		39° 36'	827 ✓	
		13	18.0	14.4		38° 01'	785 ✓	
		14	16.8	13.2		36° 57'	752 ✓	
		15	15.9	12.3		35° 42'	719 ✓	
		16	15.3	11.7		34° 55'	698 ✓	
		17	14.4	10.8		34° 02'	675 ✓	
		18	13.8	10.2		32° 42'	642 ✓	
		19	13.3	9.7		30° 53'	598 ✓	
		20	—			29° 40'	570 ✓	

ADJUSTMENTS
BOAT = +1.0 ✓
ZERO = -0.7 ✓
TIDE = -3.9 ✓
-3.6 ✓



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 137
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey of Survey by CHAPPIFT Notes R.L.S. Date 8-5-59
Map No. ____ Indexed C. John Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
		21		8 12	28° 41'		
142+50S	5-8						

ADJUSTMENTS
BOAT = +1.6 ✓
ZERO = -0.7 ✓
TIDE = -3.9 ✓
-3.6 ✓

F. B. 2801 Pg. 138 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by UNARRIET Notes STRADER Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. @ 142+50S	Sight on 147+50
		[illegible]			DATUM MEAN LOWER LOW WATER	INSHORE 147+50S
T.P.	459	20 87	4 12	12 28		
147+50			48	14 1	Control	Line
			00	20 9	55° L.	
			+80	28 9	119° L.	
			81	12 8		100 R.
			83	12 6		133 R. Top Bar
— T.P.	0 2	9 9	11 2	9 7		147 R.
1			5 2	4 7	20°06'	183
2			7 8	2 1	23°55'	222
3			9 7	0 2	27°56'	265
4			10 0	-0 1	29°36'	284
5			11 7	-1 8	37°52'	389
6			12 7	-2 8	39°05'	406
7			13 2	-3 3	41°09'	437
8			14 2	-4 3	42°44'	462
9			15 5	-5 6	45°02'	501
10			16 5	-6 6	46°23'	525

Profile Notes Red. SWH Plotted SWH Job No. 03-00 02 Division No. 10 F. B. 2801 Pg. 139
No. Date 9-24-59 Date 10-2-59 Survey of
X-Sec. Notes Chkd. JSH Checked JSH Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 140 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LINO Notes LINO & ENGLISH Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

F. B. 2801 Pg. 141

Profile No.	Notes Red. CWH	Plotted CWH	Job No. 6300.02	Division No. 6	
	Date 9-24-59	Date 10-2-59	Survey of [illegible]		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by [illegible]	Notes [illegible]	Date 8-17-59
	Date 9-29-59	Date 10-5-59	Map No.	Indexed C. Jonnes	Date

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.		
					DATUM MEAN LOWER LOW WATER	INSHORE 1474 SOS

76L-298 S & E #307—1-56

F. B. 2801 Pg. 142 Job No. 030002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76L-298 S & E #307—1-56

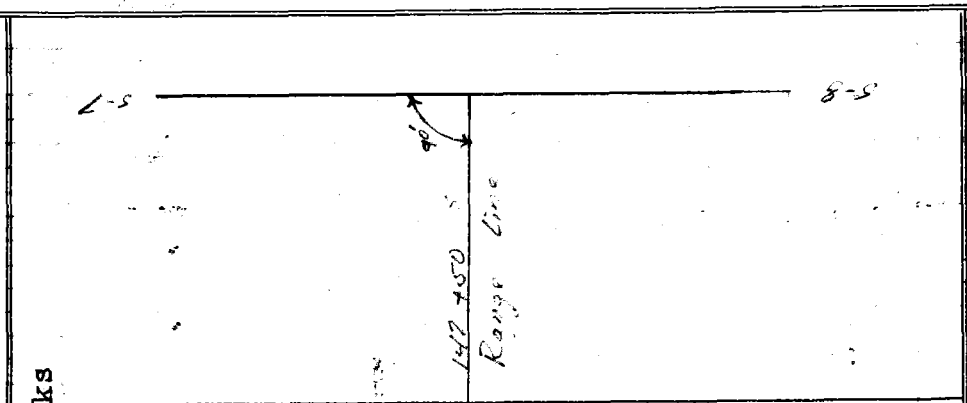
Profile No.	Notes Red. CWH	Plotted CWH	Job No. 0300.02	Division No. 10	F. B. 2801 Pg. 143
	Date 9-24-59	Date 10-2-59	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Uhanint	Notes [illegible]	Date [illegible]
	Date 9-29-59	Date 10-5-59	Map No.	Indexed C. Jeanette	

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 On 5-7	# Rec. Adj. Depth		Time Hor. Ang. 8 35	90 00	
	1			" "	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



147+50S

76298 S & E #307—7-55

F. B. 2801 Pg. 144 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Uharriet Notes Liden Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

147+50S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		Depth # Rec. Adj.	Time	Hor. Ang.		Remarks
5-7	21		8 38	90 90		

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

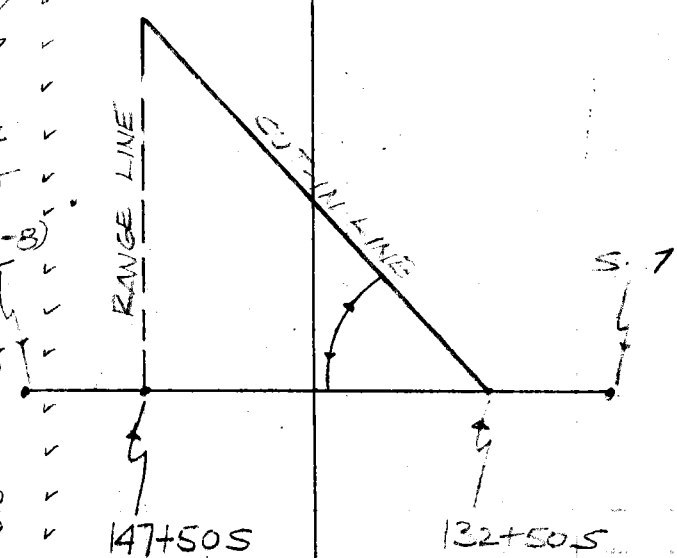
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
132+50S	S-8	1	31.3	27.3	834	47° 26	1634	ADJUSTMENTS
		2	30.0	26.0		45° 26	1523	BOAT = +1.0
		3	29.2	25.2		43° 28	1422	ZERO = -0.8
		4	28.2	24.2		41° 46	1340	TIDE = -4.2
		5	26.9	22.9		39° 54	1254	-4.0
		6	26.1	22.1		38° 04	1175	
		7	25.3	21.3		36° 10	1097	
		8	24.1	20.1		34° 09	1017	
		9	22.8	18.8		32° 47	966	
		10	21.6	17.6		31° 20	914	
		11	20.8	16.8		29° 42	855	
		12	19.9	15.9		28° 21	810 (S-8)	
		13	18.8	14.8		26° 42	755	
		14	17.7	13.7		25° 31	716	
		15	16.3	12.3		24° 35	686	
		16	15.4	11.4		23° 43	659	
		17	14.3	10.3		22° 24	618	
		18	13.6	9.6		21° 48	600	
		19	12.0	8.0		20° 45	569	
		20	11.2	7.2		19° 43	537	



Profile Notes Red. CWH Plotted CWH Job No. 0200.04 Division No. 10 F. B. 2801 Pg. 145
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by CHARRIFT Notes P.I.S. Date 8-5-59
No. Date 9-29-59 Date 10-5-59 Map No. Index [illegible]

F. B. 2801 Pg. 146 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by UHARRIET Notes STRADER Notes Chkd. Checked X-Sec.

Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	S. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	Depth # Rec. Adj.		Time Hor. Ang.			Remarks
132+50 S						
5-8						
	21	-	8 38	18 54		

ADJUSTMENTS

BOAT = +1.0 ✓

ZERO = -0.8 ✓

TIDE = -4.2 ✓

-4.0 ✓

Notes Ck'd by	Survey of
Map No.	JN Tape Sht of
Office Work CWH	Surveyed by
Checked JSH	Notes Date
Date 9-2-59	Indexed

F. B. Pg.

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

F. B. 2801 Pg. 147A

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by CWH	Survey of Beach Erosion Study
Map No.	JN0300-06 Tape Stn. °F
Office Work	Surveyed by UHarriet
Checked	Notes Eller Date 8-6-59
Date 9-2-59	Indexed C. Johnson 8-28-59

F. B. 2891 PG. 147

8-6-59

~~3.0~~ 2.8 on Datum Line of tide Gauge **SANTA MONICA**

Gauge Time (P.S.T) — 12:06

Watch Time (P.S.T) — 12:05

Standard Time	Gauge Reading	
5:00 AM	~~+0.5~~	+0.3
5:30	~~+0.8~~	+0.6
6:00	~~+1.1~~	+0.9
6:30	~~+1.7~~	+1.5
7:00	~~+2.3~~	+2.1
7:30	~~+2.7~~	+2.5
8:00	~~+3.4~~	+3.2
8:30	~~+3.9~~	+3.7
9:00	~~+4.4~~	+4.2
9:30	~~+4.7~~	+4.5
10:00	~~+4.9~~	+4.7
10:30	~~+5.0~~	+4.8
11:00	~~+4.9~~	+4.7

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247—7-53

F. B. 2801 PG. 148

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. @ 137+50S	Sight on 142+50S
		20 37			DATUM MEAN LOWER LOW WATER	INSHORE 142+50S
TP	4 65	20 84	4 68	16 17		
142+50			47	16	Control	Line
			29	17 9	43° L. BRK	
			+77	30 5	10' L. TOP BRK	
			85	12 3		100 R.
			83	12 5		132 R. TOP BR
TP	-02	9 9	10 7	10 1		142 R.
			52	4 7	1) 19°56'	181
			81	1 8	2) 23°05'	213
			10 5	-0 6	3) 29°34'	284
			12 4	-2 5	4) 35°05'	406
			16 8	-6 9	5) 39°30'	412

Profile No. X-Sec. No.
Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. 10 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by [illegible] Map No. Notes Indexed C. Johnson Date
F. B. [illegible] Pg. 149

F. B. 2801 Pg. 150

Job No. 0700.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.		
					DATUM MEAN LOWER LOW WATER	INSHORE 142 +50S
		20	[illegible]	[illegible]		
			40	12 2		
			2	7	[illegible]	
			+100	30 2		
			80	12 2		100 [illegible]
			76	12 2		132 [illegible] Top [illegible]
			98	10 4		142 [illegible]
			[illegible]	9 2		[illegible]

Profile Notes Red CWH Plotted CWH Job No. Division No. 10 F. B. 2801 Pg. 157
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 152 | 030002

Job No. _____ Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date 8-17-59 Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

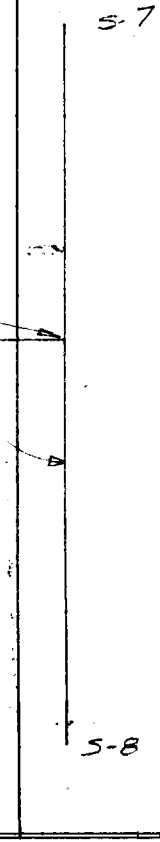
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
	S-8	1			6:32	90° 00	
		2				" "	
		3				" "	
		4				" "	
		5				" "	
		6				" "	
		7				" "	
		8				" "	
142+505 S		9				" "	142+505 S
		10				" "	
		11				" "	90°
		12				" "	
		13				" "	
		14				" "	
		15				" "	
		16				" "	
		17				" "	
		18				" "	
		19				" "	
		20			6:36	" "	



Profile Notes Red. CWH Plotted CWH Job No. 0300-02 Division No. 10 F. B. 2801 Pg. 153
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Notes Elev. Date 9-6-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 154 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

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

Remarks

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

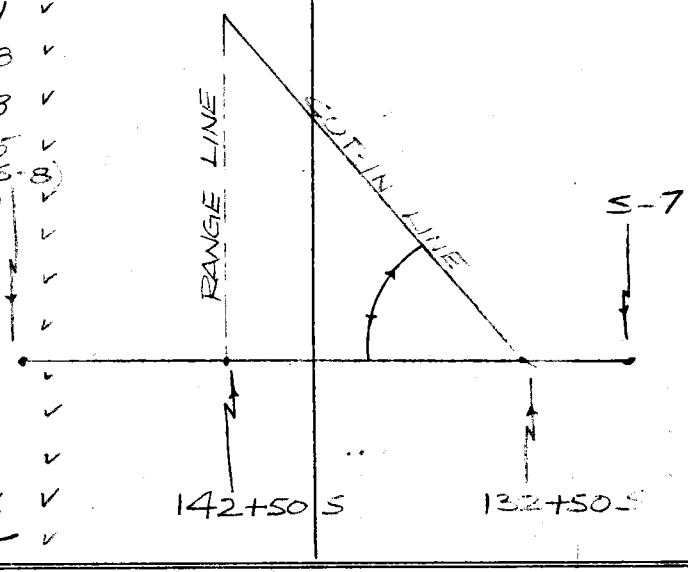
Do not extend notes this side of this line.

Profile No. ____ Notes Red. CWH Date 9-29-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 1/55
X-Sec. No. ____ Notes Chkd. [illegible] Date 9-29-59 Checked [illegible] Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by [illegible] Notes [illegible] Date [illegible] Map No. ____ Index [illegible]

STATION Inst. At	Sight On	#	B. S. Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		
132+50 S	S-8	1	29.0	28.3	6 32	59° 02'	1667	
		2	28.1	27.4		56° 47'	1527	
		3	26.8	26.1		54° 51'	1420	
		4	25.7	25.0		53° 04'	1330	
		5	24.6	23.9		51° 02'	1236	
		6	23.4	22.7		49° 04'	1153	
		7	21.7	21.0		46° 30'	1054	
		8	20.8	20.1		44° 27'	981	
		9	19.8	19.1		43° 10'	938	
		10	18.8	18.1		41° 46'	893	
		11	17.7	17.0		40° 51'	865	
		12	16.8	16.1		39° 16'	818	
		13	16.1	15.4		38° 2[illegible]	793	
		14	15.3	14.6		36° 2[illegible]	753	
		15	14.4	13.7		35° [illegible]	728	
		16	13.3	12.6		34° 30'	696	
		17	12.2	11.5		34° 0[illegible]	676	
		18	—			32° 2[illegible]	649	
		19	—			31° 38'	616	
		20	—		6 36	30° 44'	595	

Remarks

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.3
TIDE = -1.4
-0.7



F. B. 2801 Pg. 156 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by CHARRIET Notes STRADER Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

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

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by		Survey of	
Map No.		IN	Tape Std °F
Office Work	CWH	Surveyed by	
Checked	JSH	Notes	Date
Date	9-2-59	Indexed	

F. B. _____ PG. _____

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

763095 CE #247—7-53

F. B. 2801 PG. 157A

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by OWH	Survey of Beach Erosion Study
Map No.	JN0302.02 Tape Std. °F
Office Work	Surveyed by UHarriet
Checked	Notes Eller Date 8-17-59
Date 9-2-59	Indexed A. C. Johnson 8-28-59

F. B. 2801 Pg. 157

8-17-59

~~30~~ 2.8 on Datum Line of Tide Gauge SANTA MONICA

Gauge Time (P.S.t) - 11:47

Watch Time (P.S.t) - 11:50

Standard Time	Gauge Reading
6:00 A.M.	~~+3.2~~ +3.0
6:30	~~+3.8~~ +3.6
7:00	~~+4.4~~ +4.2
7:30	~~+4.8~~ +4.6
8:00	~~+4.9~~ +4.7
8:30	~~+5.0~~ +4.8
9:00	~~+5.0~~ +4.8
9:30	~~+4.8~~ +4.6
10:00	~~+4.6~~ +4.4
10:30	~~+4.2~~ +4.0
11:00	~~+3.8~~ +3.6

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76309S CE #247—7-59

F. B. 2801 PG. 158

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 132+50	"Sight on" 137+50
		[illegible]			DATUM MEAN LOWER LOW WATER	IN SHORE
TH	[illegible]	20 [illegible]	[illegible]	[illegible]		137+50S
137+50			5 3	14 7	[illegible]	[illegible]
			3 [illegible]	[illegible]	[illegible] L. BRK	
			+8 5	25 7	[illegible] L. TOP BRK	
			8 1	12 1		100° R.
			7 9	12 3		[illegible] R. [illegible]
[illegible] — TH	1 1	11 1	10 2	10 0		149°
			6 4	4 7	21° 11'	194
			9 8	1 3	26 09	245
			10 6	0 5	29 29	283
			12 2	-1 1	33 20	329
			12 6	-1 5	36 00	363
			13 2	-2 1	38 03	391
			13 7	-2 6	39 54	418
			14 9	-3 8	42 06	452
			15 7	-4 6	42 55	465
			16 4	-5 3	44 55	499
			17 9	-6 8	46 10	521

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. 10 Survey of [illegible] Studies

X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by ____ Notes ____ Date ____ Map No. ____ Indexed C. Johns Date ____

F. B. 2801 Pg. 159

F. B. 2801 Pg. 160 Job No. 0700.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-296 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
S-8	1		51	90° 00		S-7
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "	137+50 S	
	10			" "		
	11			" "	90°	
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		S-8
	19			" "		
	20			" "		

137+50 S

Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 161
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Wharriet Notes Ellen Date 9-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 162 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No. | X-Sec.

Survey by Harriet | Notes Ellen | Notes Chkd. JSH | Checked JSH

Indexed K. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

1374505

5-8

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Depth Rec. Adj.		Time Hor. Ang.		
	21			90° 00	
	22			"	
	23			"	
	24		6 54	"	

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

76298 S & E #307—7-55

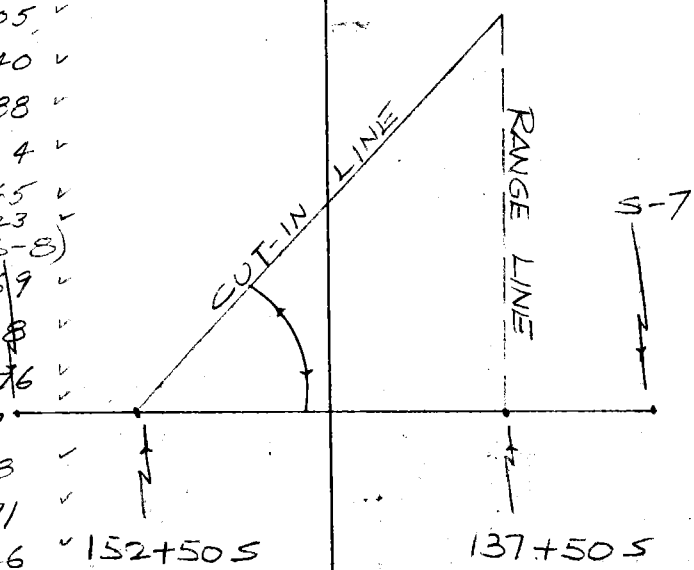
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 No. ____ X-Sec. No. ____ Notes Red. CWH Date 9-24-59 Notes Chkd. JSH Date 9-29-59 Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59 Job No. 8300.02 Survey of BEACH EROSION STUDIES Survey by DIAGRAM Notes Map No. ____ Division No. 10 Index ____ F. B. 1291 Date 8-17-59 Pg. 163

STATION	S. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
152+50 S. / S-7	1	30.2 / 27.1	6 50	47° 07'	1616	ADJUSTMENTS
	2	29.8 / 26.7		45° 48'	1542	EDAT = +1.0
	3	28.9 / 25.8		44° 00'	1449	ZERO = 0.0
	4	28.5 / 25.4		42° 40'	1383	TIDE = -4.1
	5	27.7 / 24.6		41° 21'	1320	-3.1
	6	27.2 / 24.1		40° 10'	1266	
	7	26.4 / 23.3		[illegible]	1205	
	8	25.8 / 22.7		[illegible]	1140	
	9	24.9 / 21.8		[illegible]	1088	
	10	23.9 / 20.8		[illegible]	1014	
	11	22.9 / 19.8		[illegible]	965	
	12	22.0 / 19.9		[illegible]	9,23 (S-8)	
	13	20.5 / 17.4		[illegible]	869	
	14	19.3 / 16.2		[illegible]	818	
	15	18.3 / 15.2		[illegible]	776	
	16	17.4 / 14.3		26° 29'	747	
	17	16.2 / 13.1		[illegible]	708	
	18	15.2 / 12.1		[illegible]	671	
	19	13.7 / 10.6		[illegible]	626	152+50 S
	20	12.2 / 9.1		[illegible]	584	



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 164 Job No. 0300.03 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by O'HARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-24-59 Date 10-5-59 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
152+505	S-7	21	11.3	8.2	20° 16'	554	ADJUSTMENTS
		22	10.0	6.9	19° 20'	527	BOAT = +1.0
		23	8.3	5.2	18° 05'	491	ZERO = 0.0
		24	7.4	4.3	6 54 16° 50'	455	TIDE = -4.1
							-3.1

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	+B. S.	H. I.	−F. S.	ELEV.	Inst. at 137+50	Sight on 132+50
		20 20			DATUM MEAN LOWER LOW WATER	INSHORE 132+50S
T.P.	378	20 98	[illegible]	17 20		
[illegible]			50	16 0	Control	Line
			[illegible]	17 7	[illegible]	
			+81	29 1	[illegible]	
			[illegible]	[illegible]		100 [illegible]
			[illegible]	[illegible]		[illegible]
[illegible]	12	10 4	[illegible]	[illegible]		[illegible]
			57	4 7	22° 26'	206
			96	0 8	27 57	265
			106	−0 2	32 29	318
			116	−1 2	36 03	364
			124	−2 0	38 50	402
			130	−2 6	40 38	429
			142	−3 8	43 07	468
			151	−4 7	44 38	494
			158	−5 4	45 56	517

Profile Notes Red. CWH Plotted CWH Job No. Division No. [illegible]
No. Date 9-24-59 Date 10-2-59 Survey of [illegible] STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 PG. 165

F. B. 2801 Pg. 166 | 0300102

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by SKLUND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-8	1		7 06	90° 00		
		2			" "		S-7
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "	132+50.5	
132+50.5		10			" "		
		11			" "		
		12			" "	90°	
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18		7 08	" "		S-8

Profile Notes Red. CWH Plotted CWH Job No. 0400.02 Division No. 10 F. B. 2801 Pg. 167
No. Date 9-24-59 Date 10-2-59 Survey of Bevich Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhlaniel Notes Chkd. Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Jon Date

F. B. 2801 Pg. 168 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Uharriet Notes Eller Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

7629B S & E #307—7.55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.	Remarks
Inst. Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	

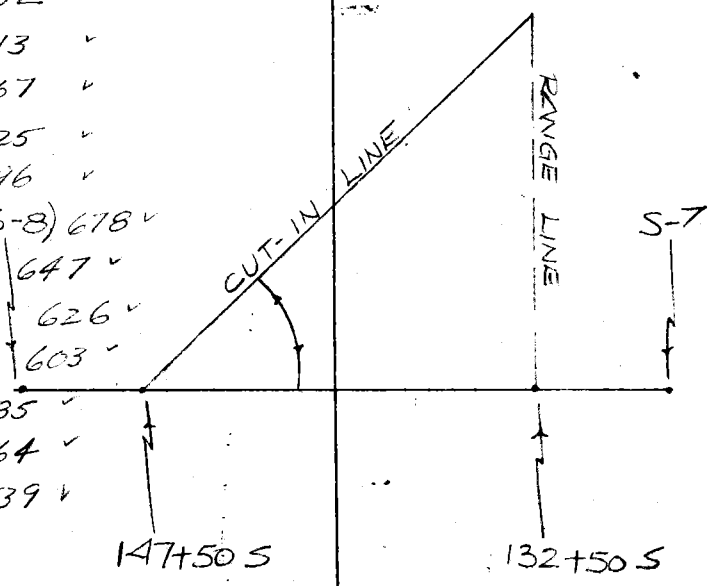
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	1	27.2 / 23.8	7 05	40° 41'	1269	ADJUSTMENTS
	2	26.5 / 23.1		38° 06'	1176	BOAT = +1.0
	3	25.7 / 22.3		35° 51'	1085	ZERO = -0.1
	4	24.8 / 21.4		34° 19'	1025	TIDE = -4.3
	5	24.1 / 20.7		32° 26'	953	-3.4
	6	23.0 / 19.6		30° 50'	896	
	7	21.4 / 18.0		29° 37'	852	
	8	19.7 / 16.3		28° 28'	813	
147+50 S / S-7	9	18.3 / 14.9		27° 04'	767	
	10	17.3 / 13.9		25° 47'	725	
	11	16.3 / 12.9		24° 54'	696	
	12	15.6 / 12.2		24° 20'	(S-8) 678	
	13	14.9 / 11.5		23° 19'	647	
	14	14.1 / 10.7		22° 39'	626	
	15	13.2 / 9.8		21° 55'	603	
	16	12.3 / 8.9		21° 17'	585	
	17	11.3 / 7.9		20° 35'	564	
	18	10.1 / 6.7	7 07	19° 46'	539	



Profile Notes Red. CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2801 Pg. 169
No. Date Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by UHRRE & Notes K. L. S. Date 8-11-59
No. Date Date Date Map No. Index C. J. Date

F. B. 2801 Pg. 170 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at S-6	Sight on 127+50
		[illegible]			DATUM MEAN LOWER LOW WATER	INSHORE 127+50S
T.P.	[illegible]	[illegible]	454	[illegible]		
S-6			3 65	24 25	S-6 EL = 24.217, FB. 2100-16	
S-6	3 65	27 87		24 22	S-6	
T.P.	8 79	26 14	10 52	17 35		
127+50			12	24 9	Control	Line
			+0.5	26 6	16° L. Bot. Brk	
			18	24 3	20° L. T. Brk	
			82	17 9	52° L.	
			110	15 1	100° L.	
			140	12 1	200° L.	
			140	12 1	244° L. T. Brk	
[illegible] T.P.	1 2	10 5	168	9 3	260	
			5 8	4 7	56° 27' 289	
			9 8	0 7	60 43 342	
			12 4	-1 9	63 39 387	
			12 8	-2 3	66 01 431	
			12 9	-2 4	67 43 467	
			12 9	-2 4	69 08 503	
			13 8	-3 3	69 38 516	
			15 5	-5 0	70 34 543	

Profile Notes Red. CWH Plotted CWH Job No. Division No. 10 F. S. 2801 Pg. 171
No. Date 9-24-59 Date 10-5-59 Survey of [illegible]
X-Sec. Notes Chkd. JSH Checked JSH Survey by C.K. LIND Notes LIND Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Joh Date

F. B. 2801 Pg. 172 | 0300-02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by C.K. LIND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

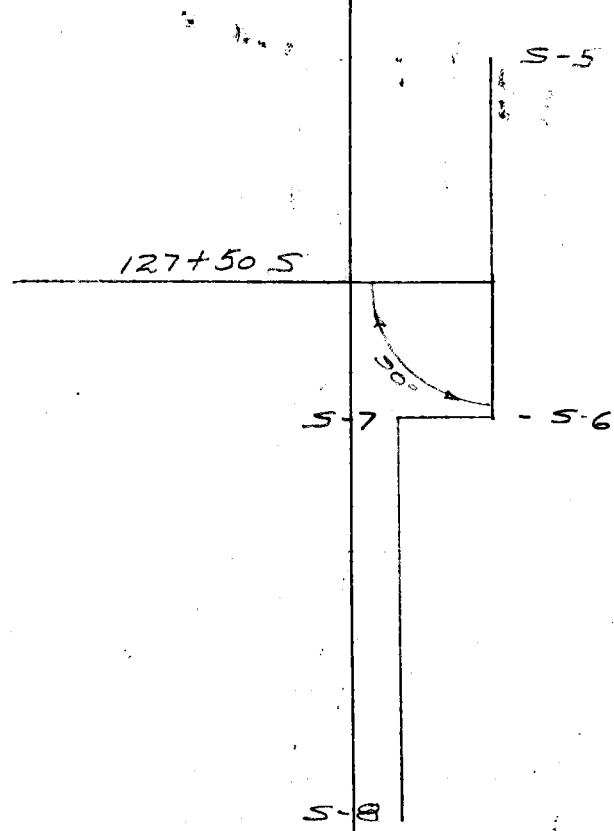
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	Remarks
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	
S-6	1		7 21	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20				

127+50 S



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 030007 Division No. 10 F. B. 2801 Pg. 173
Date 9-24-59 Date 10-[illegible]-59 Survey of Bonds Ferry Study
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by UHarriet Notes Ellen Date 8-17-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	5-6	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25		7 25	" "		
127+50 S							

F. B. 2801 Pg. 174 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by Uhlmet Notes Ellet Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

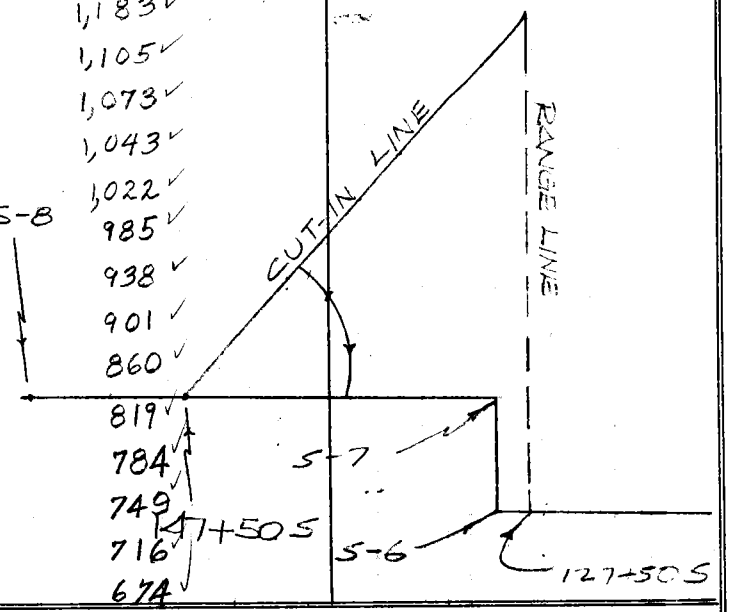
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
147+50 S.	S-7	1	—		7 21	39° 13'	
		2	—			37° 30'	
		3	28.4	24.7		34° 27'	1,400
		4	27.3	23.6		33° 11'	1,340
		5	26.7	23.0		32° 01'	1,287
		6	25.9	22.2		30° 41'	1,226
		7	25.3	21.6		29° 42'	1,183
		8	25.3	21.6		27° 55'	1,105
		9	25.2	21.5		27° 11'	1,073
		10	24.7	21.0		26° 28'	1,043
		11	23.6	19.9		25° 55'	1,022
		12	22.5	18.8		25° 01'	985
		13	21.1	17.4		23° 51'	938
		14	19.4	15.7		22° 54'	901
		15	18.0	14.3		21° 52'	860
		16	16.9	13.2		20° 49'	819
		17	15.8	12.1		19° 55'	784
		18	14.9	11.2		19° 00'	749
		19	13.7	10.0		18° 07'	716
		20	12.5	8.8		17° 00'	674

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.2
TIDE = -4.5
-3.7



Profile No. ____ Date ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 175
X-Sec. No. ____ Date ____ Notes Chkd. JSH Checked JSH Survey of BENCH ERCION STUDIES Survey by OHARRIE Notes R.L.S. Date 8-17-59
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 176 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
1474505	5-7	21	10.9	7.2		15°56'	634		ADJUSTMENTS
		22	9.5	5.8		15° 10'	607		BOAT = +1.0
		23	8.5	4.8					ZERO = -0.2
		24	7.9	3.4					TIDE = -4.5
		25	6.9	3.2	7 25	13°02'	530		-3.7

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 117+50	Sight on 122+50
		26 14			DATUM MEAN LOWER LOW WATER	INSHORE 122+50 S
T.P.	6 8	31 12	104	25 10		
T.P.	207	28 46	479	26 39	NEAR PIER	
			22	26 31		CONTROL LINE
			22	26 3	18± L.	
			18	26 7		23°
			12°	16 5		63°
T.P.	388	20 05	1229	16 17		
			50	15 6		100° R.
			71	12 9		200° R.
			78	12 2		250° R. T. B.
			95	10 5		259° [illegible]
T.P.	1 0	9 8	112	8 8		328°
			51	47	31° 34'	307
			95	03	36 45	373
			118	-20	40 05	421
			107	-09	43 07	468
			115	-17	45 51	515
			132	-34	48 49	572
			149	-51	51 39	632
			167	-69	53 23	673

Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. 16 F. B. 2801 Pg. 177
No. Date 9-24-59 Date 10-2-59 Survey of [illegible] Ensign Studies
X-Sec. Notes Chkd JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 9-29-59 Date 10-5-59 Map No. Inspector C. Johnson Date

F. B. 2801 Pg. 178 Job No. 030002 Division No. 10 Notes Red ____ Plotted ____ Profile

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

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

Indexed ____ Date ____ Date ____ Date ____ No. ____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

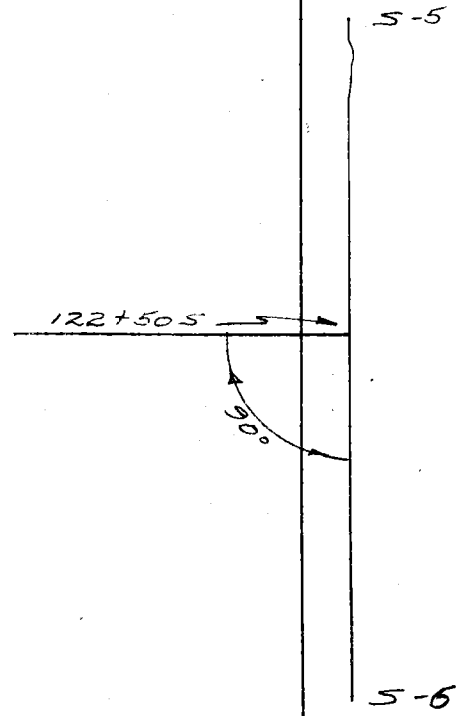
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-6	1		8:02	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



Profile Notes Red. CWH Plotted CWH Job No. 630002 Division No. 10 F. B. 2801 Pg. 179
No. Date 9-29-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes Ellen Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jones Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 180 Job No. 83002 Division No. 10 Notes Red. CWH Plotted CWH
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No. Profile
Survey by Wharrie Notes Eller Notes Chkd. JSH Checked JSH X-Sec.
Indexed L. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
	5-6	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25		8:06	" "		
122 + 50.5							

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
107+50 S.	S-6	1	32.5	28.1	8 02	51° 08'	1862	
		2	32.2	27.8		49° 54'	1782	
		3	31.3	26.9		48° 22'	1688	
		4	30.4	26.0		46° 47'	1596	
		5	29.5	25.1		45° 01'	1502	
		6	28.6	24.2		43° 14'	1410	
		7	27.6	23.2		40° 42'	1290	
		8	26.8	22.4		39° 38'	1242	
		9	25.8	21.1		36° 38'	1116	
		10	24.6	19.9		35° 19'	1062 (S-6)	
		11	23.7	19.0		34° 02'	1013	
		12	22.7	18.0		32° 57'	972	
		13	21.6	16.9		31° 52'	933	
		14	20.2	15.5		30° 39'	890	
		15	19.1	14.4		29° 31'	849	
		16	17.3	12.6		28° 02'	798	
		17	15.8	11.1		26° 48'	758	
		18	14.4	9.7		25° 30'	716	
		19	12.4	7.7		24° 26'	681	
		20	11.4	6.7		23° 39'	657	

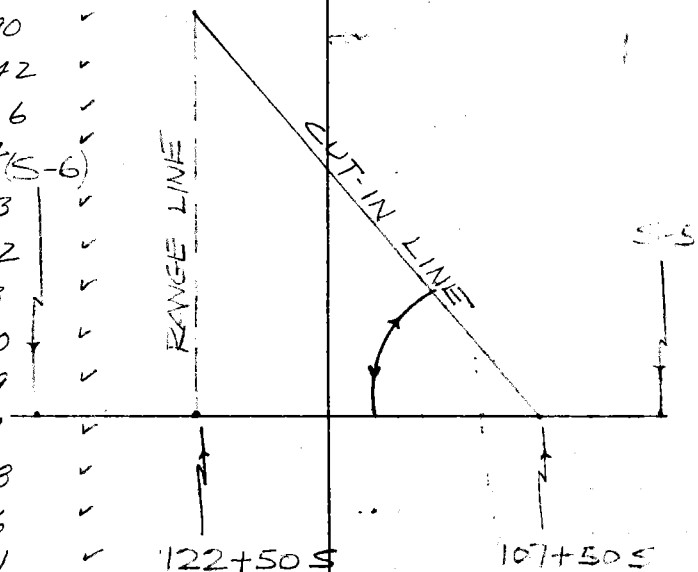
ADJUSTMENTS

BOAT = +1.0

ZERO = -0.6 (shots 1 to 8), -0.9 (shots 9 to 20)

TIDE = -4.8

(shots 1 to 8) -4.4 (shots 9 to 20) -4.7



Profile Notes Red. CWH Plotted CWH Job No. 2300.02 Division No. 10 F. B. 2801 Pg. 181
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by CHAPPIETT Notes R.L.S. Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Index [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
107+50S	S-6	21	10.2	5.4		22° 34	624 ✓	ADJUSTMENTS
		22	9.5	4.7		21° 44	599 ✓	BOAT = +1.0 ✓
		23	8.5	3.7		20° 25	558 ✓	ZERO = -1.0 ✓ (Shots 21 to 25)
		24	7.8	3.0		20° 05	549 ✓	TIDE = -4.8 ✓
		25	7.1	2.3	8 00	19° 00	516 ✓	-4.8 ✓

F. B. 2801 Pg. 182 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 112+50	Sight on 117+50
		20 05			DATUM MEAN LOWER LOW WATER	INSHORE 117+50S
-17	367	21 29	243	17 62		
			+74	287	CONTROL	LINE
			+74	287	10° L. [illegible]	
			+32	245		31° [illegible]
			33	180		55° " [illegible]
			54	759		100 R.
			87	126		R.
			54	129		235 [illegible]
			97	112		240
1½" [illegible] FOR [illegible] PARTY ONLY	10	9 4	129	84		264
			4 7	4 7	30° 36'	296
			8 8	0 6	36 03	364
			10 0	-0 6	39 28	412
			11 0	-1 6	42 20	455
			11 9	-2 5	45 55	516
			13 3	-3 9	48 19	562
			15 0	-5 6	50 17	602
			17 2	-7 8	52 00	640

Profile No. X-Sec. No. Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. [illegible] Survey of [illegible] Survey by [illegible] Notes [illegible] Date [illegible]
Notes Chkd. [illegible] Date 9-29-59 Checked [illegible] Date 10-5-59 Map No. Indexed C. John Date

F. B. 2801 Pg. 183

F. B. 2801 Pg. 184 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-208 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
	5-6	1		8:16	90° 00		
		2			" "		5-5
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "	117+505 5	
5		10			" "		
		11			" "	90°	
117+711		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		5-6
		19			" "		
		20			" "		

Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 12 F. B. 28-01 Pg. 165
No. Date 9-24-59 Date 10-2-59 Survey of Bench Erosion Study
X-Sec. Notes Chkd. [illegible] Checked JSH Survey by [illegible] Notes EMH Date 9-17-59
No. Date 9-29-59 Date 10-3-59 Map No. Inspector C. Johnson

F. B. 2801 Pg. 186 Job No. 030002 Division No. _____ Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No. _____

Survey by Uharriet Notes Ellen Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date _____ Date 9-29-59 Date 10-5-59 No. _____

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
117+50S	21			90° 00		
5-6	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27		8:20	" "		

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

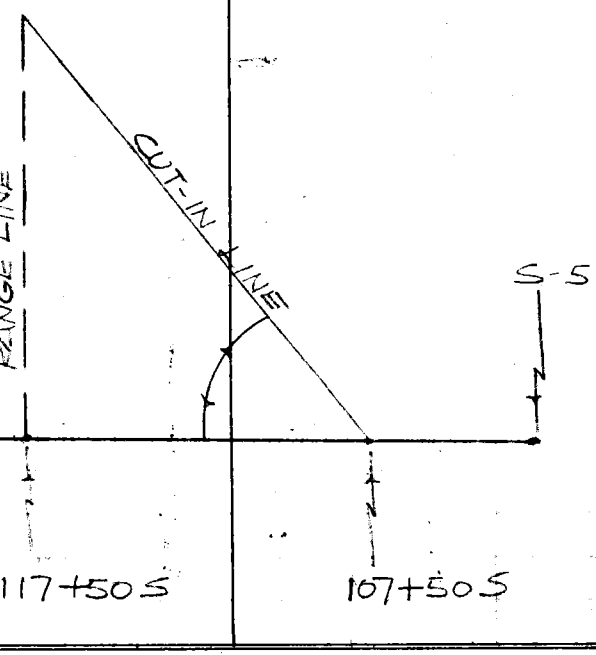
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S.	H. I.	F. S.	ELEV.
107+50 S	S-6				

#	Depth Rec.	Adj.	Time	Hor. Ang.	
1	33.3	29.0	5 16	62° 43	1939
2	32.2	27.9		61° 47	1864
3	31.1	26.8		60° 17	1752
4	30.1	25.8		58° 27	1629
5	29.2	24.9		57° 12	1554
6	28.3	24.0		56° 02	1484
7	27.9	23.6		54° 57	1408
8	27.5	23.2		52° 57	1325
9	26.8	22.5		51° 17	1249
10	25.8	21.5		49° 34	1174
11	25.0	20.7		47° 30	1091
12	23.9	19.6		45° 20	1015 (S-6)
13	23.1	18.8		44° 13	973
14	22.0	17.7		42° 43	923
15	20.5	16.2		41° 11	875
16	19.3	15.0		40° 05	842
17	17.7	13.4		38° 57	808
18	16.5	12.2		37° 25	765
19	14.9	10.6		36° 06	729
20	13.8	9.5		34° 55	698

Remarks

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.4
TIDE = -4.9
-4.3



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 187
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by MARCH 17 Notes R. S. Date 8-17-59
No. Date 9-24-59 Date 10-5-59 Map No. Index C. J. Date

F. B. 2801 Pg. 188 | Job No. 63002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 9-24-59 | Date 10-2-59 | No.

Survey by CHARRIET Notes STRADER | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson Date | Date 9-29-59 | Date 10-5-59 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
107+505					
5-6					
Inst. Sight At On					
#	Depth Rec.	Adj.	Time	Hor. Ang.	
1	12.5	8.2		660	
2	11.2	6.9		634	
3	9.8	5.5		595	
4	8.8	4.5		573	
5	8.1	3.8		543	
6	7.4	3.1		514	
7	7.0	2.7		486	
					ADJUSTMENTS BOAT = +1.0 ZERO = -0.4 TIDE = -4.9 -4.3

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 107+50	Sight on 112+50
		[illegible]			DATUM MEAN LOWER LOW WATER	/USHORE
[illegible]	387	22 15	30	18 78		112 + 50 S
			+38	26 0	CONTROL	LINE
			+[illegible]	26 4	19° L, BOTT. WALL	
			+30	[illegible]		28° R. [illegible]
			20	20 2		42° R. [illegible]
			52	16 6		100° [illegible]
			93	12 9		200° R.
			14	12 8		238° R. [illegible]
			108	11 4		[illegible]
[illegible]	0 9	9 6	135	87		260 R.
[illegible]			4 9	4 7	30° 36'	296
			7 9	1 7	33 20	329
			10 2	-0 6	38 24	396
			10 6	-1 0	41 47	447
			11 7	-2 1	45 19	506
			12 9	-3 3	47 10	539
			13 8	-4 2	48 48	571
			14 9	-5 3	50 04	597
			16 6	-7 0	51 33	630

Profile Notes Red. CWH Plotted CWH Job No. [illegible] Division No. [illegible] F. B. 2801 Pg. 189
No. Date 9-24-59 Date 10-2-59 Survey of BLACK EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked JSH Survey by Notes Date
No. Date 9-29-59 Date 10-5-59 Map No. Ind. [illegible] C. Johns[illegible] Date

F. B. 2801 Pg. 190 | 0300.02

Job No. _____ Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date 8-17-59 Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-288 S & E #307—1-56

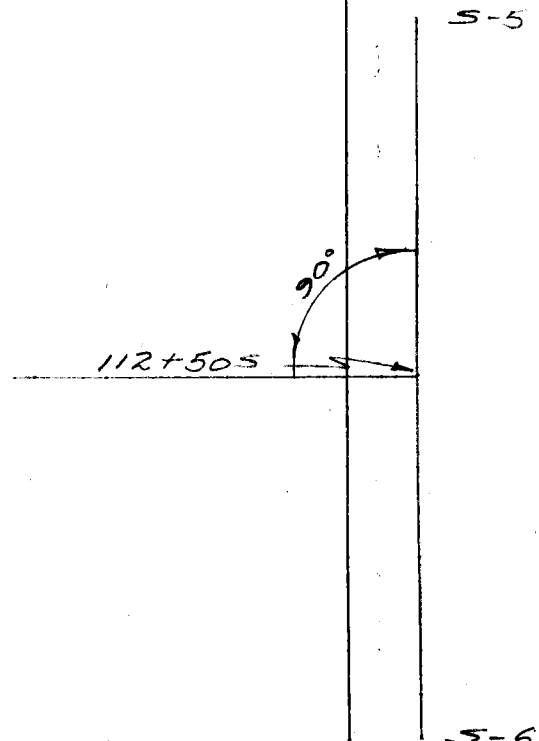
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-5	1		8:31	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
112+50S		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 28-01 Pg. 191
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. JSH Checked JSH Survey by Hammond Notes Ellen Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed G. Johnson

F. B. 2801 Pg. 192 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

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

Indexed Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
5-5	21			90°00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28			" "		
	29		8:35	" "		

112 + 50.5

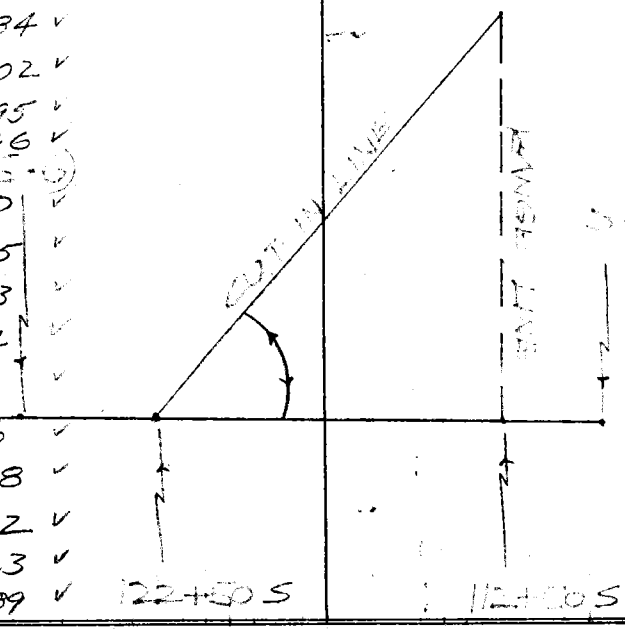
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	1	33.3 / 29.2	8 30	63° 47	2031	ADJUSTMENTS
	2	32.4 / 28.3		62° 56	1957	BOAT = +1.0
	3	31.8 / 27.7		61° 56	1876	ZERO = -0.2
	4	30.7 / 26.6		60° 31	1769	TIDE = -4.9
	5	29.8 / 25.7		58° 52	1656	-4.1
	6	28.8 / 24.7		57° 23	1563	
	7	28.1 / 24.0		56° 02	1484	
	8	27.6 / 23.5		54° 30	1402	
	9	27.5 / 23.4		52° 20	1295	
	10	26.5 / 22.4		50° 48	1226	
	11	25.6 / 21.5		49° 00	1150	
	12	25.1 / 21.0		47° 35	1095	
	13	24.5 / 20.4		46° 12	1043	
	14	23.8 / 19.7		44° 50	994	
	15	22.4 / 18.3		43° 01	933	
	16	21.1 / 17.0		41° 33	886	
	17	19.7 / 15.6		39° 31	828	
	18	18.2 / 14.1		37° 41	772	
	19	15.9 / 11.8		35° 52	723	
	20	13.9 / 9.8		34° 31	689	



122+50 S

Profile
No. ____ Notes Red. CKH Plotted CWH Job No. 3002 Division No. 10 F. B. 2861 Pg. 193
Date 8-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec.
No. ____ Notes Chkd. KH Checked ____ Survey by BEACH EROSION STUDIES Date 8-17-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. J. B. Date ____ Notes C. J. B. Date ____

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 194 Job No. 030003 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION		B. S.	H. I.		F. B.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	12.1	8.0		32°56	648	ADJUSTMENTS
		22	10.5	6.4		31°50	621	BOAT = +1.0
		23	9.7	5.6		30°17	596	ZERO = -0.2
		24	8.8	4.7		30°02	579	TIDE = -4.9
		25	8.3	4.2		29°04	556	-4.1
		26	7.7	3.6		28°30	541	
		27	7.1	3.0		27°22	518	
122+505	S-5	28	6.4	2.3		25°43	482	
		29	6.0	1.9	9 25	22°02	467	

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 102+50	Sight on 107+50
		22 15 ✓			DATUM MEAN LOWER LOW WATER	INSHORE 107+50S
[illegible]	320	20 3 ✓	[illegible]	17 1 ✓		
			+43	24 6 ✓	CONTROL	LINE
			+70	27 3 ✓	[illegible] L. BAR CLIFF	
			+45	24 8 ✓		55° R. [illegible]
			[illegible]	[illegible] ✓		55° R. [illegible]
			[illegible]	[illegible] ✓		[illegible]
			82	12 1 ✓		[illegible]
			74	[illegible] ✓		[illegible]
			[illegible]	[illegible] ✓		[illegible]
[illegible]	0 7	8 7 ✓	[illegible]	[illegible] ✓		273 [illegible]
			4 0	4 7 ✓	30° 52'	299 ✓
			9 6	-0 9 ✓	37 51	389 ✓
			10 3	-1 [illegible] ✓	41 20	440 ✓
			10 5	-1 [illegible] ✓	44 34	492 ✓
			11 5	-2 8 ✓	48 19	562 ✓
			13 6	-4 9 ✓	51 00	617 ✓
			16 2	-7 5 ✓	53 10	668 ✓

Profile No. X-Sec. No. Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Survey of BEACH EROSION STUDIES Division No. [illegible] Notes Chkd. [illegible] Date 9-29-59 Checked [illegible] Date 10-5-59 Survey by [illegible] Map No. Indexed K. C. Johnson Notes [illegible] Date [illegible] Date [illegible]

F. B. 2801 Pg. 195

F. B. 2801 Pg. 196 | 0300.02

Job No. Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by C.R. LIND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 S & E #307—1-56

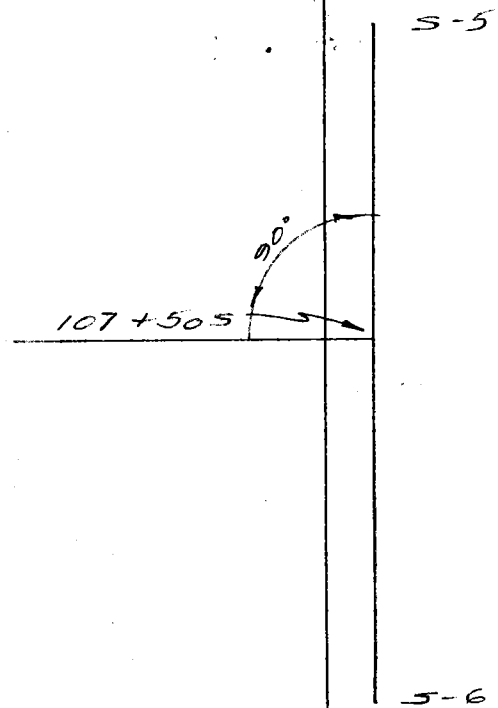
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-5	1		8:47	90° 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



107 + 50 S

Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 197
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Ellen Date 8-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Johnson

F. B. 2801 Pg. 198 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by Wharnet | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed S. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

107+50S

S-5

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25		8:51	"	

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76298 S & E #307—7-55

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
122+50 S.	S-5	1	34.2	29.8	8 46	55° 13'	2160
		2	33.0	28.6		53° 23'	2019
		3	32.1	27.7		52° 02'	1923
		4	31.1	26.7		50° 34'	1824
		5	30.2	25.8		49° 00'	1725
		6	29.6	25.2		47° 28'	1635
		7	29.2	24.8		45° 48'	1542
		8	28.4	24.0		43° 44'	1436
		9	27.3	22.9		41° 32'	1329
		10	26.4	22.2		39° 36'	1241
		11	25.3	21.1		37° 35'	1155
		12	24.1	19.9		35° 36'	(S-6) 1074
		13	22.7	18.5		33° 30'	993
		14	21.5	17.3		31° 58'	936
		15	20.2	16.0		30° 21'	879
		16	19.3	15.1		29° 06'	836
		17	17.8	13.6		27° 51'	792
		18	16.3	12.1		26° 31'	749
		19	14.7	10.5		25° 02'	701
		20	13.6	9.4		24° 16'	677

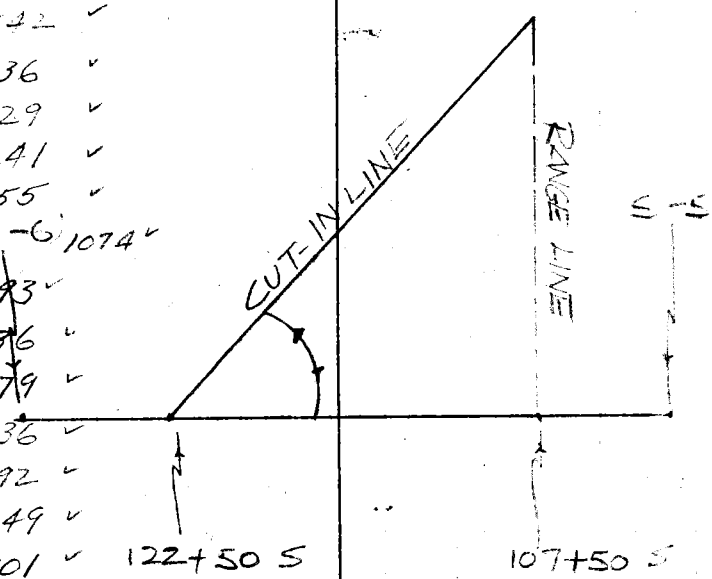
ADJUSTMENTS

BOAT = +1.0

ZERO = -0.6 (shots 1 to 9), -0.4 (shots 10 to 25)

TIDE = -4.8

(shots 1 to 9) -4.4 (shots 10 to 25) -4.2



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. 10 Survey of BEACH EROSION STUDIES Survey by CHAPPIE Notes R.I.S. Date 8-17-59 F. B. [illegible] Pg. 199

X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Map No. ____ Indexed G. [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
122+50 S	S-5	21	12.4	8.2		23° 24'	650 ✓
		22	11.3	7.1		22° 53'	633 ✓
		23	9.7	5.5		21° 50'	602 ✓
		24	7.7	3.5		20° 36'	564 ✓
		25	7.0	2.8	8 51	19° 36'	534 ✓

ADJUSTMENTS
BOAT = +1.0 ✓
ZERO = -0.4 ✓
TIDE = -4.8 ✓
-4.2 ✓

F. B. 2801 Pg. 200 Job No. 03002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 107+50	Sight on 102+50
		TO 37			DATUM MEAN LOWER LOW WATER	INSHORE 102+50S
T.P.	4 11	[illegible]	293	17 4		
			+47	26 2	CONTROL	LINE
			+55	27 0	15° L. BOT BANK	
			+55	27 0		19° Rt. T BANK
			23	19 2		43° Rt. B BANK
			55	16 0		100° Rt.
			92	12 3		163° Rt. BANK
			86	12 9		200° Rt.
			86	12 9		244° Rt. T. BK
			98	11 7		256° Rt.
T.P. for [illegible]	1 0	9 0	[illegible]	8 0		[illegible]
			4 3	4 7	31° 18'	304
			8 6	0 4	36 38	372
			10 8	-1 8	40 19	424
			12 5	-3 5	43 47	479
			11 3	-2 3	46 55	535
			13 0	-4 0	48 58	575
			14 5	-5 5	51 09	621
			15 2	-6 2	52 16	646
			17 0	-8 0	54 25	699

Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. ____ Division No. ____ Survey of BEACH EROSION STUDIES

X-Sec. No. ____ Notes Chkd. JSH Date 9-24-59 Checked JSH Date 10-5-59 Survey by ____ Notes ____ Date ____ Map No. ____ Indexed C. Jenner Date ____

F. B. 2801 Pg. 201

F. B. 2801 Pg. 202 03.00.02

Job No. Division No. 10 Notes Red Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by E.K. LIND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-299 S & E #307—1-56

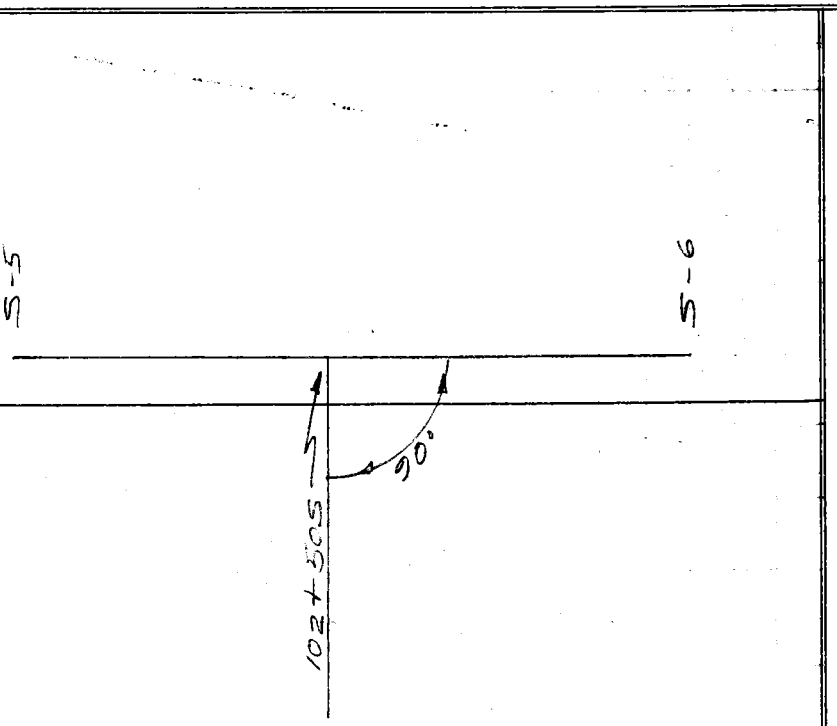
Profile No.	Notes Red. CWH	Plotted CWH	Job No. 030002	Division No. 10	F. B. 2801 Pg. 203
	Date 9-24-59	Date 10-2-59	Survey of Beach Erosion Study		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by UHAuriet	Notes Ellen	Date 8-17-59
	Date 9-29-59	Date 10-5-59	Map No.	Indexed C. Johnson	Date

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At Sight On 5-6	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		9:05	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



102+50S

76298 S & E #307—7-55

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2801 Pg. 204 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Bench Erosion Study Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by Wanner Notes Ellek Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-6	21			90° 00'		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26			" "		
		27			" "		
		28			" "		
		29			" "		
102+50 S		30			" "		
		31			" "		
		32		9:10	" "		

76298 S & E #307—7-55

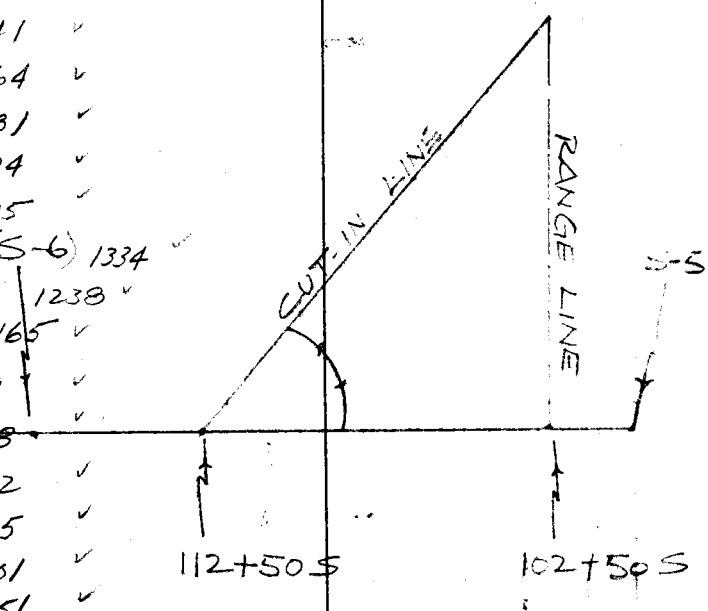
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	34.5	30.6	9 05	65° 36'	2205	
		2	33.9	30.0		64° 42'	2117	
		3	33.3	29.4		64° 00'	2050	
		4	32.5	28.6		63° 00'	1963	
		5	31.9	28.0		61° 48'	1865	
		6	31.3	27.4		61° 06'	1812	
		7	30.6	26.7		60° 08'	1741	
		8	30.1	26.2		59° 00'	1664	
		9	29.4	25.5		57° 41'	1581	
		10	28.7	24.8		56° 23'	1504	
		11	28.0	24.1		55° 08'	1435	
112+50 S.	S-5	12	27.1	23.2		53° 08'	(S-6) 1334	
		13	26.4	22.5		51° 04'	1238	
		14	25.6	21.7		49° 22'	1165	
		15	24.8	20.9		47° 51'	1109	
		16	23.9	20.0		45° 20'	1048	
		17	22.9	19.0		44° 47'	992	
		18	21.6	17.7		43° 22'	945	
		19	19.8	15.9		42° 02'	901	
		20	18.4	14.5		40° 24'	851	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.1
TIDE = -4.8
-3.9



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 030003 Division No. 10 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by WHARRIET Notes S.C. Date 8-17-59 Map No. ____ Indexed C. Jones Date ____
F. B. 2801 PG. 205

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks ADJUSTMENTS
112+50S	5-5	21	17.1	13.2		38°52	806	BOAT = +1.0
		22	16.0	12.1		37°38	771	ZERO = -0.1
		23	14.9	11.0		[illegible]	738	TIDE = -4.8
		24	13.7	9.8		[illegible]	712	-3.9
		25	12.3	8.4		[illegible]	680	
		26	11.2	7.3		[illegible]	657	
		27	10.2	6.3		32°08	628	
		28	8.9	5.0		[illegible]	592	
		29	7.1	3.2		[illegible]	548	
		30	6.2	2.3		[illegible]	528	
		31	7.0	3.1		[illegible]	504	
		32	7.4	3.5	9 09	[illegible]	472	

F. B. 2801 Pg. 206 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 92+50	Sight on 97+50
		21 51			DATUM MEAN LOWER LOW WATER	INSHORE 97+50S
T.P.	10 87	30 13	225	19 26		
T.P.	4 21	25 12	922	20 91		
T.P.	3 10	20 19	803	17 07		
97+50			+63	27 0	Control	Line
			+66	27 0	12° L. B.B.	
			+68	27 0		30° R. T.P.
			41	16 1		76° R. B.B.
			51	15 1		100° R.
			80	12 2		200° R.
			74	12 8		252° R.
T.P. for Swim party only	1 3	8 5	130	~~16 0~~ 7 2		290° R.
			47	3 8	31° 58'	312
			80	0 5	37 21	382
			96	-1 1	40 27	426
			92	-0 7	43 45	479
			107	-2 2	47 18	542
			129	-4 4	50 07	598
			148	-6 3	52 04	642
			164	-~~8~~ 7 9	53 52	685

Profile No. X-Sec. No.
Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. Survey of Survey by Notes Date
Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Map No. Indexed C. Johnson Date
Division No.
F. B. 2801 Pg. 207

F. B. 2801 Pg. 208 | 0300.02

Job No. Division No. 10 Notes Red Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by C.K. LIND Notes LIND Notes Chkd. Checked X-Sec.

Indexed Date 8-17-59 Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76L-298 S & E #307—1-56

76298 S & E #307—7-55

PLEASE RETURN TO

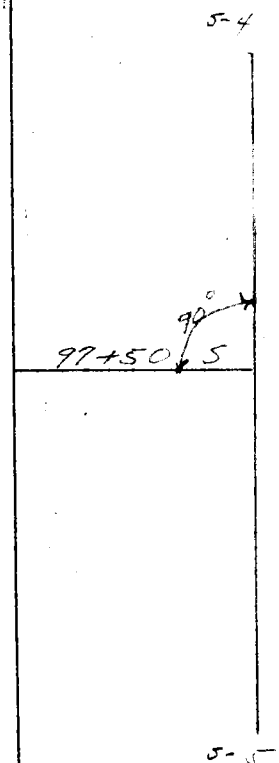
LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
	S-4	1		9 39	90 00		
		2			" "		
		3			" "		
		4			" "		
		5			" "		
		6			" "		
		7			" "		
		8			" "		
		9			" "		
		10			" "		
		11			" "		
		12			" "		
		13			" "		
		14			" "		
		15			" "		
		16			" "		
		17			" "		
		18			" "		
		19			" "		
		20			" "		



97+50 S

Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2501 Pg. 209

No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study

X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes Lider Date 9-17-59

No. Date 9-29-59 Date 10-5-59 Map No. Index No. C. [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 210 | Job No. 0300.02 | Division No. 10 | Notes Red. CWH | Plotted CWH
Survey of Beach Erosion Studies | Date 9-24-59 | Date 10-2-59 | Profile No.
Survey by Wharrett | Notes Liden | Notes Chkd. JSH | Checked JSH | X-Sec. No.
Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
5-4	21			90 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26		9 45	" "		
22 + 50 5						

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

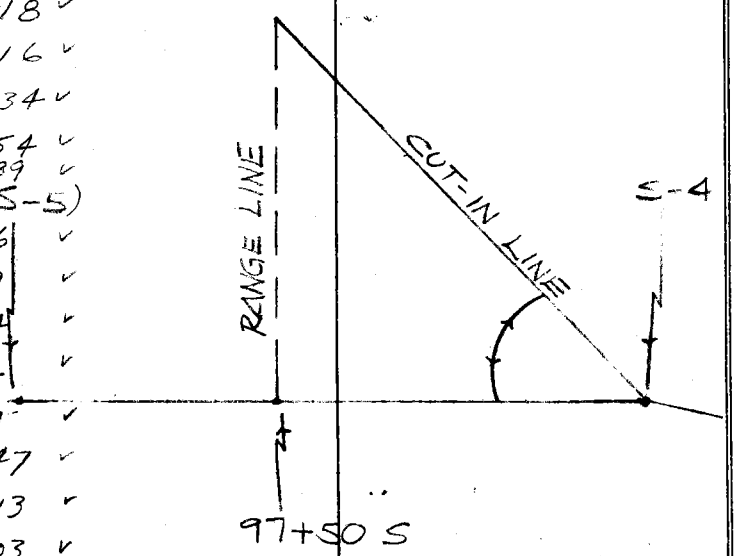
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.	
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	
		1	32.7	28.9	9 38	61° 00'	2055
		2	31.3	27.5		59° 18'	1918
		3	30.3	26.5		57° 31'	1790
		4	29.7	25.9		56° 13'	1703
		5	28.8	25.0		54° 22'	1589
		6	27.9	24.1		52° 42'	1496
		7	27.2	23.4		51° 13'	1418
		8	26.4	22.6		49° 07'	1316
		9	26.1	22.3		47° 17'	1234
86+10.84 S. S-4	S-5	10	25.0	21.2		45° 22'	1154
		11	23.8	20.0		43° 42'	1089 (S-5)
		12	22.5	18.7		41° 10'	996
		13	20.9	17.1		39° 30'	939
		14	19.3	15.5		37° 48'	884
		15	18.0	14.2		36° 08'	832
		16	16.6	12.8		34° 45'	791
		17	14.8	11.0		33° 17'	747
		18	13.6	9.8		32° 04'	713
		19	12.5	8.7		31° 41'	703
		20	11.3	7.5		29° 54'	655

Remarks

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.2
TIDE = -4.6
-3.8



Profile Notes Red CWH Plotted CWH Job No. 0300 Division No. 10 F. B. 2801 Pg. 211
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes R.L.S. Date 9-17-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
S-4	S-5	21	10.0	6.2		29° 07'	635 ✓
		22	9.0	5.2		27° 54'	603 ✓
		23	7.8	4.0		26° 07'	558 ✓
		24	6.6	2.8		24° 48'	526 ✓
		25	5.9	2.1		23° 49'	502 ✓
		26	5.5	1.7	9 42	22° 20'	468 ✓

ADJUSTMENTS
BOAT = +1.0 ✓
ZERO = -0.2 ✓
TIDE = -4.6 ✓
-3.8 ✓

F. B. 2801 Pg. 212 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 87+50	Sight on 92+50
		20 19			DATUM MEAN LOWER LOW WATER	INSHORE 92+50S
T.P.	+43	21 39	323	16 [illegible]		
			+60	27 4	CONTROL	LINE
			+54	27 3	75 [illegible]	
			+63	28 [illegible]		235 RT. [illegible]
			35	17 9		56 RT. [illegible]
			52	16 2		100 RT.
			[illegible]	12 1		196 RT. [illegible]
			53	[illegible]		262 RT. TOP [illegible]
			102	11 2		271 [illegible]
T.P. FOR SWIM PARTY ONLY	0 7	7 8	143	7 1		300 [illegible]
			31	4 7	31° 51'	311
			77	0 1	37 05	378
			90	-1 2	40 00	420
			87	-0 9	43 03	467
			100	-2 2	46 14	522
			114	-3 6	48 31	566
			128	-5 0	50 12	600
			152	-7 4	51 56	638
			167	-8 9	53 23	673

Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0500[illegible] Division No. 10 Survey of BEACH EROSION STUDIES

X-Sec. No. ____ Notes Chkd JSH Date 9-28-59 Checked JSH Date 10-5-59 Survey by [illegible] Notes [illegible] Date [illegible] Map No. ____ Indexed [illegible] Date ____

F. B. 2801 Pg. 213

76L-298 S & E #307—1-56

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.	[illegible]	
		21 39			[illegible]	
T.P.	11 81	31 87	133	20 06		
S-4			693	24 97	S-4- 24.956	per F.B. 2100-166

F. B. 2801 Pg. 214 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by [illegible] Notes [illegible] Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

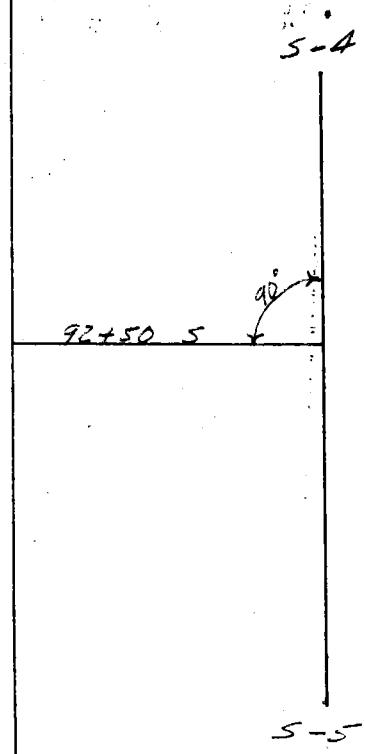
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
	S-4	1			10 05	90	00	
		2				"	"	
		3				"	"	
		4				"	"	
		5				"	"	
		6				"	"	
		7				"	"	
		8				"	"	
		9				"	"	
		10				"	"	
		11				"	"	
		12				"	"	
		13				"	"	
		14				"	"	
		15				"	"	
		16				"	"	
		17				"	"	
		18				"	"	
		19				"	"	
		20				"	"	



Profile Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 215
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSA Checked JSA Survey by Unarmed Notes [illegible] Date 8-12-59
No. Date 9-29-59 Date 10-5-59 Map No. Index [illegible] C. Jones [illegible]

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
	5-4	21			90 00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26			" "		
		27			" "		
		28		10 09	" "		
92 450							

F. B. 2801 Pg. 216 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by Wharriet Notes Liden Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

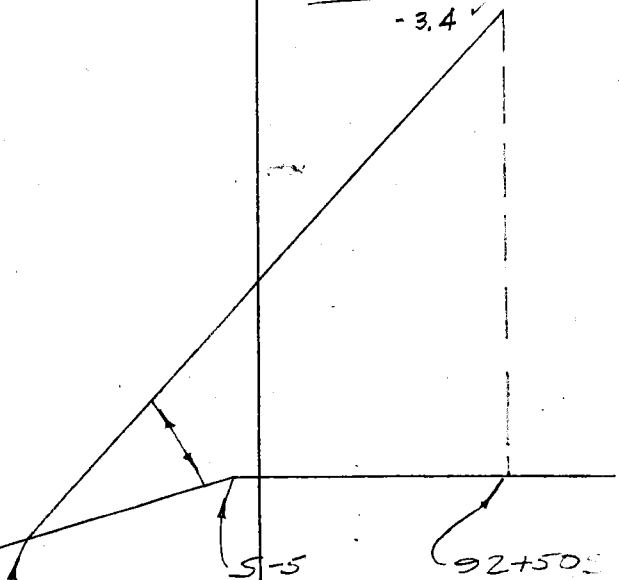
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 No. ____ X-Sec. No. ____ Notes Red. CWH Date 9-29-59 Notes Chkd. JSH Date 9-30-59 Plotted CWH Date 10-2-59 Checked JSH Date 10-5-59 Job No. 3008 Survey of BEACH EROSION STUDIES Survey by Map No. ____ Division No. 10 Notes by Date ____ Notes by Date ____ Ind. C. J. Bannon F. B. 2801 Pg. 217

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	1	31.9 / 28.5	10 04	51° 25	2007	ADJUSTMENTS
	2	30.8 / 27.4		49° 40	1864	BOAT = +1.0
	3	30.1 / 26.7		48° 41	1792	ZERO = -0.1
	4	29.4 / 26.0		46° 35	1662	TIDE = -4.3
	5	28.9 / 25.5		45° 20	1591	-3.4
	6	28.3 / 24.9		43° 47	1508	
	7	27.6 / 24.2		42° 11	1425	
	8	26.8 / 23.4		40° 22	1360	
	9	26.2 / 22.8		39° 20	1286	
5	10	25.3 / 21.9		37° 36	1208	
107+50	11	24.4 / 21.0		35° 50	1133	
	12	23.2 / 19.8		34° 02	1061	
	13	21.9 / 18.5		32° 29	1000	
	14	20.7 / 17.3		30° 52	940	
	15	18.9 / 15.5		29° 20	884	
	16	17.1 / 13.7		27° 38	823	
	17	15.6 / 12.1		26° 22	781	
	18	14.1 / 10.7		25° 06	738	
	19	12.8 / 9.4		23° 56	701	
	20	11.5 / 8.1		22° 56	668	



76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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		S. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	10.2	6.8		22° 07	643 ✓	
		22	9.1	5.7		21° 22	620 ✓	
		23	8.0	4.6		20° 29	592 ✓	
		24	7.0	3.6		19° 36	565 ✓	
		25	6.4	3.0		18° 29	532 ✓	
		26	5.9	2.5		17° 29	502 ✓	
		27	5.8	2.4		16° 53	484 ✓	
		28	5.8	2.4	10 08	15° 47	453 ✓	
1074505	5-5							

ADJUSTMENTS

BOAT = +1.0 ✓
ZERO = -0.1 ✓
TIDE = -4.3 ✓
-3.4 ✓

F. B. 2801 Pg. 218 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by C. HARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

763098 CE #247—7-55

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

Notes Ck'd by
Map No.
Office Work CWH
Checked JSH
Date 2-1-58

Survey of
JN Tape Std. °F
Surveyed by
Notes Date
Indexed

B. B. Pg.

F. B. 2801 Pg. 219 A

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

Notes Ck'd by CWH	Survey of Beach Erosion Study F.B. 2801 Pg. 219
Map No.	JN Tape Std °F
Office Work	Surveyed by UHarriet
Checked	Notes Eller Date 8-18-59
Date 9-2-59	Indexed [illegible]

8-18-59

~~3.0~~ 2.8 ON DATUM LINE of TIDE GAUGE - Santa Monica

GAUGE TIME (P.S.T) - 12:07

WATCH TIME (P.S.T) - 12:10

STANDARD TIME	GAUGE READING
6:00 AM	+ ~~2.5~~ +2.3
6:30	+ ~~3.2~~ +3.0
7:00	+ ~~4.0~~ +3.8
7:30	+ ~~4.5~~ +4.3
8:00	+ ~~4.9~~ +4.7
8:30	+ ~~5.2~~ +5.0
9:00	+ ~~5.3~~ +5.1
9:30	+ ~~5.3~~ +5.1
10:00	+ ~~5.1~~ +4.9
10:30	+ ~~4.6~~ +4.4
11:00	+ ~~4.2~~ +4.0

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

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

76309S CE #247—7-53

RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 PG. 220

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 92+50		Sight on 87+50
S-4	281	27 77		24 96	S-4 EL= 24.956		INSHORE
T.P.	560	21 61	11 76	16 01	PER FB 2100-166		87+50 S.
87+50			+67	283	CONTROL		LINE
			+77	293	9° L. BB		
			+47	263	DATUM		32° R. T.B.
			40	17 6	MEAN LOWER LOW WATER		57° R. B.B.
			55	16 1			100° R.
			90	12 6			180° R. BRK
			90	12 6			200° R
			87	12 9			260° R. T. BRK
			101	11 5			268 R B. BRK
T.P.	19	9 6	139	7 7	30° 45'	297	299 R.
			70	2 6	34 08	339	
			91	0 5	37 27	383	
			99	-0 3	40 54	433	
			107	-1 1	44 06	485	
			116	-2 0	46 38	529	
			130	-3 4	49 10	579	
			151	-5 5	51 45	634	
			176	-8 0	54 09	692	

Profile No. ___ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by [illegible] Notes [illegible] Date 8-18-59
No. ___ Date ___ Map No. ___ Index [illegible] C. Johnson

F.B. 2801 PG. 221

F.B. 2801 Pg. 222

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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

76L-298 CE 307 11-58

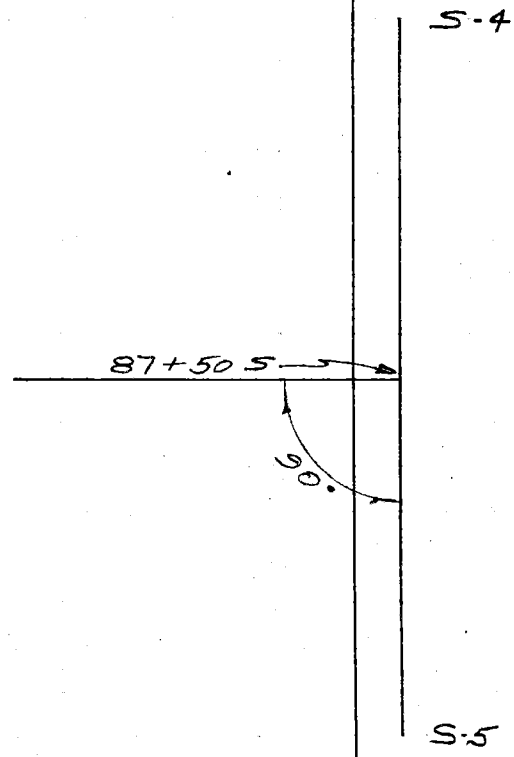
76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
	S-5	1		6:14	90° 00	
		2			" "	
		3			" "	
		4			" "	
		5			" "	
		6			" "	
		7			" "	
		8			" "	
		9			" "	
		10			" "	
		11			" "	
		12			" "	
		13			" "	
		14			" "	
		15			" "	
		16			" "	
		17			" "	
		18			" "	
		19			" "	
		20			" "	



87+50 S

Profile Notes Red. CWH Plotted CWH Job No. 0300-02 Division No. 10 F. B. 2801 Pg. 223
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Harriet Notes Eller Date 8-18-59
No. Date 9-29-59 Date 10-3-59 Map No. Indexed C. Johnson Date

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
	S-5	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26		6:18	" "		
87+50.5							

F.B. 2801 Pg. 224 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by UHarriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

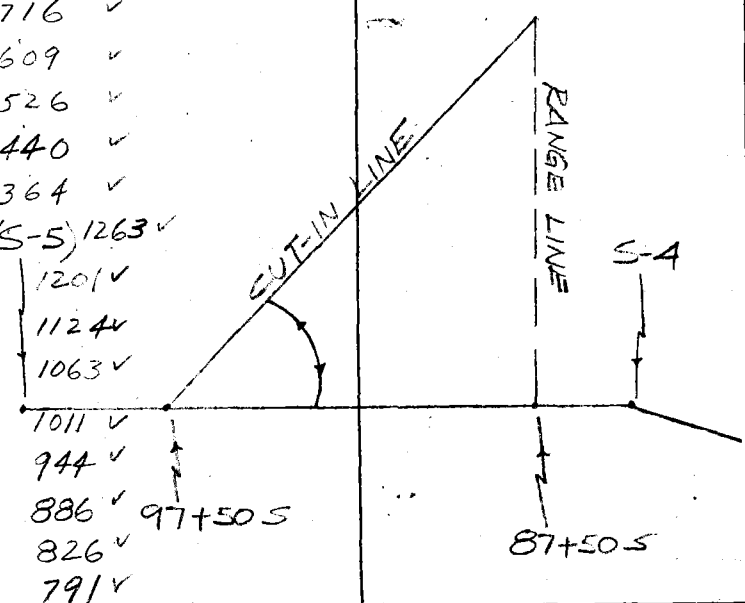
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
97+50 S.	S-4	1	31.3	29.2	6 15	66° 46'	2329	ADJUSTMENTS
		2	30.8	28.7		65° 35'	2203	BOAT = +1.0
		3	30.4	28.3		64° 42'	2116	ZERO = -0.4
		4	29.7	27.6		63° 20'	1991	TIDE = -2.7
		5	28.9	26.8		62° 26'	1916	-2.1
		6	28.2	26.1		61° 04'	1809	
		7	27.6	25.5		59° 46'	1716	
		8	27.0	24.9		58° 08'	1609	
		9	26.5	24.4		56° 46'	1526	
		10	25.8	23.7		55° 13'	1440	
		11	25.2	23.1		53° 45'	1364	
		12	24.3	22.2		51° 38'	(S-5) 1263	
		13	23.7	21.6		50° 13'	1201	
		14	22.9	20.8		48° 20'	1124	
		15	21.7	19.6		46° 45'	1063	
		16	20.3	18.2		45° 18'	1011	
		17	19.0	16.9		43° 21'	944	
		18	17.4	15.3		41° 32'	886	
		19	15.8	13.7		39° 34'	826	
		20	14.5	12.4		38° 21'	791	



Profile Notes Red CWH Plotted CWH Job No. 030008 Division No. 10 F. B. 2801 Pg. 225
No. Date Date Survey of PENCIL FROSION
X-Sec. Notes Chkd. JSH Checked JSH Survey by J. HARRIET Notes K.L.S. Date 8-18-59
No. Date Date Map No. Indexed C. John Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks ADJUSTMENTS
		21	13.2 11.1		30° 40'	744	BOAT = +1.0
		22	11.5 9.4		35° 40'	718	ZERO = -0.4
		23	10.3 8.2		34° 03'	676	TIDE = -2.7
		24	9.3 7.2		33° 18'	657	-2.1
		25	8.3 6.2		32° 39'	641	
		26	7.5 5.4	6 19	31° 30'	613	
97+50 S.	S-4						

F. B. 2801 Pg. 226 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

Inst. at 77+50 Sight on 82+50

DATUM
MEAN LOWER LOW WATER

STATION	B.S.	H.I.	F.S.	ELEV.		
		21 61			Mean Lower Low Water	INSHORE
T.P.	5 29	21 77	51 3	16 48		82 + 50 S.
T.P.	3 64	22 01	340	18 37		
			+122	342	26° L. T.B.	
			+75	295	CONTROL	LINE
			+33	253		32 R. T.B.
			27	193		54 R. T.B.
			50	170		100 R.
			104	116		185 R. BRK
			99	121		200 R.
			89	131		275 R. T. BRK
			162	118		280 R. BRK
T.P.	1 6	10 4	132	88		300 R.
			57	47	33° 26'	330
			87	17	36 56	376
			109	-05	40 00	420
			111	-07	42 42	461
			121	-17	45 47	514
			140	-36	49 07	578
			163	-59	51 12	622
			180	-76	51 54	638

Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 030002 Division No. 10 Survey of ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by LIND Notes LIND Date 8-18-59 Map No. ____ Indexed C. Johnson Date ____

F.B. 2801 Pg. 227

F. B. 2801 Pg. 228

Job No. 030002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L298 307 8-53

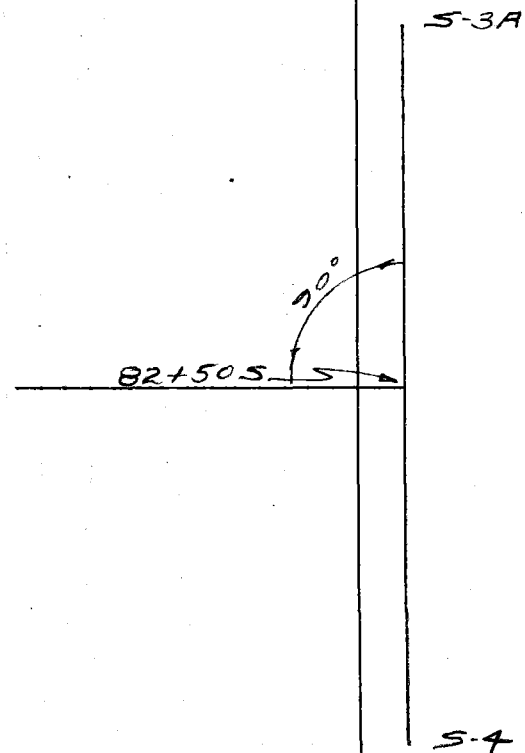
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
S-3A	1		6:29	90° 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		

82+50 S



Profile No. ____ Date 9-24-59 Notes Red. CWH Plotted CWH Date 10-2-59 Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 229

X-Sec. No. ____ Date 9-19-59 Notes Chkd. JSH Checked JSH Date 10-5-59 Survey of BEACH EROSION STUDY Survey by DHARNIET Notes Ellen Date 8-18-59 Map No. ____ Index C. John

F.B. 2801 PG. 230 | Job No. 030002 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by VHarriet | Notes Eller | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed L. C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

82 + 50 S

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
S-3A	21			90° 00	
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30		6:33		

76L298 307 8-53

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

Do not extend notes this side of this line.

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

76298 S & E #307—7-55

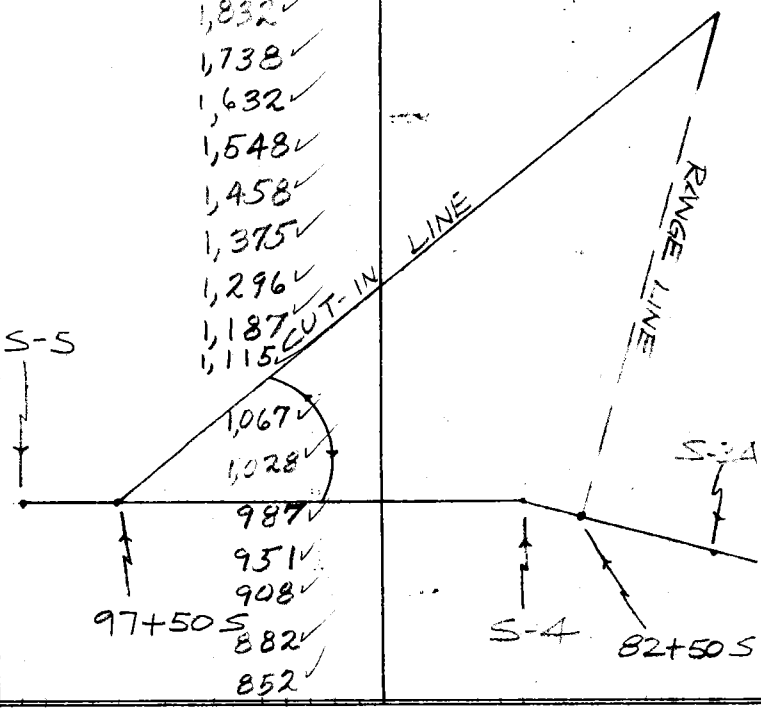
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	1	29.9 / 27.4	6 30	52° 53	2,120	
	2	29.9 / 27.4		52° 08	2,062	
	3	29.8 / 27.3		51° 11	1,988	
	4	30.3 / 27.8		49° 58	1,901	
	5	29.3 / 26.8		49° 00	1,832	
	6	28.2 / 25.7		47° 32	1,738	
	7	27.7 / 25.2		45° 46	1,632	
	8	27.4 / 24.9		44° 18	1,548	
	9	27.0 / 24.5		42° 40	1,458	
	10	26.6 / 24.1		41° 02	1,375	
	11	26.2 / 23.7		39° 24	1,296	
	12	24.7 / 22.2		37° 01	1,187	
	13	23.8 / 21.3		35° 22	1,115	
	14	22.6 / 20.1		34° 18	1,067	
	15	21.3 / 18.8		33° 13	1,028	
	16	19.9 / 17.4		32° 10	987	
	17	19.0 / 16.5		31° 14	951	
	18	17.9 / 15.4		30° 05	908	
	19	16.9 / 14.4		29° 20	882	
	20	16.0 / 13.5		28° 30	852	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.4
TIDE = -3.1
-2.5



97+50 S.
S-4

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300C2 Station No. 10 F. B. 2801 Pg. 231
Date 7-24-59 Date 7-24-59 Survey of 23rd Street Improvements
X-Sec. No. ____ Notes Chkd. JSM Checked JSM Survey by CHARRIETT Notes R.L.S. Date 8-18-59
Date 8-18-59 Date 10-3-59 Map No. ____ Intered C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2801 Pg. 232 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by WARRIE T. STRADER Notes Chkd. JSH Checked JSH
Indexed [redacted] C. Johnson Date Date 9-19-59 Date 10-5-59 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.		Remarks
97+50 S.	S-4	21	15.2	12.6		27°28'	814	ADJUSTMENTS
		22	14.3	11.7		26°58'	797	BOAT = +1.0
		23	13.5	10.9		25°52'	760	ZERO = -0.4
		24	13.0	10.4		25°27'	745	TIDE = -3.2
		25	12.2	9.6		25°06'	734	-2.6
		26	11.6	9.0		24°27'	712	
		27	11.1	8.5		23°54'	696	
		28	10.1	7.5		22°42'	656	
		29	9.3	6.7		22°09'	639	
		30	8.7	6.1	6 34	21°46'	628	

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at S-3A	Sight on 77+50
		22 01			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	484	21 40	545	16 56		77+50 S.
			+133	34 7	L. T. BANK	
77+50			+83	29 7	CONTROL	LINE
			+74	28 8		19° R. T BANK
			39	17 5		58° R. B. BANK
			50	16 4		160° R.
			68	14 6		166° R. BRK
			86	12 8		200 R. B. BRK
			82	13 2		285 R. BRK
			99	11 5		296 R T BRK
T.P.	1 5	9 6	133	8 1		324 R
			4 9	4 7	54° 08'	346
			7 7	1 9	57 00	385
			9 4	0 2	59 00	416
			10 1	-0 5	61 10	454
			10 7	-1 1	63 11	495
			12 1	-2 5	64 55	534
			13 6	-4 0	66 57	588
			15 7	-6 1	68 07	623
			17 0	-7 4	69 10	657

Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 10 F.B. 2801 Pg. 235
No. Date 9-24-59 Date 10-2-59 Survey of [illegible]
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 9-18-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 234

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-250 CE 307 11-58

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

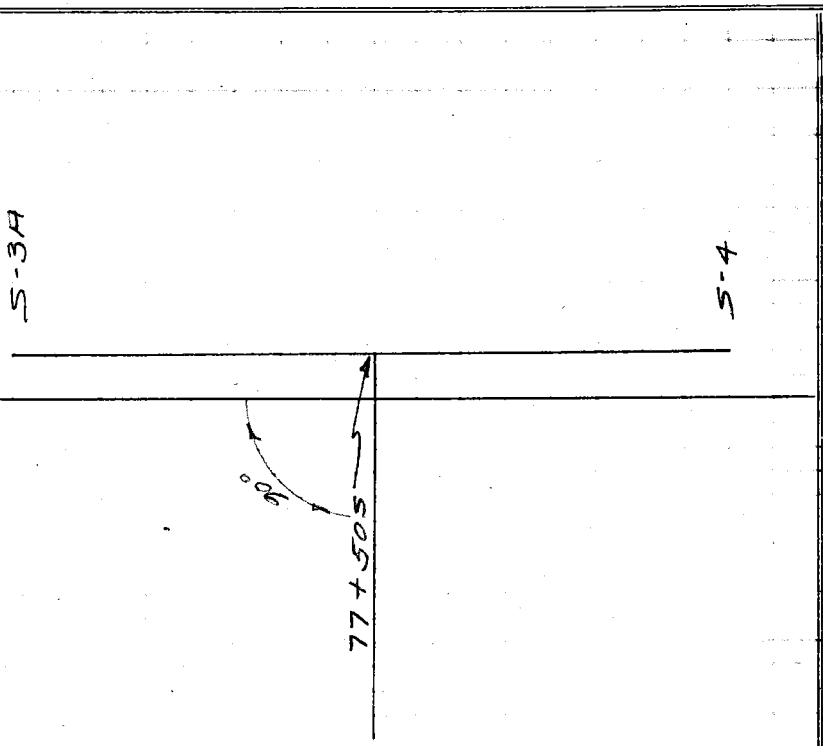
Profile No.	Notes Red. CWH	Plotted CWH	Job No. 030002	Division No. 10	F. B. 2801 Pg. 235
	Date 9-24-59	Date 10-2-59	Survey of BEACH Erosion Study		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by [illegible]	Notes [illegible]	Date 8-18-59
	Date 9-29-59	Date 10-5-59	Map No.	Indexed [illegible] C. Johnson	Date

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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 CH	#	Color	Time	Hor. Ang.	
S-3A	1		6:58	90° 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	



77+50.5

76L298 307 8-53

F. B. 2801 Pg. 236 | Job No. 0300.03 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Study | Date 9-24-59 | Date 10-2-59 | No.

Survey by VHarriet | Notes Ellen | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed C. Johnson | Date | Date 9-29-59 | Date 10-5-59 | No.

77+50.5

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight On	#	Color	Time	Hor. Ang.
5-3A	21			90° 00
	22			"
	23			"
	24			"
	25			"
	26			"
	27			"
	28		7:03	"

Remarks

76L298 307 8-53

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

Do not extend notes this side of this line.

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

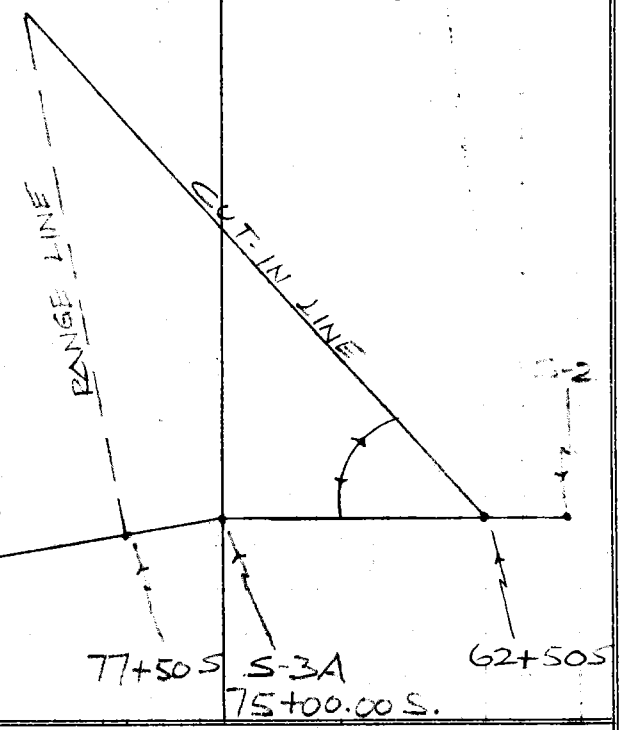
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	32.3	29.0	6 59	57° 21'	2409	ADJUSTMENTS
		2	31.1	27.8		55° 12'	2216	BOAT = +1.0
		3	29.8	26.5		53° 42'	2098	ZERO = -0.4
		4	28.7	25.4		51° 23'	1922	TIDE = -3.9
		5	29.2	25.9		49° 02'	1763	-3.3
		6	28.6	25.3		46° 30'	1611	
		7	27.5	24.2		44° 16'	1491	
62+50 S.	S-3A	8	26.7	23.4		42° 00'	1376	
		9	26.1	22.8		40° 27'	1302	
		10	25.0	21.7		38° 30'	1214	
		11	23.8	20.5		37° 02'	1149	
		12	22.5	19.2		35° 22'	1081	
		13	21.8	18.5		34° 19'	1040	
		14	20.9	17.6		33° 27'	1006 (S-4)	
		15	20.1	16.8		32° 28'	969	
		16	19.0	15.7		31° 22'	928	
		17	17.8	14.5		30° 20'	890	
		18	16.5	13.2		29° 01'	845	
		19	15.2	11.9		27° 55'	806	
		20	14.0	10.7		26° 52'	770	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300 Division No. 10 F. B. 280 Pg. 237
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by DUMPRIET Notes R. S. Date 8-18-59
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. J. [illegible] Date ____

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks ADJUSTMENTS
		21	12.6	9.3		25°51	737 ✓	BOAT = +1.0 ✓
		22	11.4	8.1		24°48	703 ✓	ZERO = -0.4 ✓
		23	10.3	7.0		23°50	673 ✓	TIDE = -3.9 ✓
		24	9.0	5.7		22°51	643 ✓	-3.3 ✓
		25	7.7	4.4		21°51	611 ✓	
		26	6.8	3.5		20°40	574 ✓	
		27	5.8	2.5		19°30	539 ✓	
62+50 S.	S-3A	28	5.0	1.7	704	18°53	520 ✓	

F. B. 2801 Pg. 238 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-19-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at S-3A	Sight on 72+50
		21 40			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	353	20 62	431	17 69		72+50 S.
			+95	30 1	13° L. B.B.	
			+92	29 8	CONTROL	LINE
			+92	29 8		26° R. T.P.
			35	17 1		60° R. B.B.
			50	15 6		100° R.
			64	14 2		186° R. T.P.
			82	12 4		200° R. B.B.
			74	13 2		300° R. T.P.
			87	11 9		310 R. B.B.
T.P.	1 2	8 8	130	7 6		343 R.
			41	4 7	55° 24'	363
		9	72	1 6	59 10	419
			91	-0 3	61 19	457
			99	-1 1	63 50	509
			105	-1 7	66 00	562
			113	-2 5	67 12	595
			124	-3 6	68 24	632
			134	-4 6	69 37	673
			148	-6 0	71 22	742

Profile No. X-Sec. No. Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300-02 Division No. 16 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Date 9-24-59 Checked JSH Date 10-5-59 Survey by [illegible] Map No. Notes Date
Indexed C. Johnson Date

F.B. 2801 Pg. 239

F.B. 2801 Pg. 240

Job No. 030002 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 CE 307 11-58

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At CN	#	Color	Time	Hor. Ang.	Remarks	
5-2	1		7:14	90° 00		5-2
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "	90°	
	8			" "		
72+505	9			" "	72+505	
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		5-3-A
	19			" "		
	20			" "		

Profile No. ____ X-Sec. No. ____

Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 03002 Division No. 10 F. B. 2801 Pg. 241

Notes Chkd. JJH Date 9-29-59 Checked JJH Date 10-5-59 Survey of Beach Erosion Study Survey by Unknown Notes Entered Date 8-18-59 Map No. ____ Indexed C. Johnson

F.B. 2801 PG. 242 Job No. D30002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by VHarriet Notes Ellek Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
72+50.5					
Inst. Sight At OH S-2	#	Color	Time	Hor. Ang.	
	21			90° 00	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27		7:18	"	

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

Do not extend notes this side of this line.

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

76L298 307 8-53

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

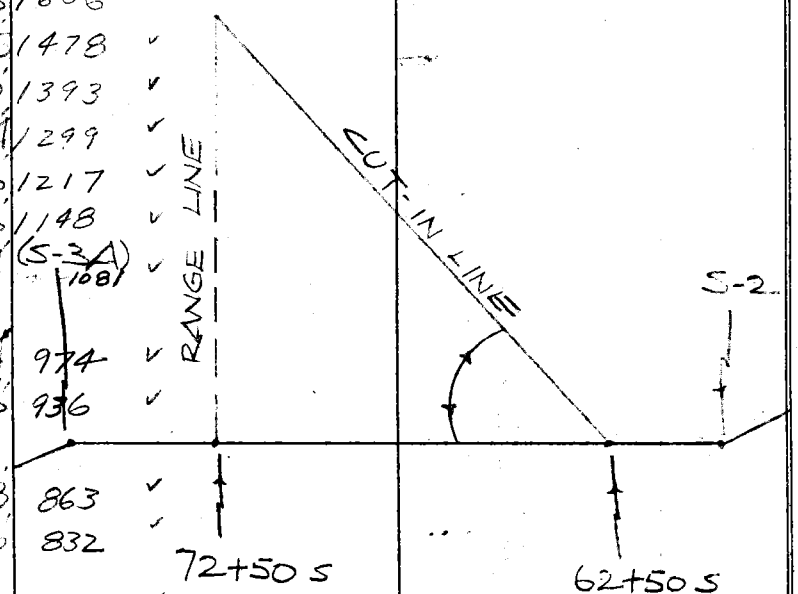
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		1	31.4	27.8	7 15	66° 54	2345	
		2	30.3	26.7		65° 19	2176	
		3	28.8	25.2		63° 20	1991	
		4	28.5	24.9		62° 20	1907	
		5	28.7	25.1		60° 29	1766	
		6	28.5	24.9		58° 05	1606	
		7	27.6	24.0		55° 55	1478	
		8	27.0	23.4		54° 20	1393	
		9	26.2	22.6		52° 24	1299	
		10	25.0	21.4		50° 36	1217	
		11	24.0	20.4		48° 56	1148	
		12	22.9	19.3		47° 14	(S-3A) 1081	
		13	21.5	17.9				
		14	20.5	16.9		44° 14	974	
		15	19.3	15.7		43° 06	936	
		16	18.1	14.5				
		17	17.1	13.5		40° 48	863	
		18	16.1	12.5		39° 46	832	
		19	15.2	11.6				
		20	14.2	10.6		37° 51	777	

62+50 S.

S-3A

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.4
TIDE = -4.2
-3.6



Profile No. ____ Notes Red. CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 0300 Division No. 10 Survey of BEACH EROSION STUDIES Survey by DUMCRIFT Notes R.1.5 Date 8-18-59 F. B. 2801 Pg. 243

X-Sec. No. ____ Notes Chkd. ____ Date 9-29-59 Checked ____ Date 10-5-59 Map No. ____ Index ____

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	12.9	9.3		36°52	750	ADJUSTMENTS
		22	12.2	8.6		36°05	729	BOAT = +1.0
		23	11.3	7.7		35°09	704	ZERO = -0.4
		24	10.0	6.4		34°20	683	TIDE = -4.2
		25	9.1	5.5		33°34	664	-3.6
		26	8.3	4.7		32°50	645	
		27	7.8	4.2	7:19	31°39	616	
62+50 S.	S-3A							

F. B. 2801 Pg. 244 Job No. 0300.03 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by CHARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst at 72+50	Sight on 67+50
		20 62			DATUM MEAN LOWER LOW WATER	INSHORE
T.P.	2 90	21 37	2 15	18 47		67+50 S.
67+50 S			+10 4	31 8	12° L.	
			+9 4	30 8	CONTROL	LINE
			+8 5	29 4		21° R. T.F.
			27	18 7		60° R. B.R.
			51	16 3		100 R.
			61	15 3		200 R. B.R.
			81	13 3		257 R. B. Edge
			84	13 0		300 R.
			88	12 6		331 R. T. Bank
T.P. for Sub. Earth work	0 9	9 1	13 2	8 2		3-7 R.
			4 4	4 7	37° 58'	390
		9	7 6	+1 5	41 48	447
			9 2	-0 1	44 08	485
			10 2	-1 1	46 37	529
			10 6	-1 5	48 42	569
			11 4	-2 3	50 26	605
			12 8	-3 7	52 36	654
			14 4	-5 3	54 20	697
			16 4	-7 +3	56 17	749

Profile No. ____ Notes Red. CWH Plotted CWH Job No. [illegible] Division No. 16
X-Sec. No. ____ Date 9-24-57 Date 10-2-57 Survey of BEACH EROSION STUDIES
Notes Chkd. WH Checked WH Survey by ____
Date 9-29-57 Date 10-5-57 Map No. ____ Notes ____ Date ____

F.B. 2801 Pg. 245

F. B. 2801 Pg. 246

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L298 307 8-53

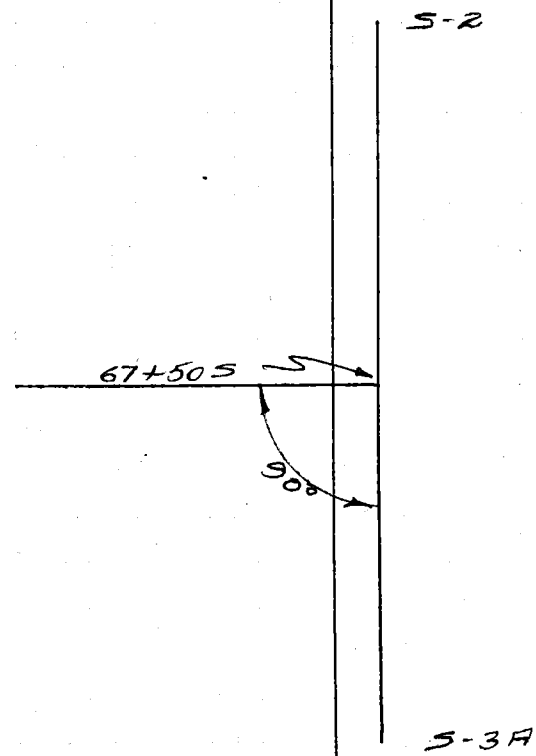
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
S-3A	1		7:32	90° 00		
	2			" "		
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "		
	11			" "		
	12			" "		
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		
	19			" "		
	20			" "		

67+50S



Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 241
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Uhanwel Notes Ellen Date 8-16-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. J[illegible] Date

F.B. 2801 PG. 248 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Harriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
S-3A	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27		7:36	" "		

67+50S

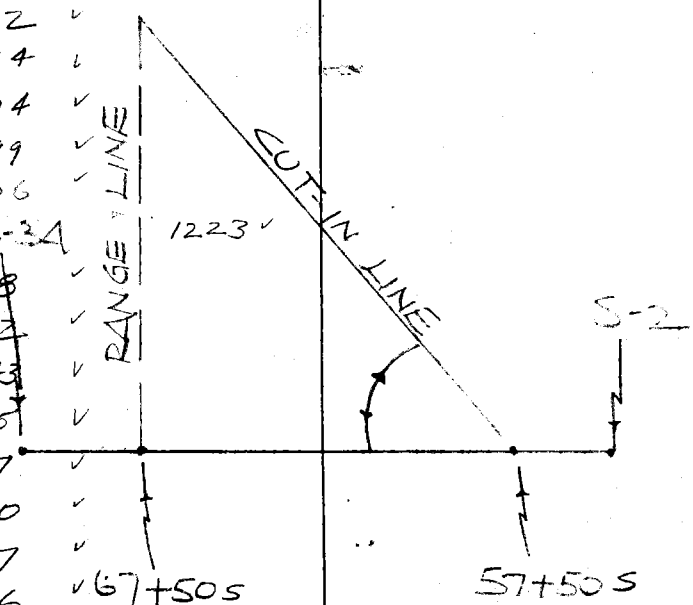
76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
57+50 S.	S-3A	1	32.8	28.8	7 33	68° 02	2479	ADJUSTMENTS
		2	31.6	27.6		66° 30	2300	BOAT = +1.0
		3	30.6	26.6		64° 40	2112	ZERO = -0.5
		4	30.3	26.3		62° 38	1932	TIDE = -4.5
		5	30.3	26.3		61° 11	1818	-4.0
		6	30.0	26.0		59° 43	1712	
		7	29.6	25.6		57° 54	1594	
		8	29.1	25.1		56° 23	1504	
		9	28.1	24.1		54° 26	1399	
		10	26.5	22.5		52° 33	1306	
		11	25.3	21.3		50° 43		
		12	24.1	20.1		48° 57	1148	
		13	23.0	19.0		47° 16	1082	
		14	22.1	18.1		46° 13	1043	
		15	21.2	17.2		45° 08	1005	
		16	20.2	16.2		44° 03	967	
		17	18.8	14.8		42° 37	920	
		18	17.8	13.8		41° 15	877	
		19	16.4	12.4		39° 54	836	
		20	14.4	10.4		38° 43	802	



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 249
No. Date 9-24-59 Date 10-2-59 Survey of REACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Notes P.I.S. Date 9-19-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jones

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks. ADJUSTMENTS
		21	12.8	8.8		37° 21	766 ✓	BOAT = +1.0 ✓
		22	11.1	7.1		35° 59	726 ✓	ZERO = -0.5 ✓
		23	9.8	5.8		34° 54	698 ✓	TIDE = -4.5 ✓
		24	8.7	4.7		33° 44	668 ✓	-4.0 ✓
		25	7.8	3.8		32° 41	642 ✓	
		26	7.0	3.0		31° 15	607 ✓	
		27	6.3	2.3	7 37	30° 21	586 ✓	
57+50 S.	S-3A							

F. B. 2801 Pg. 250 Job No. 03000B Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by CHARRET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at 67+50	Sight on 62+50
		21 37			DATUM MEAN LOWER LOW WATER	INSHORE 62+50 S.
T.P.	1 40	20 99	1 78	19 59		
62+50					CONTROL	LINK [illegible] GUARD STATION
			49	16 1		100° R.
			58	15 2		200° R.
			79	13 1		300° R.
			85	12 5		355° R.
			99	11 1		365° R. [illegible]
T.P.	0 8	8 7	131	7 9		393° R.
			4 0	4 7	39° 42'	415
			7 9	0 8	43 36	476
			9 0	-0 3	45 58	517
			10 1	-1 4	48 54	573
			11 6	-2 9	51 15	623
		?	13 3	-4 6	53 55	686
			15 1	-6 4	56 39	760
			16 8	-8 1	57 34	787

Profile No. ____ Notes Red CWH Plotted CWH Job No. ____ Division No. ____
X-Sec. No. ____ Date 9-24-57 Date 10-2-57 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by ____ Notes ____ Date ____
Date 9-29-57 Date 10-5-57 Map No. ____ Indexed ____ Date ____

F.B. 2801 Pg. 251

F.B. 2801 Pg. 252

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-268 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

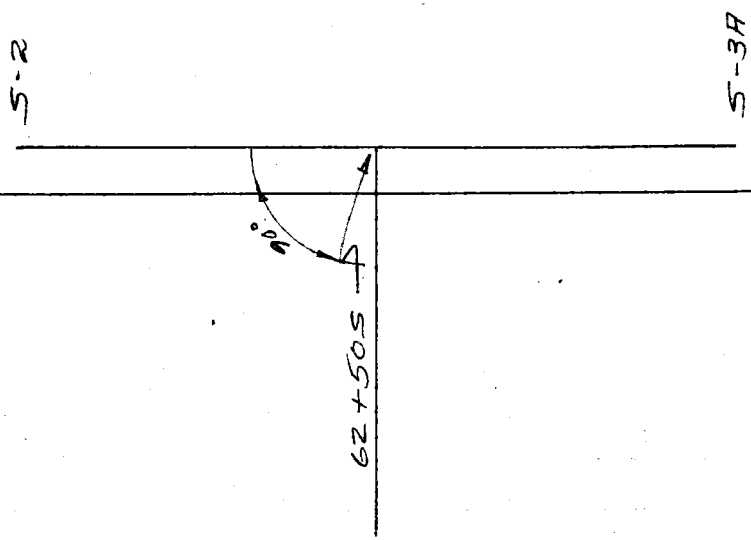
Profile	Notes Red. CWH	Plotted CWH	Job No. 0300.02	Division No. 10	F. B. 2801	Pg. 253
No.	Date 9-24-59	Date 10-2-59	Survey of BEACH EROSION STUDY			
X-Sec.	Notes Chkd. JSH	Checked JSH	Survey by [illegible]	Notes [illegible]	Date 8-18-59	
No.	Date 9-29-59	Date 10-5-59	Map No.	Indexed C. Johns[illegible]		

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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 CH	#	Color	Time	Hor. Ang.	
S-2	1		8:09	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



62+50 S

76L298 307 8-53

F.B. 2801 PG. 254

Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by UHarriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed A. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
5-2	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26		8:13	" "		

62 + 50 5

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
72+50 S.	S-2	1	34.0	29.7	8 10	69° 12	2633	
		2	33.2	28.9		68° 03	2481	
		3	32.4	28.1		66° 40	2318	
		4	31.8	27.5		65° 22	2181	
		5	31.2	26.9		64° 01	2052	
		6	30.7	26.4		62° 57	1958	
		7	30.2	25.9		61° 34	1847	
		8	29.8	25.5		59° 22	1689	
		9	29.3	25.0		57° 45	1585	
		10	29.0	24.7		55° 21	1447	
		11	28.1	23.8		53° 42	1361	
		12	26.3	22.0		51° 36	(S-3A) 1262	
		13	25.1	20.8		49° 45	1181	
		14	23.7	19.4		48° 02	1112	
		15	22.2	17.9		46° 31	1054	
		16	20.7	16.4		45° 01	1001	
		17	18.9	14.6		43° 46	958	
		18	17.6	13.3		42° 34	918	
		19	16.3	12.0		40° 46	862	
		20	15.1	10.8		39° 44	831	

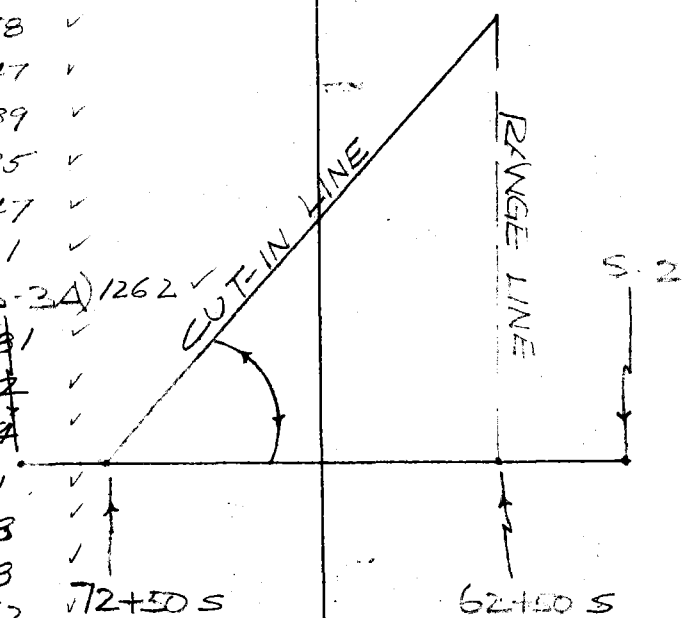
ADJUSTMENTS

BOAT = +1.0

ZERO = -0.4

TIDE = -4.9

-4.3



Profile Notes Red. CWH Plotted CWH Job No. 0330 Division No. 10 F. B. 2801 Pg. 255
No. Date 9-24-59 Date 10-2-59 Survey of REACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by HAPPIE Notes 8.1.3. Date 9.18.59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jonn

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	ADJUSTMENTS
		21	13.7	9.4		38° 27	794		BOAT = +1.0
		22	12.3	8.0		37° 08	757		ZERO = -0.4
		23	10.8	6.5		35° 44	719		TIDE = -4.9
		24	9.7	5.4		35° 01	701		-4.3
		25	8.5	4.2		33° 35	664		
		26	7.4	3.1	8 14	32° 10	629		
72+50 S.	S-2								

F. B. 2801 Pg. 256 Job No. 0300.03 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. [illegible] Date Date 9-29-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at S-2	Sight on 57+50
		20 99			DATUM MEAN LOWER LOW WATER	INSHORE 57+50 S.
T.P.	11 47	28 72	3 74	17 25		
57+50			+0.7	24 4	CONTROL	LINE
			1 8	26 9		37° R. TOP WALK
			5 1	23 6		37° R. BOTT WALK
			10 7	18 4		79° R. BRK
T.P.	1 78	20 23	10 27	18 45		
			3 8	16 4		100° R.
			5 4	14 8		200° R
			6 3	13 4		300° R.
			7 7	12 5		375° R
			7 8	12 4		390° R.
			10 9	9 3		400° R.
T.P.	2 1	9 3	13 0	7 2		417° R
			4 6	4 7	74° 12'	436 ✓
			8 3	1 0	75 50	489 ✓
			10 0	-0 7	77 07	540 ✓
			12 1	-2 8	78 46	622 ✓
			13 4	-4 1	79 17	653 ✓
			15 6	-6 3	79 55	694 ✓
			17 3	-8 0	80 18	722 ✓

Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. 030002 Division No. 16
X-Sec. No. ____ Notes Chkd. JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by ____ Map No. ____ Notes ____ Date ____ Indexed C. John[illegible]

F.B. 2801 Pg. 257

F.B. 2801 Pg. 258 Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.

76L-298 CE 307 11-58

Profile No.	Notes Red. CWH	Plotted CWH	Job No. 0300,02	Division No. 10	F. B. 2801 Pg. 259
	Date 9-24-59	Date 10-2-59	Survey of BEACH EROSION Study		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by UHARRIEL	Notes Eller	Date 8-18-59
	Date 9-29-59	Date 10-5-59	Map No.	Inde[redacted]d C. John[redacted]	

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

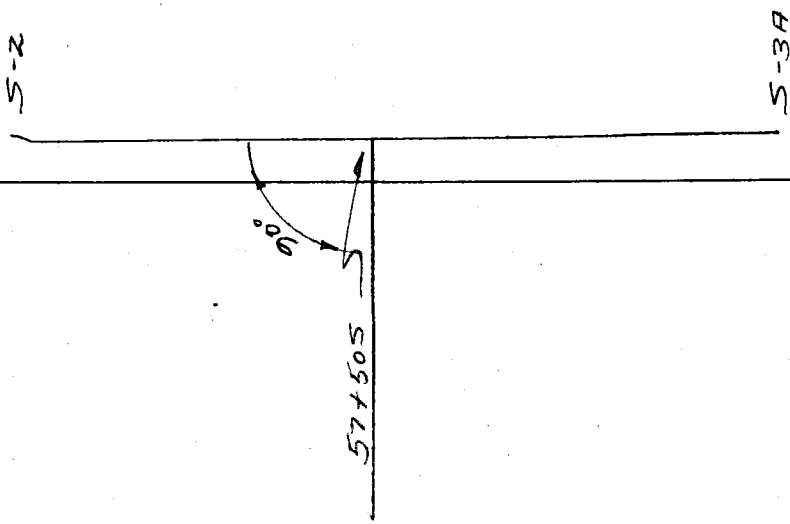
PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

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 On	#	Color	Time	Hor. Ang.	
5-2	1		8:26	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



57+50 S

76L298 307 8-53

F.B. 2801 PG. 260

Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by UHarriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed [redacted] C. John[redacted] Date Date 9-29-59 Date 10-5-59 No.

57+50 S

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
5-2	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25		8:30	" "		

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

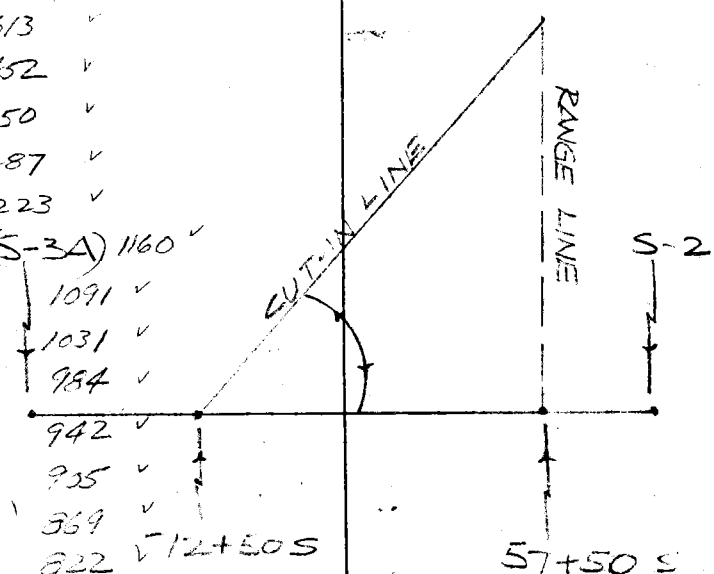
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	33.3	28.8	8 27	58° 16'	2426	
		2	32.8	28.3		56° 42'	2285	
		3	32.4	27.9		[illegible]	2171	
		4	31.6	27.1		[illegible]	2015	
		5	31.2	26.7		[illegible]	1874	
		6	30.7	26.2		[illegible]	1748	
		7	30.0	25.5		47° 04'	1613	
		8	28.8	24.3		44° 04'	1452	
		9	28.0	23.5		42° 00'	1350	
72+50 S.	S-2	10	27.2	22.7		40° 31'	1287	
		11	26.2	21.7		39° 10'	1223	
		12	24.9	20.4		37° 43'	(S-3A) 1160	
		13	23.1	18.6		36° 01'	1091	
		14	21.6	17.1		34° 29'	1031	
		15	20.1	15.6		33° 16'	984	
		16	18.7	14.2		32° 07'	942	
		17	17.5	13.0		31° 06'	905	
		18	16.3	11.8		30° 05'	869	
		19	14.5	10.0		28° 44'	822	
		20	12.8	8.3		27° 26'	779	

ADJUSTMENTS

BOAT = +1.0
ZERO = -0.5
TIDE = -5.0
-4.5



Profile Notes Red CWH Plotted CWH Job No. 23000 Division No. 10 F. B. 2801 Pg. 261
No. Date 9-24-59 Date 10-2-59 Survey of REACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Jon Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	11.7	7.2		26° 18	741	ADJUSTMENTS.
		22	10.1	5.6		25° 13	707	BOAT = +1.0
		23	8.8	4.3		24° 05	671	ZERO = -0.5
		24	7.4	2.9		22° 52	633	TIDE = -5.0
		25	6.5	2.0	8 32	22° 04	608	-4.5
72+50 S.	S-2							

F. B. 2801 Pg. 262 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-29-59 Date 10-2-59 No. X-Sec.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L-298 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at S-2	Sight on 52+50
		20 23			DATUM MEAN LOWER LOW WATER	INSHORE
	3 69	21 88	2 04	18 19		52 + 50 S.
52+50					CONTROL	LINE
			00	21 9		3[illegible]° R. B. [illegible]
			49	17 0		100° R
			70	14 9		200° R.
			81	13 8		300° R.
			98	12 1		379° R T. [illegible]
			108	11 1		388° R. [illegible]
			119	10 0		400° R [illegible]
TP.	1 4	7 9	154	6 5		429° R
			32	4 7	49° 45'	445 ✓
			71	0 8	53 29	509 ✓
			85	-0 6	55 33	549 ✓
			94	-1 5	57 23	588 ✓
			103	-2 4	59 07	630 ✓
			119	-4 0	60 51	675 ✓
			133	-5 4	62 12	714 ✓
			154	-7 5	~~53~~ 63 56 ?	770 ✓ ?

Profile No. ____ Notes Red CWH Plotted CWH Job No. 070002 Division No. 10 F.B. 2801 Pg. 263
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by [illegible] Notes ____ Date ____
Date 9-29-59 Date 10-5-59 Map No. ____ Indexed C. Johnson Date ____

F.B. 2801 Pg. 264

Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L-268 CE 307 11-58

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
S-2	1		9:01	90° 00		
	2			" "		S-1
	3			" "		
	4			" "		
	5			" "		
	6			" "		
	7			" "		
	8			" "		
	9			" "		
	10			" "	52+50S	
	11			" "		
	12			" "	90°	
	13			" "		
	14			" "		
	15			" "		
	16			" "		
	17			" "		
	18			" "		S-2
	19			" "		
	20			" "		

52+50S

Profile No. ____ Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 265
Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDY
X-Sec. No. ____ Notes Chkd. JSH Checked JSH Survey by UHARRIET Notes Eller Date 8-18-59
Date 9-29-59 Date 10-5-59 Map No. ____ Date ____
Mark D. Jonnson

F.B. 2801 PG. 266

Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by UHarriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed [redacted] C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks	
5-2	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25		9:05	" "		

52+50.5

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

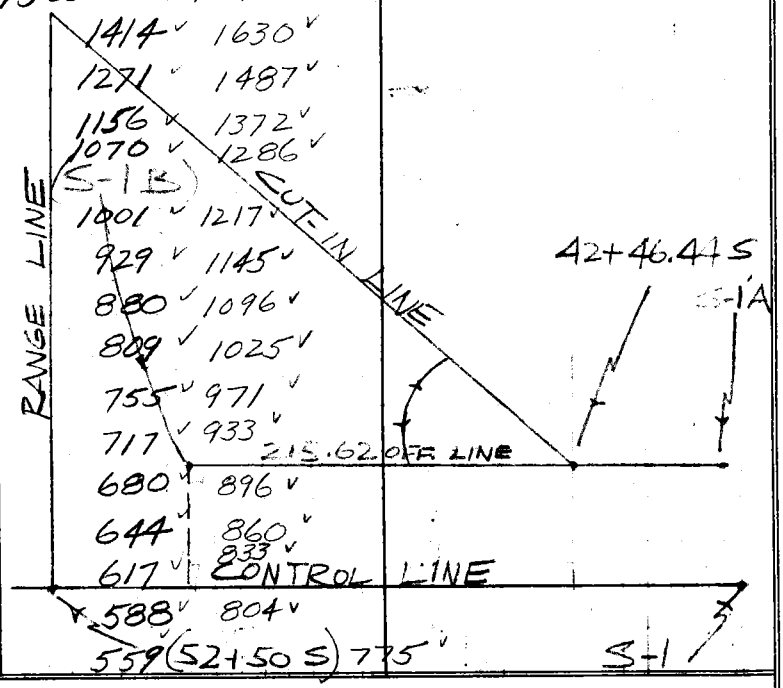
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
42+46.44 S.	S-1 B	1	33.1	28.6	9 01	64 52	2132	2348	
		2	32.4	27.9		63° 36	2015	2231	
		3	31.7	27.2		61° 08	1814	2030	
		4	31.3	26.8		58° 56	1660	1876	
		5	30.9	26.4		56° 24	1505	1721	
		6	30.4	25.9		54° 44	1414	1630	
		7	29.3	24.8		51° 48	1271	1487	
		8	28.6	24.1		49° 08	1156	1372	
		9	27.4	22.9		46° 56	1070	1286	
		10	26.3	21.8		45 01	1001	1217	
		11	25.1	20.6		42° 53	929	1145	
		12	23.6	19.1		41° 27	880	1096	
		13	21.8	17.3		38° 59	809	1025	
		14	20.6	16.1		37° 04	755	971	
		15	19.4	14.9		35° 39	717	933	
		16	18.3	13.8		34° 14	680	896	
		17	17.2	12.7		32° 47	644	860	
		18	15.9	11.4		31° 40	617	833	
		19	14.9	10.4		30° 27	588	804	
		20	13.4	8.9		29° 13	559	(52+50 S) 775	

ADJUSTMENTS

BOAT = +1.0
ZERO = -0.4
TIDE = -5.1
-4.5



Profile Notes Red CWH Plotted CWH Job No. [illegible] Division No. 10 F. B. 280 Pg. 267
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 8-18-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 268 Job No. 03000 Division No. 10 Notes Red. CWH Plotted CWH No.
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 X-Sec.
Survey by HARRIET Notes STRADLER Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.		ADD OFFSET	Remarks
	21	12.1	7.6	27 24	522	738	ADJUSTMENTS
	22	10.5	6.0	26 11	492	708	BOAT = +1.0 V
	23	9.4	4.9	24 58	466	682	ZERO = -0.4 V
	24	8.4	3.9	23 54	443	659	TIDE = -5.1 V
	25	7.8	3.3	9 05 22 21	411	627	-4.5 V
42+46.44 S.							
S-1'B							

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 52+50 (Old line)	Sight on 47+46.44
		[illegible]				INSHORE 47+46.44
T.P.	172	[illegible]	[illegible]	[illegible]	DATUM MEAN LOWER LOW WATER	
			70	[illegible]	215.62 OFFSET LINE	ADD OFFSET
			44	17 [illegible]	100 L.	116 R
			+13	22 7	13[illegible] L. Est. W.S.	30 R
			[illegible]	13 [illegible]		[illegible] L. 316 R
			[illegible]	[illegible]		[illegible] L. 376 R
			[illegible]	[illegible]		[illegible] 384 R
			[illegible]	[illegible]	(Note: 4-5 turned off old Line.)	[illegible] L. 416 R
T.P.	0 9	6 9	[illegible]	[illegible]		[illegible] L. 432 R
			2 2	4 7	41 19	440
			5 6	1 3	43 56	482
			7 3	-0 4	47 08	539
			8 7	-1 8	49 41	589
			9 5	-2 6	51 14	623
			10 5	-3 6	52 15	646
			12 0	-5 1	53 29	675
			13 0	-6 1	54 35	703

Profile No. ____ X-Sec. No. ____ Notes Red. SWH Date 9-24-59 Notes Chkd. [illegible] Date 9-29-59 Plotted CWH Date 10-2-59 Checked [illegible] Date 10-5-59 Job No. [illegible] Survey of [illegible] Survey by ____ Map No. ____ Division No. 12 Notes ____ Indexed C. J. [illegible] Date ____ F. B. 2831 Pg. 269

F. B. 2801 Pg. 270 Job No. 630002 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDY Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

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

Do not extend notes this side of this line.

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 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.

76298 S & E #307—7-55

76L298 307 8-53

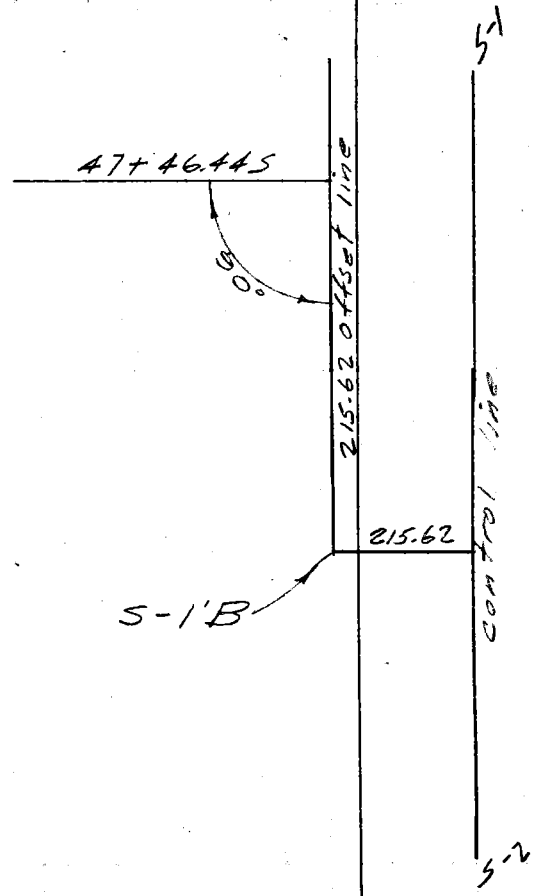
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
S-1'B	1		9:18	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19				
	20				

47+46.445



Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. D300.02 Division No. 10 Survey of Beach Erosion Study F. B. 2801 Pg. 271

X-Sec. No. ____ Notes Chkd JSH Date 9-29-59 Checked JSH Date 10-5-59 Survey by Uhlfriel Notes Eller Date 8-18-59 Map No. ____ Indexed C. Johnson Date ____

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F. B. 2801 Pg. 272 | Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by Wharnet Notes Ellen Notes Chkd. JSH Checked JSH X-Sec.
Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
5-15	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25			" "		
	26			" "		
	27			" "		
	28		9.22	" "		
47+46.44S						

76298 S & E #307—7-55

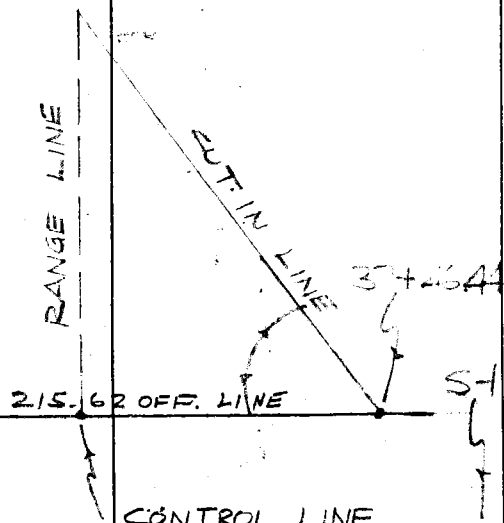
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	#	B. S.	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
37+46.44 S.	S-1B	1		32.7	28.2	918	63° 35'	2013	2229	
		2		32.4	27.9		62° 15'	1901	2117	
		3		32.4	27.9		61° 00'	1804	2020	
		4		31.5	27.0		59° 09'	1674	1890	
		5		31.3	26.8		57° 07'	1547	1763	
		6		31.0	26.5		54° 39'	1410	1626	
		7		30.6	26.1		52° 36'	1308	1524	
		8		30.3	25.8		51° 49'	1272	1488	
		9		28.7	24.2		49° 12'	1159	1375	
		10		27.5	23.0		47° 10'	1079	1295	
		11		26.9	22.4		45° 33'	1019	1235	
		12		26.3	21.8		44° 29'	982	1198	
		13		25.3	20.8		43° 10'	938	1154	S-1B
		14		24.5	20.0		41° 49'	895	1111	
		15		23.4	18.9		40° 24'	851	1067	
		16		22.3	17.8		39° 18'	818	1034	(S-2)
		17		21.2	16.7		38° 01'	782	998	
		18		20.1	15.6		36° 47'	748	964	
		19		18.7	14.2		35° 15'	707	923	
		20		17.6	13.1		33° 52'	671	887	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.4
TIDE = -5.1
-4.5



Profile No. ____ Date 9-24-59 Notes Red. DWH Plotted DWH Job No. 2300 Division No. 10 F. B. 2801
X-Sec. No. ____ Date 9-29-59 Notes Chkd. ____ Date 10-5-59 Checked ____ Date ____ Survey of BEACH EROSION STUDIES Survey by DWP, T.S. Notes ____ Date 9-18-59 Map No. ____ Index C. Johnson Pg. 273

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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.			Remarks
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		ADD OFFSET	ADJUSTMENTS
		21	16.7	12.2		32° 45	643	859	BOAT = +1.0
		22	15.5	11.0		31° 08	604	820	ZERO = -0.4
		23	14.3	9.8		29° 48	573	789	TIDE = -5.1
		24	12.9	8.4		28° 02	532	748	-4.5
		25	11.4	6.9		26° 32	499	715	
		26	10.2	5.7		25° 15	472	688	
		27	9.0	4.5		25° 50	442	658	
37+46.44 S.	S-1'B	28	7.9	3.4	9 22	22° 48	420	636	

F. B. 2801 Pg. 274 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. X-Sec.
Survey by UHARRIET Notes STRADER Notes Chkd. JSH Checked JSH
Indexed K. C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 37+46.44	Sight on 42+46.44
		21 3[illegible]			DATUM MEAN LOWER LOW WATER	1 U SHORE
	4 8[illegible]	19 7[illegible]	6 40	14 9[illegible]		42+46.44 S.
			4 9	14 9	215.62 OFFSET LINE	ADD OFFSET
			4 1	15 7	100 L.	116 R
			2 6	17 2	127 L. B.B.	89 R
			5 [illegible]	14 [illegible]		100 R. 316 R
			7 6	12 2		160 R. 376 R
			9 4	10 4		186 R. 402 R
			10 8	[illegible]		260 R. 416 R
T.P.	1 8	7 3	4 [illegible]	[illegible]		229 R. 445 R
			2 6	4 7	25° 11'	235 451
			6 2	1 1	28 28	271 487
			7 9	-0 6	33 20	329 545
			9 0	-1 7	36 46	374 590
			10 3	-3 0	39 15	409 625
			11 4	-4 1	40 54	433 649
			12 3	-5 0	42 18	455 671
			13 3	-6 0	43 49	480 696

Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date 10-2-59 Job No. [illegible] Division No. 10 Survey of BEACH [illegible] Notes [illegible] Date [illegible]

X-Sec. No. ____ Notes Chkd. [illegible] Date 9-29-59 Checked [illegible] Date 10-5-59 Survey by ____ Map No. ____ Indexed C. Johnson Date ____

F. B. 2801 Pg. 275

F. B. 2801 Pg. 276 Job No. 03002 Division No. 10 Notes Red. _____ Plotted _____ Profile

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

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

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

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

76298 S & E #307—7.55

PLEASE RETURN TO

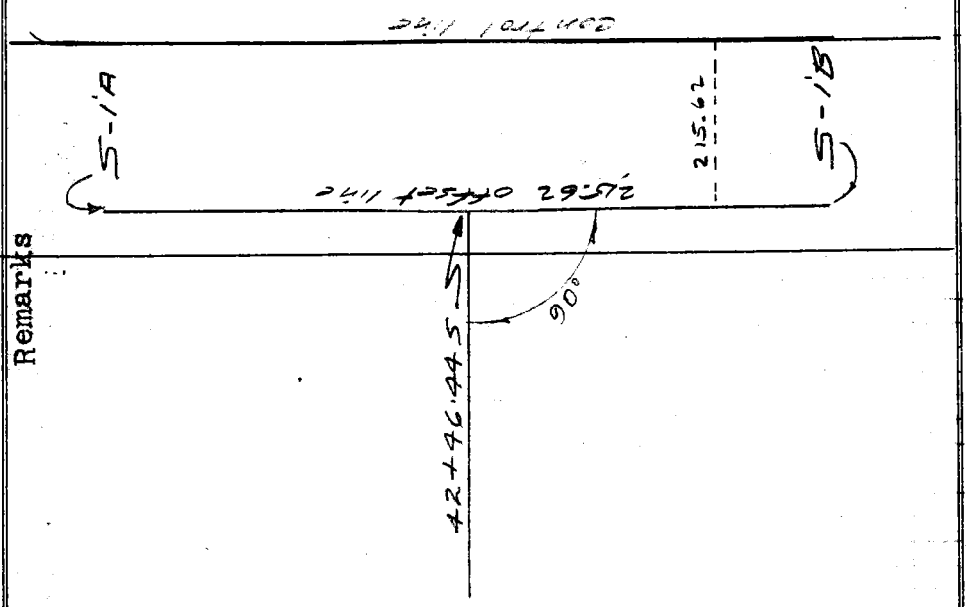
LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

Profile No.	Notes Red. CWH	Plotted CWH	Job No. 030002	Division No. 10	F. B. 2801 Pg. 277
	Date 9-14-59	Date 10-2-59	Survey of Beach Erosion Study		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Uhernet	Notes Ellen	Date 8-18-59
	Date 9-27-59	Date 10-5-59	Map No.	Indexed C. Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
S-1B	1		9:39	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

42+46.445

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

76L298 307 8-53

76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
	S-1B	21			90° 00		
		22			" "		
		23			" "		
		24			" "		
		25			" "		
		26			" "		
		27			" "		
		28		9:43	" "		
42+46.445							

F. B. 2801 Pg. 278 Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.
Survey by Harriet Notes Ellen Notes Chkd. JSH Checked JSH X-Sec.
Index C. Johnson Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

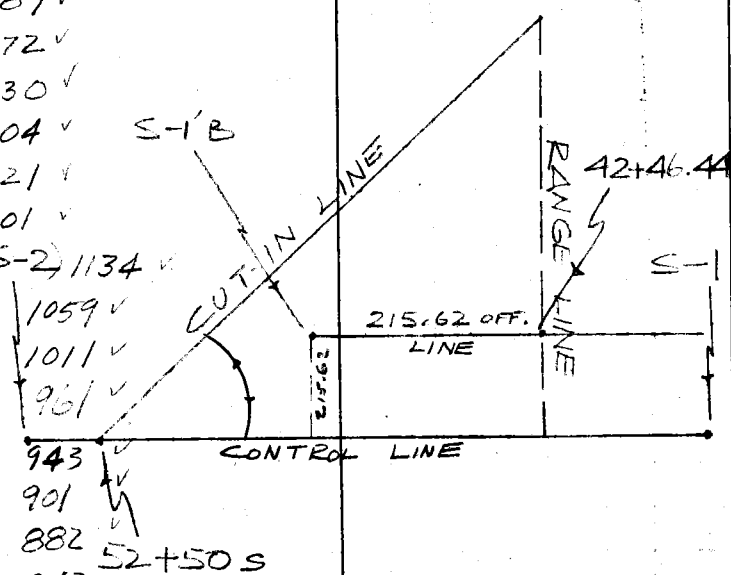
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
52+50 S.	S-1	1	34.4	30.0	9 39	67° 31'	2416
		2	33.3	28.9		66° 08'	2260
		3	32.4	28.0		64° 42'	2116
		4	32.3	27.9		63° 32'	2009
		5	31.8	27.4		62° 16'	1902
		6	31.4	27.0		60° 46'	1787
		7	30.7	26.3		59° 07'	1672
		8	30.3	25.9		56° 50'	1530
		9	29.5	25.1		54° 32'	1404
		10	28.4	24.0		52° 53'	1321
		11	27.1	22.7		50° 13'	1201
		12	25.8	22.4		48° 36'	(S-2) 1134
		13	24.3	19.9		46° 38'	1059
		14	22.3	17.9		45° 18'	1011
		15	21.4	17.0		43° 52'	961
		16	20.0	15.6		43° 20'	943
		17	19.0	14.6		42° 02'	901
		18	17.9	13.5		41° 24'	882
		19	16.8	12.4		40° 08'	843
		20	15.6	11.2		39° 14'	817

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.4
TIDE = -5.0
-4.4



Profile No. ____ Date 9-24-59 Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 279
X-Sec. No. ____ Date 9-29-59 Notes Chkd. JSH Checked JSH Date 10-5-59 Survey of BEACH EROSION STUDIES Survey by CHAKKIEL Notes R.L.S. Date 8-18-59
Map No. ____ Index C. Johnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 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. 2801 Pg. 280 | Job No. 0300.02 Division No. 10 Notes Red. CWH Plotted CWH
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No. Profile
Survey by HARRIET STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 9-26-59 Date 10-5-59 No.

STATION		B. S.	H. I.		F. S.	ELEV.			Remarks
Inst. At	Sight On	# Rec.	Depth Adj.		Time	Hor. Ang.			
		21	14.7	10.3		38° 05'	784		ADJUSTMENTS
		22	13.2	8.8		37° 20'	763		BOAT = +1.0
		23	11.5	7.0		36° 10'	731		ZERO = -0.4
		24	10.4	6.0		34° 51'	696		TIDE = -5.0
		25	9.3	4.9		34° 18'	682		-4.4
		26	8.6	4.2		33° 15'	656		
		27	8.0	3.6		32° 09'	629		
52 + 50 S.	S-1	28	7.2	2.8	9 44	31° 02'	602		

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 32+96.44	Sight on 37+46.44	
		19 79			DATUM MEAN LOWER LOW WATER	INSHORE 37+46.44 S.	
T.P.	4 64	19 57	-8 6	14 9			
			4 9	14 7	2.5 22 OFFSET LINE		ADD OFFSET
			2 2	17 4	39° L.		177R
			4 4	14 7		100° R	316R
			6 9	12 7		130° R	348R
			5 9	10 7		193° R	409R
			9 2	10 5		200° R	416R
T.P.	0 7	6 5	5 5	5 2		23[illegible] R	447R
			1 8	4 7	25° 32'	239	455
			5 7	0 8	31 07	302	518
			7 6	-1 1	35 30	357	573
			9 2	-2 7	39 27	411	627
			10 4	-3 9	41 33	443	659
			11 8	-5 3	43 03	467	683
			12 8	-6 3	44 43	495	711

Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 10 F. B. 2801 Pg. 281
No. Date 9-24-59 Date 10-2-59 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date [illegible] Date [illegible] Map No. Indexed C. Johnson Date

F. B. 2801 Pg. 282 | Job No. 0700-02 | Division No. 10 | Notes Red. | Plotted | Profile

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

Survey by C. Johnson | Notes LINO | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

76L298 307 8-53

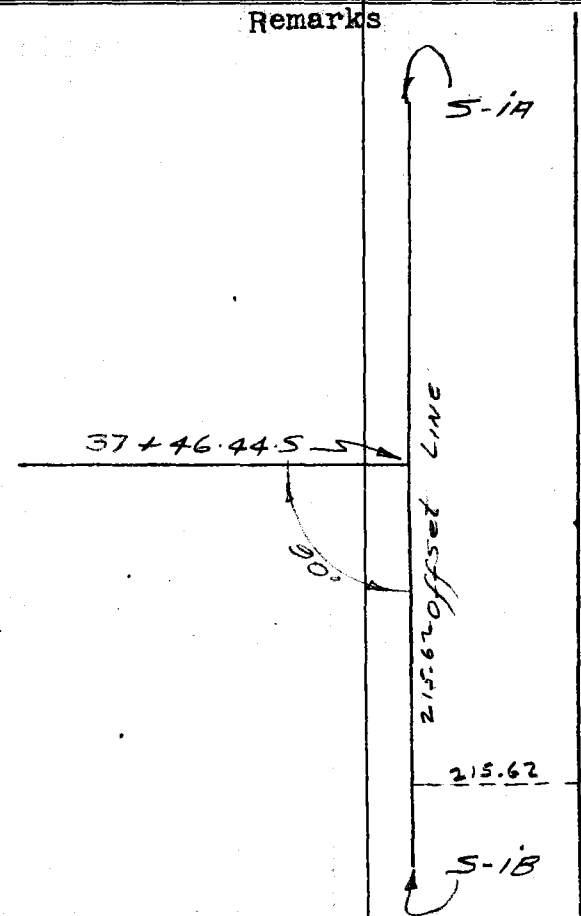
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
S-1B	1		10:09	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	

37+46.44.5



Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 283
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Charriet Notes Ellen Date 8-18-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed C. Johnson

F. B. 2801 Pg. 284 Job No. 0300-02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by VHarriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed [redacted] Date Date 9-29-59 Date 10-5-59 No.

37+46.44 5

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight On	#	Color	Time	Hor. Ang.		Remarks
5-18	21			90°00		
	22			"		
	23		10:13	"		

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

76298 S & E #307—7-55

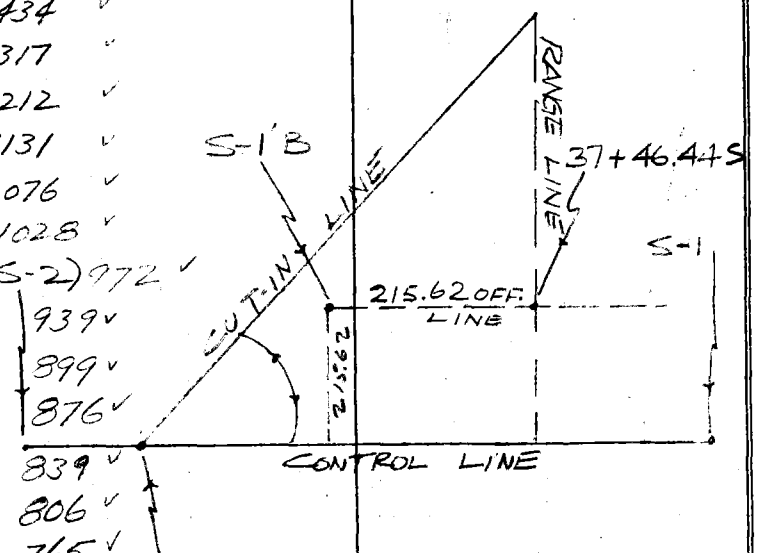
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
52+50 S.	S-1	1	31.8	27.6	10 09	52° 34'	1959	
		2	31.2	27.0		50° 50'	1842	
		3	30.7	26.5		49° 04'	1730	
		4	30.5	26.3		47° 27'	1634	
		5	30.0	25.8		45° 31'	1527	
		6	29.4	25.2		43° 43'	1434	
		7	28.5	24.3		41° 17'	1317	
		8	27.3	23.1		38° 57'	1212	
		9	26.1	21.9		37° 00'	1131	
		10	24.9	20.7		35° 39'	1076	
		11	23.4	19.2		34° 25'	1028	
		12	21.7	17.5		32° 56'	(S-2) 972	
		13	20.4	16.2		32° 03'	939	
		14	19.3	15.1		30° 56'	899	
		15	18.2	14.0		30° 17'	876	
		16	17.2	13.0		29° 13'	839	
		17	15.9	11.7		28° 13'	806	
		18	14.1	9.9		27° 00'	765	
		19	12.2	8.0		26° 18'	741	
		20	10.4	6.2		25° 12'	707	

ADJUSTMENTS
BOAT = +1.0
ZERO = -0.5
TIDE = -4.7
-4.2



Profile Notes Red. CWH Plotted CWH Job No. 030002 Division No. 10 F. B. 2801 Pg. 285
No. Date 7-9-59 Date 10-2-59 Survey of PLACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by UHARRIET Notes K.L.S. Date 8-18-59
No. Date 9-29-59 Date 10-5-59 Map No. Index C. Johnson

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.8	4.6		24° 20'	678	ADJUSTMENTS
		22	7.6	3.4		23° 11'	642	BOAT = +1.0
		23	6.6	2.4	10 13	21° 44'	599	ZERO = -0.5
								TIDE = -4.7
								-4.2
52+50 S.	S-1							

F. B. 2801 Pg. 286 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.
Survey by C. HARRIET Notes STRADER Notes Chkd. JSH Checked JSH X-Sec.
Indexed Date Date 9-29-59 Date 10-5-59 No.

76298 S & E #307—7-55

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 37+46 44	Sight on 32+46 44	
		19 5[illegible]			DATUM MEAN LOWER LOW WATER	INSHORE 32+46.44	
	413	20 04	3 66	15 9[illegible]			
			4[illegible]	[illegible]	215.62 OFFSET LINE		ADD OFFSET
			1[illegible]	18 [illegible]	36° [illegible] FORCE LINE		180R
			[illegible]	14 [illegible]		100[illegible]	316R
			7 5	[illegible]		19[illegible]	412R
			5[illegible]	[illegible]		200 [illegible]	416R
			[illegible]	[illegible]		21[illegible]	430R
[illegible]	0 9	4 1	16[illegible]	[illegible]		[illegible]	467R
			+0 6	4 7	26° 17'	247	463
			5 2	-1 1	31 52	311	527
			6 9	-2 8	35 49	361	577
			8 2	-4 1	39 20	410	626
			10 0	-5 9	42 06	452	668
			11 2	-7 1	43 40	477	693

Profile No. ____ Notes Red CWH Date 9-24-59 Plotted CWH Date [illegible] Job No. 0300[illegible] Division No. 10 Survey of [illegible]
X-Sec. No. ____ Notes Chkd. JSH Date [illegible] Checked JSH Date [illegible] Survey by Kind Date [illegible] Notes Kind Date 8-18-59
Date 9-24-59 Date [illegible] Map No. ____ Indexed C. Johnson Date ____

F. B. 2801 Pg. 287

F. B. 2801 Pg. 288 Job No. 0700.02 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 9-24-59 Date 10-2-59 No.

Survey by LHO Notes LHO Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

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

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

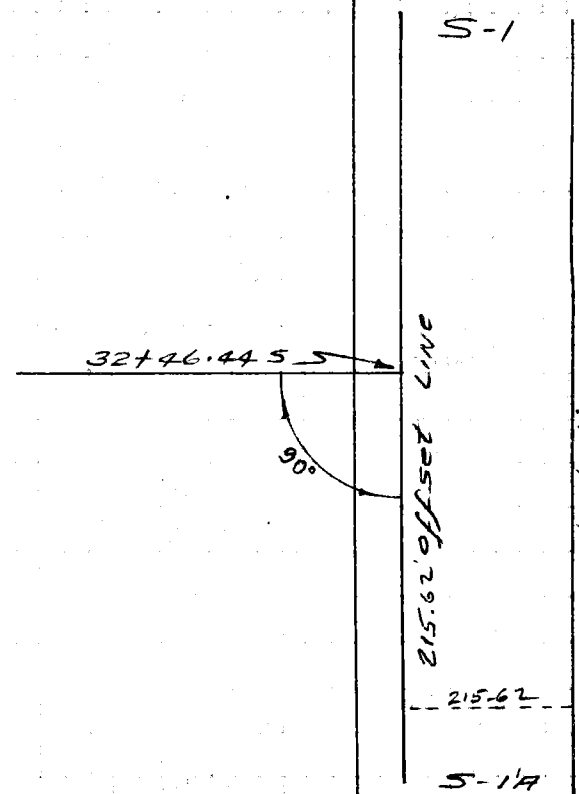
76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
S-1'A	1		10:29	90° 00	
	2			" "	
	3			" "	
	4			" "	
	5			" "	
	6			" "	
	7			" "	
	8			" "	
	9			" "	
	10			" "	
	11			" "	
	12			" "	
	13			" "	
	14			" "	
	15			" "	
	16			" "	
	17			" "	
	18			" "	
	19			" "	
	20			" "	



32+46.44 S

Profile
Notes Red. CWH Plotted CWH Job No. 03000 Division No. 10 F. B. 2801 Pg. 289
No. Date 9-24-59 Date 10-2-59 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Whannet Notes Ellen Date 8-18-59
No. Date 9-29-59 Date 10-5-59 Map No. Indexed Date

F.B. 2801 Pg. 290 Job No. 030002 Division No. 10 Notes Red. CWH Plotted CWH Profile

Survey of Beach Erosion Study Date 9-24-59 Date 10-2-59 No.

Survey by Wharriet Notes Eller Notes Chkd. JSH Checked JSH X-Sec.

Indexed C. Johnson Date Date 9-29-59 Date 10-5-59 No.

32+46.44.5

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
S-1A	21			90° 00		
	22			" "		
	23			" "		
	24			" "		
	25		10 33	" "		

76295 S & E #307—7-55

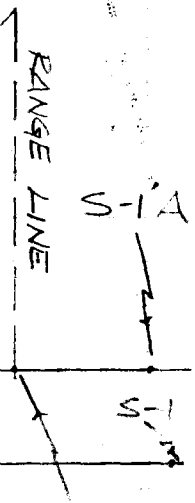
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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 No. 10 F. B. 2801 Pg. 291
Notes Red. CWH Plotted CWH Job No. 03000 Project No. 10
Date 4-21-55 Date 4-25-55 Survey of REACH EROSION STUDIES
X-Sec. Notes Chkd. JSH Checked JSH Survey by CHARRETTE & L.S. Date 8-18-55
No. Date 9-26-55 Date 9-26-55 Map No. Index C. Johnson

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		ADD OFFSET	Remarks
47+46.44 S.	S-1A	1	33.0	29.1	10 29	55° 54'	2216	2432	ADJUSTMENTS
		2	32.3	28.4		54° 05'	2072	2288	BOAT = +1.0
		3	31.5	27.6		51° 28'	1884	2100	ZERO = -0.5
		4	30.9	27.0		48° 52'	1719	1935	TIDE = -4.4
		5	30.5	26.6		46° 04'	1557	1773	-3.9
		6	30.0	26.1		44° 16'	1463	1679	
		7	29.6	25.7		41° 42'	1337	1553	
		8	29.1	25.2		39° 30'	1236	1452	
		9	28.5	24.6		36° 45'	1121	1337	
		10	27.9	24.0		34° 43'	(S-1 B) 1040	1256	
		11	26.6	22.7		32° 37'	960	1176 1127	
		12	25.6	21.7		31° 15'	911 (47+46.44S)		CUT-IN LINE
		13	24.4	20.5		29° 42'	855	1071	
		14	23.2	19.3		28° 18'	807	1023	
		15	21.6	17.7		26° 46'	756	972	215.62 OFF. LINE
		16	19.9	16.0		25° 27'	714	930	
								CONTROL LINE	
		17	18.1	14.2		24° 08'	672	888	
		18	16.7	12.8		22° 43'	629	845	
		19	15.1	11.2		21° 32'	(S-2) 593	809	
		20	13.8	9.9		20° 37'	564	780	



F. B. 2801 Pg. 292 | Job No. 030003 | Division No. 10 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 9-24-57 | Date 10-[illegible]-57

Survey by Uharrist | Notes R. L. Strader | Notes Chkd. JSH | Checked [illegible]

Indexed C. Johnson | Date | Date 9-29-57 | Date [illegible]

47+46.44 S.

S-1A

21	12.5	8.6	19° 37'	534	750	
22	11.2	7.3	18° 46'	570	726	
23	9.8	5.9	17° 52'	483	699	
24	8.1	4.2	16° 32'	446	662	
25	7.3	3.4	16° 00'	431	647	
		10.34				

BOAT = +1.0

ZERO = -0.5

TIDE = -4.4

-3.9