d by

k

Survey of Beach Erosion Studies F. B. 2806 PG. 5
IN 0300.02 Tape Std. °F
Surveyed by Uherriet
Notes Uherriet Date 7-26-60
Indexed H. E. Ott

BEACH EROSION STUDIES

JULY 1960

J.N. 0300.02

STA. 225+00S TO STA. 424+50S

F. F.B. 2100

arriet		Lind	Sappel
erson		Goodwin	Smiley
ks		Wallace	Tuxford
ith, N.		Caro	Lieber
er		Masuda	Hinzman
boom			Blanchard
mmen-Sounder			
ernaker-Skipper			

[redacted] microfilmed. March 85

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F. B. 2806 PG. 6

Notes Ck'd by J.S.H.	Survey of Beach Erosion Studies
MAP No.	JN 0300.02 Tape Std °F
Office Work J.S.H	Surveyed by Unarriet
Checked C.W.H	Notes Blanchard Date 7-26-60
Date 8-5-60	Indexed H. E. OTT

F. B. 2806 PG. 7

TIDE GAUGE READINGS

JULY 26, 1960

DATUM - MLLW

TIME - PST.

TIME PST.		GAUGE READING M.L.L.W.
5:00	AM	04 ft
5:30		05
6:00		08
6:30		12
7:00		18
7:30		22
8:00		27
8:30		32
9:00		37
9:30		39
10:00		43
10:30		45
11:00		46

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700 Los Angeles County Engineering Bldg.

76F309S SBE #247 11-58

F. B. 2806 Pg. 8

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76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 220+00		SIGHT ON 225+00
		[illegible]			DATUM MEAN LOWER LOW WATER		225+00 INSHORE
[illegible]	[illegible]	21 [illegible]	[illegible]	[illegible]			
220+00			[illegible]	16 7	CONTROL		LINE
			4 9	17 0	[illegible]		
			5 3	16 6			4.5' RT. FRONT WALK
			5 3	16 6			100' RT. TOP BR. E.
			9 1	12 8			160' RT. [illegible] E.
			10 6	11 3			200' RT. [illegible]
T.P.			10 99	10 87	T.P.		250' RT. TOP BR E.
	1 38	12 25					
225+00			7.5	4.7	31° 09'	302'	Mean tide line
T.P.	0 95	6.25	6.95	5.30	T.P.		
225+00			5.5	0.7	35° 11'	352'	
"			7 1	-0.3	40° 20'	425'	
"			8 7	-2.5	45° 00'	500'	
"			10.5	-4.3	47° 42'	550'	
"			12 5	-6.3	51° 06'	620'	
			14 2	-8.0	54° 04'	690'	
			16 0	-9.8	55° 51'	737'	

Profile No. Notes Red. J.S.H. Plotted [illegible] Job No. [illegible] Division No. [illegible]
X-Sec. No. Date 8-8-60 Date 10-19-60 Survey of BERTH EXPOSURE STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-25-60
Date 8-9-60 Date 10-20-60 Map No. Indexed H. E. Ott Date
F. B. 2600 Pg. 9

F. B. 2806 Pg. 10 | Job No. 0300-02 | Division No. 11 | Notes Red | Plotted | Profile

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

Survey by LIND | Notes J. C. GOODWIN | Notes Chkd. | Checked | X-Sec.

Indexed H. E. OTT | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.
225+00				

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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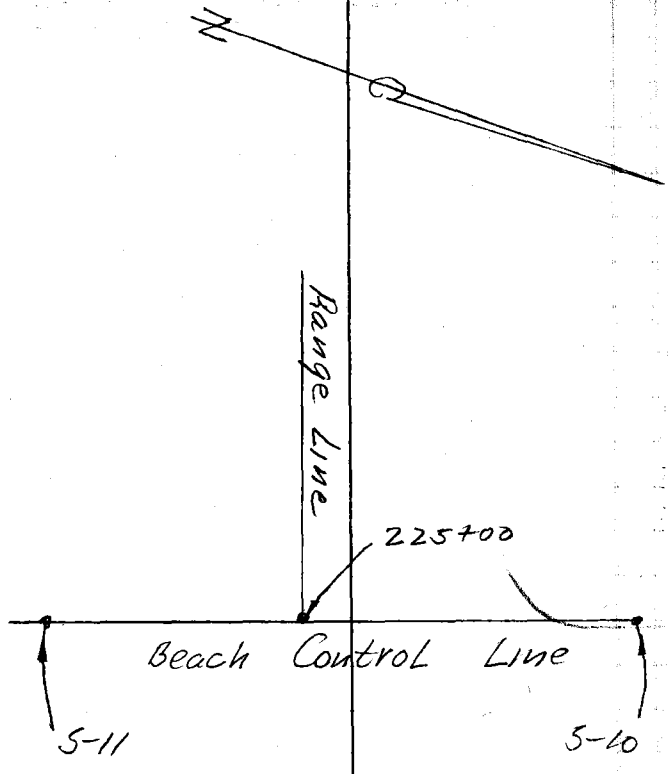
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
225+00	S-11	1			503	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
No. Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Study
X-Sec. Notes Chkd. JSH Checked JSH Survey by Hanover Notes Lebook Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. Indexed H. E. OH Date
F.B. 2806 Pg. 11

F.B. 2806 Pg. 12 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 No. _____

Survey by Vhavriet Notes Teehoom Notes Chkd. J.S.H. Checked J.S.H X-Sec.

Indexed ~~H. E. OTT~~ Date _____ Date 8-23-60 Date 10-20-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 225+00					
Sight On 5-11					
#	21				
Rec.	22				
Adj.	23				
	24				
Depth					
Time			506		
Hor. Ang.				60°00'	

76L-298 CE 307 11-58

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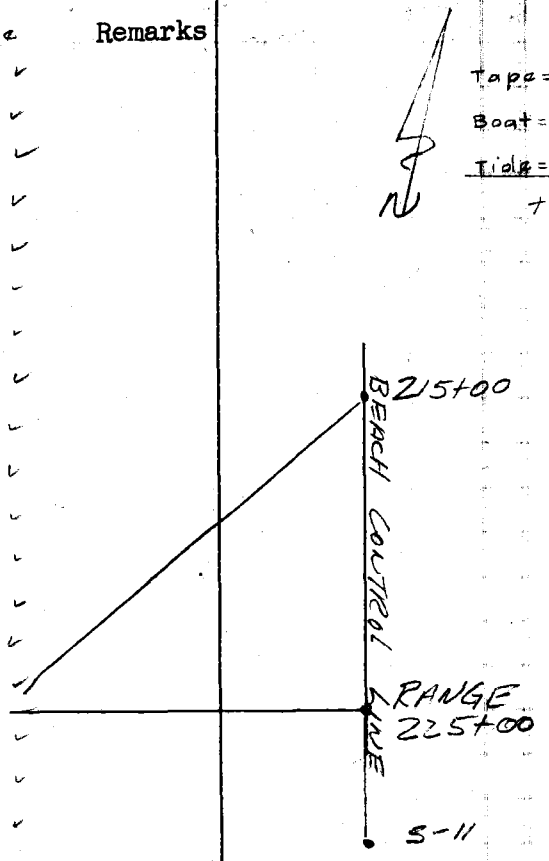
Profile No. _____ X-Sec. _____ No. _____ Date 8-25-60 Notes Red. CWH Plotted CWH Date 10-19-60 Notes Chkd. JSH Checked JSH Date 8-23-60 Date 10-20-60 Job No. 0360.02 Division No. 11 Survey of BEACH EROSION STUDIES Survey by WHACKET Notes SMITH Date 7-26-60 Map No. _____ Index 4 & OH

F.B. 2866 Pg. 13

STATION Inst. At	Sight On	#	Depth Rec.	Depth Adj.	B.S.	H.I.	Time	F.S.	ELEV.	Hor. Ang.	Distance	Remarks
215+00	S-11	1	28.4	29.7			5-03			61°-33'	1,846	
		2	27.5	28.8						61°-07'	1,813	
		3	27.2	28.5						60°-09'	1,743	
		4	25.3	26.6						58°-56'	1,660	
		5	25.2	26.5						57°-55'	1,595	
		6	23.8	25.1						57°-05'	1,545	
		7	23.9	25.2						56°-12'	1,494	
		8	23.2	24.5						55°-04'	1,432	
		9	22.3	23.6						53°-53'	1,371	
		10	21.0	22.3						52°-34'	1,306	
		11	19.8	21.1						51°-18'	1,248	
		12	18.8	20.1						49°-51'	1,185	
		13	17.4	18.7						48°-27'	1,128	
		14	16.3	17.6						47°-18'	1,084	
		15	15.1	16.4						46°-18'	1,046	
		16	13.9	15.2						44°-57'	998	
		17	12.6	13.9						43°-48'	959	
		18	11.4	12.7						42°-48'	926	
		19	10.5	11.8						41°-38'	889	
		20	9.5	10.8						40°-20'	849	

Tape = +.7
Boat = +1.0
Tide = -.4
+1.3



F. B. 2806 Pg. 14 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No.

Survey by HARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60 No.

76L-298 CE 307 11-58

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STATION	B. S.	H. I.	F. S.	ELEV	Remarks
215+00					
5-11					
Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.	Distance
		21 7.8 ✓ 9.1		39°-10	815 ✓
		22 7.2 ✓ 8.5		37°-31	768 ✓
		23 6.1 ✓ 7.4		35°-58	726 ✓
		24 4.9 ✓ 6.2 ✓	5-06	32°-37	690 ✓
					Tape = +.7 ✓
					Boat = +1.0
					Tide = -.4 ✓
					+1.3 ✓

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 215+00	Sight on 220+00
		21 86			DATUM MEAN LOWER LOW WATER	220+00 INSHORE
T.P.	4 79	21 47	5 18	16 68		
220+00			5 2	[illegible]	CONTROL LINE	
			4 9	16 6	[illegible]	
			5 3	16 2		65' RT. [illegible]
			5 4	16 1		105' RT. TOP [illegible]
			9 4	12 1		170' RT. [illegible]
			10 6	10 9		200' RT. [illegible]
T.P. [illegible]			10 74	10 75		250' RT. TOP [illegible]
	147	12.20				
220+00			7. 5	4.7	36°38'	296'	Mean tide line
T.P.	015	3.88	8 47	3.73	T.P.	
220+00			32	0.7	37°20'	381'
"			43	-0.4	41°44'	446'
"			60	-2.1	45°49'	513'
"			84	-4.5	48°31'	566'
"			100	-6.1	51°04'	619'
"			110	-7.1	53°55'	684'
"			125	-8.6	55°54'	739'

Profile Notes Red J.S.H. Plotted CWH Job No. Division No. 11
No. Date 8-8-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. CWH Checked J.S.H. Survey by Notes Date
No. Date 8-9-60 Date 10-20-60 Map No. Indexed H. E. OH Date
F. B. 2696 Pg. 15

F. B. 2806 Pg. 16 | 0300.02

Job No. | Division No. 11 | Notes Red. J.S.H. | Plotted C.W.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-9-60 | Date 10-19-60 | No.

Survey by LINO | Notes J.C. GOODWIN | Notes Chkd C.W.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-9-60 | Date 10-20-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
220+00		21.47 3.83	14.0	(-10.1) 5.70 49'	T @ 215+03 795'

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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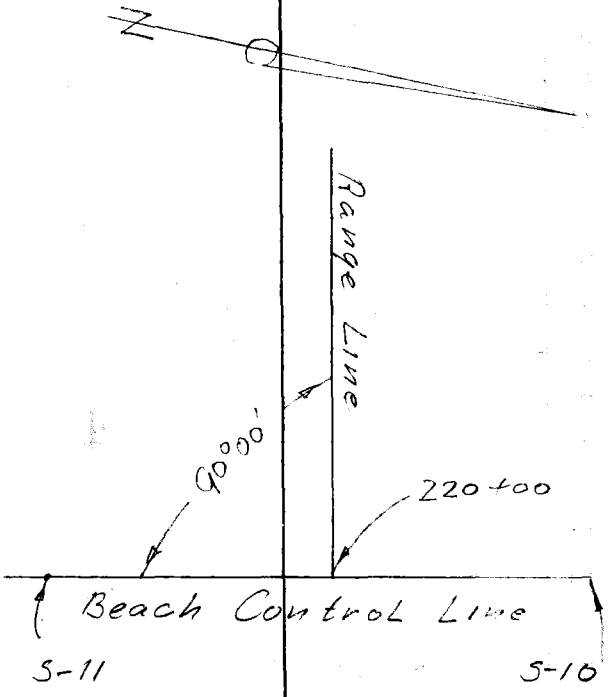
STATION		B.S.	H.I.	F.S.	ELEV.
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.
		1		517	90° 00'
		2			"
		3			"
		4			"
		5			"
		6			"
		7			"
		8			"
220+00	S-11	9			"
		10			"
		11			"
		12			"
		13			"
		14			"
		15			"
		16			"
		17			"
		18			"
		19			"
		20			"

Remarks



Profile Notes Red CWH Plotted CWH Job No. Division No. 11
Date 8-15-60 Date 10-18-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Unknown Notes Tocker Date 1-26-60
No. Date 8-23-60 Date 10-20-60 Map No. Indexed by OK Date
030002
F.B. 280 Pg. 17

F.B. 2806 Pg. 18 | Job No. 030002 | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-15-60 | Date 10-19-60 | No.

Survey by Uharriet | Notes Teeboom | Notes Chkd. J.S.H. | Checked J.S.H | X-Sec.

Indexed | Date | Date 8-23-60 | Date 10-20-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
220+00					
S-11					
	Inst. Sight On				
	At				
	Depth # Red. Adj.				
	21				
	22				
	23				
	24				
	25		5 20	"	
	Time Hor. Ang.				
	90° 00'				
	"				
	"				
	"				
	"				

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76L-298 CE 307 11-58

78L-298 CE 307 11-58

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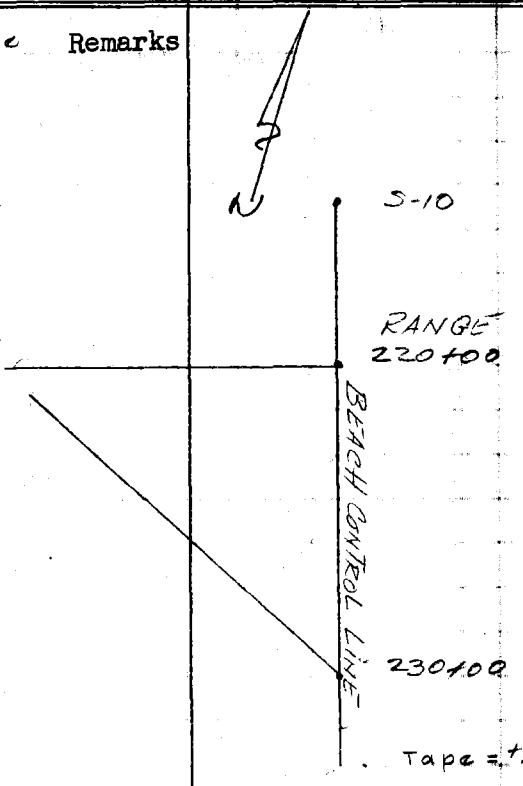
Profile No. ____ X-Sec. No. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2816 Pg. 19
Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
Notes Chkd JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-60
Data 8-23-60 Date 10-20-60 Map No. ____ Indexed H. E. Ott Date ____

STATION Inst. At	Sight On	B.S.	H.I. Depth #	Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
230+00	S-10		1	27.5	28.4	5-17	61°-10'	1,817	
			2	27.2	28.1		60°-27'	1,764	
			3	26.4	27.3		59°-48'	1,718	
			4	26.1	27.0		58°-51'	1,655	
			5	25.7	26.6		57°-40'	1,580	
			6	24.6	25.5		56°-47'	1,527	
			7	23.8	24.7		56°-05'	1,487	
			8	22.9	23.8		55°-04'	1,432	
			9	21.8	22.7		53°-50'	1,368	
			10	21.2	22.1		52°-55'	1,323	
			11	20.5	21.4		51°-42'	1,266	
			12	18.8	19.7		50°-24'	1,209	
			13	17.5	18.4		49°-02'	1,152	
			14	16.6	17.5		47°-34'	1,094	
			15	15.5	16.4		46°-16'	1,045	
			16	14.4	15.3		45°-07'	1,004	
			17	13.4	14.3		43°-17'	942	
			18	11.6	12.5		42°-02'	901	
			19	10.9	11.8		41°-07'	873	
			20	9.8	10.7		39°-34'	826	



Tape = +.3
Boat = +1.0
Tide = -.4
+.9

76L-298 CE 307 11-58

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F.B. 2806 Pg. 20 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by HARRIET Notes SMITH N Notes Chkd. J.S.H. Checked U.S.H.
Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
		21	8.5	9.4		34°28	794		Tape = +.3
		22	8.0	8.9		37°30	767		Boat = +1.0
		23	7.1	8.0		36°00	727		Tide = -.4
		24	6.3	7.2		35°18	708		+.9
230+00	5-10	25	5.9	6.8	5-20	34°09	678		

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 220+00	SIGHT ON 215+00
		31 47			DATUM MEAN LOWER LOW WATER	215+00 INSHORE
	4 62	[illegible]	5 50	1097		
215+00			[illegible]	[illegible]	CONTROL	LINE
			5 0	15 6	13.5' LT. [illegible]	
			[illegible]	[illegible]		[illegible]
			7 4	13 2		100' RT. [illegible]
			9 [illegible]	11 0		[illegible]
T.P.			9 87	12 72	T.P.	245' RT. [illegible]
	5 00	20 93	5 06	15 53		
T.P.			4 73	15 60	*	
T.P.	0 46	11 18		10 72	T.P. above	
			65	47		292' R. Mean tide line
T.P.	0 24	3.67	7 75	3.43	T.P.	
215+00			33	04	36°13'	366'
"			48	-1.0	41°07'	436'
"			57	-2.0	45°04'	501'
"			79	-4.2	48°35'	564'
"			94	-5.7	50°51'	614'
"			105	-6.3	53°47'	683'

Profile Notes Red J.S.H. Plotted C.W.H. Job No. Division No.
No. Date 8-8-60 Date 10-19-60 Survey of BEACH & HOSKEN STUDIES
X-Sec. Notes Chkd. C.W.H. Checked J.S.H. Survey by Notes Date 7-28-60
No. Date 8-9-60 Date 10-20-60 Map No. Indexed H. E. O'N. Date

F. B. 1116 Pg. 21

F. B. 7876 Pg. 22 | 0300.02

Job No. | Division No. 11 | Notes Red J.S.H. | Plotted C.W.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-8-60 | Date 10-19-60 | No.

Survey by LIND | Notes J.C. GOODWIN | Notes Chkd C.W.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-9-60 | Date 10-20-60 | No.

STATION	S. S.	H. I.	F. S.	ELEV.	
215+00					
		8.67			
			1.23		
			1.42		
				7.44	
				7.60	
					56°24'
					58°26'
					751.1'
					814.1'
7 37	220+00				
					Sight on 215+00

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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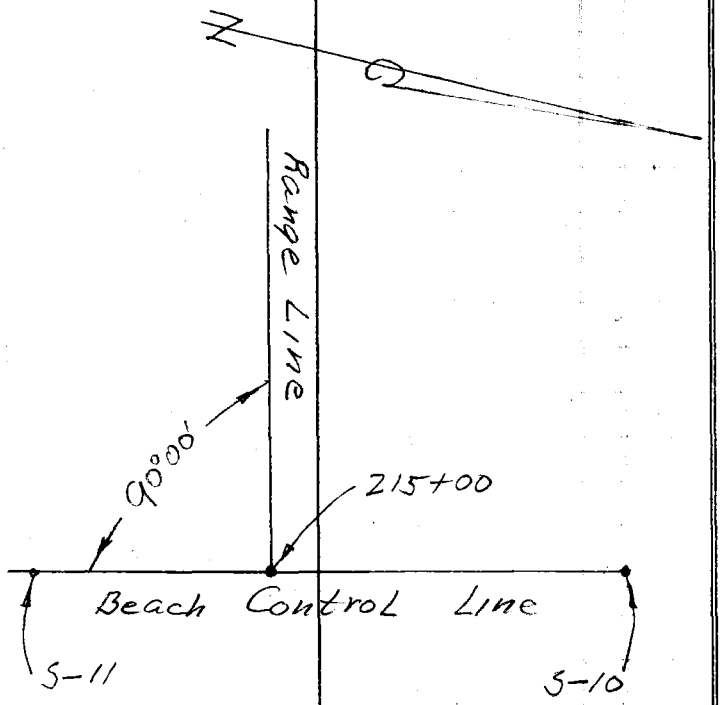
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
215+00	S-11	1		549	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ Notes Red CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2806 Pg. 23
X-Sec. No. ____ Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Wharrel Notes Tabulated Date 7-26-60
Date 8-25-60 Date 10-20-60 Map No. ____ Inked H. E. Gill Date ____

F. B. 2806 Pg. 24 | Job No. 0300.02 | Division No. 11 | Notes Red. CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-15-60 | Date 10-19-60 | No.

Survey by Uharriet | Notes Teeboom | Notes Chkd. J.S.H | Checked J.S.H. | X-Sec.

Indexed H. E. Ott | Date | Date 8-23-60 | Date 10-20-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV	Remarks
Inst. At 215+00					
Sight On S-11					
	# 20	Depth			
	21	Rec. Adj.			
	22		Time 552	Hor. Ang. 90°00' " "	

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76L-200 CE 307 11-58

761-298 CE 307 11-58

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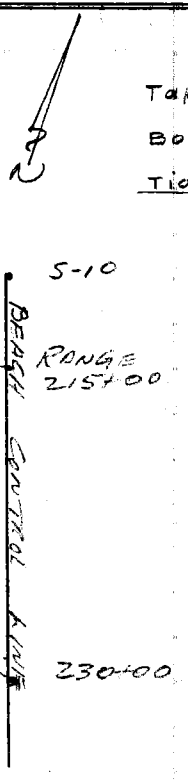
Profile No. ____ Notes Red. CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 25
X-Sec. No. ____ Data 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. ____ Indexed [illegible] Date ____

STATION Inst. At	Sight On	B.S.	H.I. Depth #	Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
230+00	5-10		1	26.9	27.3	5-49	48°-10	1,676	
			2	25.8	26.2		46°-41	1,591	
			3	24.7	25.1		45°-16	1,516	
			4	23.6	24.0		43°-46	1,437	
			5	22.7	23.1		42°-[illegible]	1,368	
			6	21.5	21.9		40°-16	1,293	
			7	20.3	20.7		39°-36	1,241	
			8	19.6	20.0		38°-28	1,191	
			9	18.7	19.1		36°-57	1,128	
			10	17.1	17.5		35°-[illegible]	1,079	
			11	16.3	16.7		34°-[illegible]	1,035	
			12	15.0	15.4		33°-[illegible]	989	
			13	13.7	14.1		32°-10	944	
			14	12.7	13.1		31°-14	909	
			15	11.8	12.2		29°-54	863	
			16	10.6	11.0		29°-10	837	
			17	9.9	10.3		28°-35	812	
			18	9.1	9.5		27°-35	783	
			19	8.3	8.7		26°-54	761	
			20	7.8	8.2		26°-06	735	



Tape = +.1
Boat = +1.0
Tide = -.7
+.4

76L-298 CE 307 11-58

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F.B. 2806 Pg. 26 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by UHARRIET Notes SMITH IV Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
		21	6.8	7.2		25°16'	708		Tape = +.1
230+80	S-10	22	6.1	6.5	5-52	24°23	680		Boat = +1.0
									Tide = -.7
									+.4

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST @ 205+00	SIGHT ON 210+00
T.P.	5 01	20 61		15 60	DATUM MEAN LOWER LOW WATER	210+00 INSHORE
	5 03	20 66	5 18	15 43		
210+00			5 3	15 5	CONTROL	LINE
			[illegible]	[illegible]	15' [illegible]	
			5 [illegible]	[illegible]		[illegible]
T.P.	4 [illegible]	[illegible]	4 87	15 77		
			[illegible]	[illegible]		
			7 6	[illegible]		
			[illegible]	15 5		
T.P.			11 59	8 11	T.P.	
	136	8.47				
210+00			4.8	47	29°12' 279'	Mean tide line
T.P.	100	3.79	668	2.79	T.P.	
210+00			34	0.4	35°36' 358'	
"			45	-0.7	40°57 429'	
"			70	-3.2	44°48' 497'	
"			8.5	-4.7	47°03' 537'	
"			105	-6.7	49°51 593'	
"			119	-8.1	52°38 655'	

Profile No. ____ Notes Red. JSH Plotted CWH Job No. ____ Division No. 1
Date 8-8-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. CWH Checked JSH Survey by ____ Notes ____ Date 7-76-62
Date 8-9-60 Date 10-20-60 Map No. ____ Indexed H. E. OTT Date ____
F. B. 1006 Pg. 27

F. B. 2806 Pg. 28 | Job No. 0300-02 | Division No. 11 | Notes Red. J.S.H. | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 8-8-60 | Date 10-19-60 | No. | X-Sec.

Survey by ~~H. E. OTT~~ LWD | Notes J.C. GOODWIN # 58 P.M. | Notes Chkd. CWH | Checked J.S.H.

Indexed | Date | Date 8-9-60 | Date 10-20-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
210+00		379	121	258	54.39	703'±
					734	207+00
					Right	210+00

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76L-298 S & E #307—1-56

76L-298 CE 307 11-56

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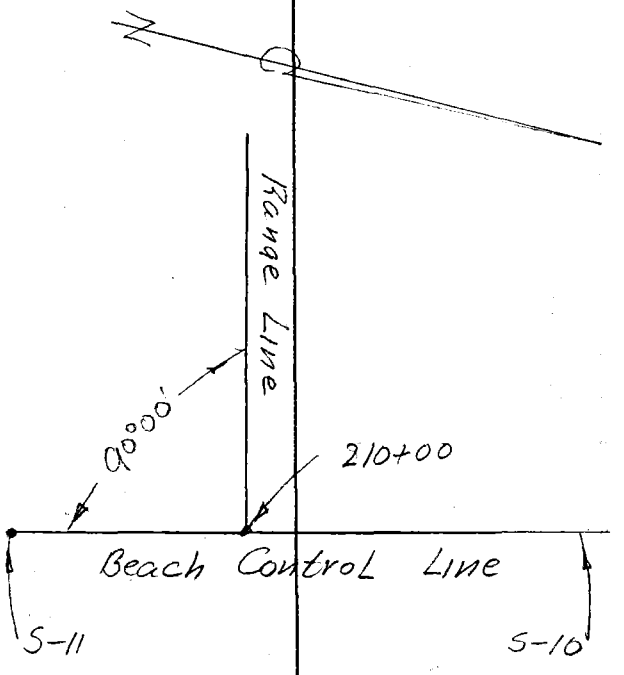
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		602	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
210+00	S-11	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. X-Sec. No.
Notes Red CWH Plotted CWH Job No. 03000.02 Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Phoenix Notes Taken Date 8-26-60
Date 8-23-60 Date 10-20-60 Map No. Indexed N. & OH Date
F. B. 2806 Pg. 29

76L-298 CE 307 11-58

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F.B. 2806 Pg. 30 Job No. 030002 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of Beach Erosion Studies Date 8-15-60 Date 10-12-60 No.
Survey by Dharrict Notes Teeboom Notes Chkd. JSH Checked JSH X-Sec.
Indexed H.E. Ott Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21				90° 00'		
		22				"		
		23				"		
		24				"		
		25				"		
		26				"		
		27			5 06	"		
210+00	5-11							

76L-298 CE 307 11-58

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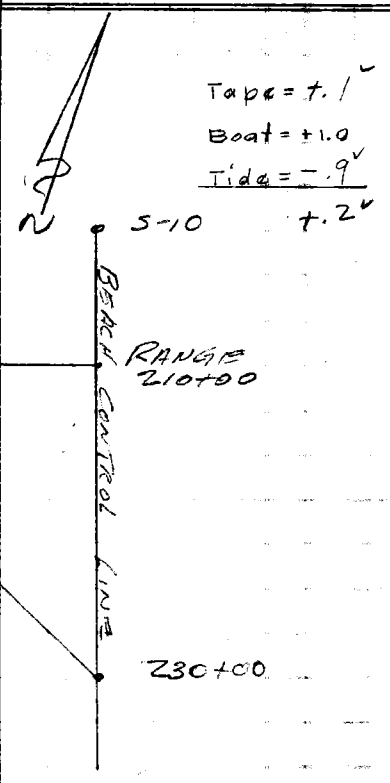
Profile No. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 31
X-Sec. No. ____ Date 8-15-60 Date 10-14-20 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-66
Date 8-23-60 Date 10-20-20 Map No. ____ Indexed H. E. OH Date ____

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	Time	ELEV.	Hor. Ang.	Distance	Remarks
230+00	5-10	1		29.2	29.4		6-02		43°-54'	1,924	
		2		28.4	28.6				42°-45'	1,848	
		3		27.5	27.7				41°-29'	1,768	
		4		26.5	26.7				40°-05'	1,684	
		5		25.6	25.8				38°-41'	1,602	
		6		24.9	25.1				37°-02'	1,508	
		7		24.2	24.4				35°-34'	1,430	
		8		22.8	23.0				34°-51'	1,392	
		9		21.8	22.0				32°-10'	1,258	
		10		21.1	21.3				30°-47'	1,192	
		11		20.1	20.3				29°-39'	1,138	
		12		18.8	19.0				28°-24'	1,082	
		13		16.6	16.8				27°-05'	1,022	
		14		15.6	15.8				26°-05'	980	
		15		14.8	15.0				25°-21'	948	
		16		13.9	14.1				24°-37'	916	
		17		13.1	13.3				23°-56'	888	
		18		12.2	12.4				23°-11'	856	
		19		11.4	11.6				22°-34'	832	
		20		10.6	10.8				21°-44'	798	



Tape = +.1
Boat = +1.0
Tide = -.9
+.2

76L-298 CE 307 11-58

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F.B. 2806 Pg. 32 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by HARRIET Notes SMITH IV Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. ON Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
		21	9.8	10.0		21°03'	770		Tape = +.1
		22	9.2	9.4		20°12'	736		Boat = +1.0
		23	8.3	8.5		[illegible]	706		Tide = -.9
		24	7.4	7.6		18°30'	670		+.2
230+00	5-10	25	6.9	7.1		17°46'	640		
		26	6.2	6.4		17°02'	612		
		27	5.8	6.0	6.06	16°24'	588		

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	EYE STA. @ 200+00	SIGHT ON 205+00
					DATUM MEAN LOWER LOW WATER	205+00 INSHORE
T.P.		21	4	16		
205+00			5 2	13 3	CONTROL LINE	
			4 8	16 7	18.5' RT.	
			5 4	13		
				12		100' RT.
				14 4		118' RT.
			0 0	11 5		
			5 6	15		200' RT.
			6 9	10 6		131' RT.
T.P.				9		
	056	10.0				
205+00			5.3	4.7		275 R. Mean Tide Line
T.P.	1	5.0	6.60	3.45	T.P.	
205+00			4.2	0.8	34°23'	342'
"			5.3	-0.3	39°10'	407'
"			6.7	-1.7	43°23'	473'
"			9.2	-4.2	47°13'	540'
"			10.5	-5.5	50°05'	598'

Profile No. Notes Red. Plotted Job No. Division No.
Date 8-8-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
X-Sec. No. Notes Chkd. Checked Survey by Notes Date 7-26-60
Date 8-9-60 Date 10-20-60 Map No. Indexed H. E. OTT Date
F. B. 1176 PG. 33

F. B. 2806 Pg. 34 | 0300-02

Job No. ____ Division No. 11 Notes Red. J.S.H. Plotted C.W.H. Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-19-60 No. ____

Survey by LWD H. E. OTT Notes J.C. GOODWIN & Notes Chkd. CWH Checked J.S.H. X-Sec.

Indexed ____ Date ____ Date 8-9-60 Date 10-20-60 No. ____

STATION	B. S.	H. I.	F. S.	ELEV.		
205+00					A 34 200+00	Sight on 205+00
"			124	(-7.4)	53.06'	
"			133	(-8.3)	55.53'	666'✓
			154	(-10.4)	57.53'	738'✓
						789'✓

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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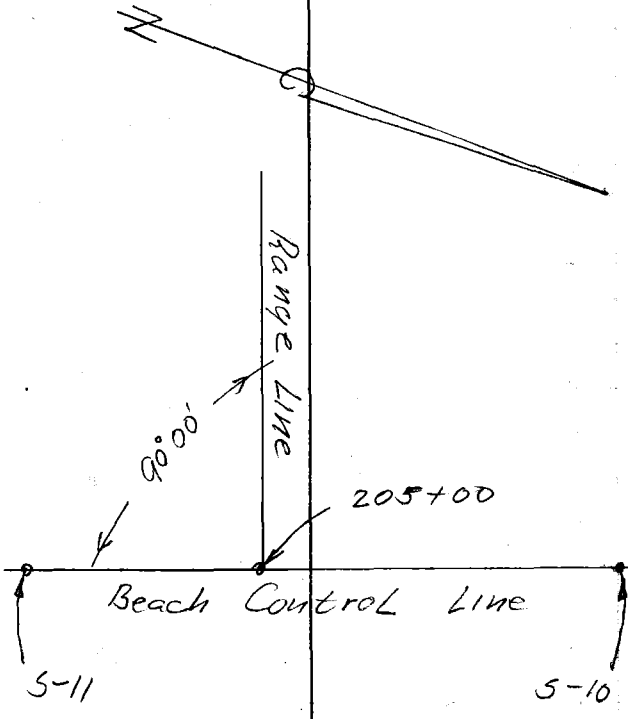
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		622	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
205+00	S-11	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. 0300002 Division No. 11
No. Date 8-15-60 Date 10-18-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7-26-60
No. Date 8-23-60 Date 10-20-60 Map No. Indexed H. E. Ott Date
F.B. 2006 Pg. 32

F.B. 2806 Pg. 36

0300.02

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
205+00					
5-11					

Inst. At Sight On

Depth Rec. Adj.

Time 6 24

Hor. Ang. 70° 00'

Do not extend notes this side of this line.

76L-286 CE 307 11-58

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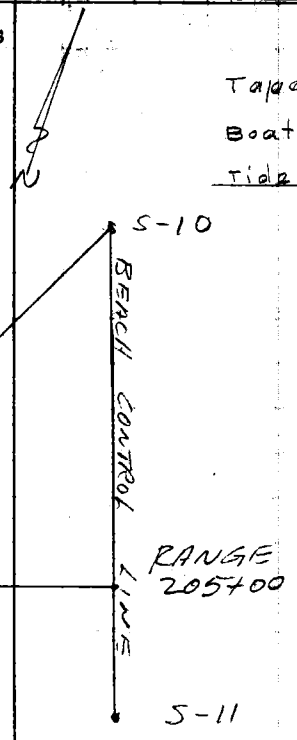
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 37
No. X-Sec. Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7 26 60
No. Date 8-23-60 Date 10-20-60 Map No. Inked [illegible] Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
S-10	S-11	1	27.3	27.3	6-22	51°-27'	1,694	
		2	26.5	26.5		50°-15'	1,623	
		3	25.7	25.7		48°-44'	1,539	
		4	25.2	25.2		47°-13'	1,459	
		5	24.3	24.3		46°-04'	1,401	
		6	23.7	23.7		—		
		7	22.8	22.8		42°-48'	1,250	
		8	21.0	21.0		40°-47'	1,165	
		9	19.8	19.8		39°-00'	1,093	
		10	17.9	17.9		37°-18'	1,029	
		11	17.1	17.1		36°-12'	988	
		12	15.8	15.8		34°-55'	942	
		13	14.1	14.1		33°-47'	903	
		14	13.0	13.0		32°-25'	857	
		15	11.5	11.5		31°-21'	822	
		16	10.2	10.2		30°-25'	792	
		17	9.2	9.2		29°-14'	756	
		18	8.2	8.2		27°-50'	713	
		19	7.8	7.8		26°-59'	687	
		20	6.9	6.9		25°-31'	644	

Tape = +.1'
Boat = +1.0
Tide = -1.1'
0'



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.

F.B. 2-806 Pg. 38 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by WHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
S-10	S-11		5.5	5.5	624	24-28	614		Tape = +1.1 Boat = +1.0 Tide = -1.1 0

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST @ 205+00	SIGHT ON 200+00
		21.47			DATUM MEAN LOWER LOW WATER	200+00 INSHORE
T.P.	[illegible]	[illegible]	[illegible]	16.6		
200+00			[illegible]	16.4	CONTROL LINE	
			4.8	16.7	12' LT. BIKE WALK	
			5.3	16.2		7.1' ST. [illegible]
			5.3	16.2		4.1' ST. [illegible]
			6.6	14.9		10' ST. [illegible]
			7.9	11.6		15' RT. [illegible]
			10.0	11.5		20' RT. [illegible]
			9.8	11.7		30' RT. [illegible]
T.P.			10.22	10.29	T.P.	
	1.14	11.43				
200+00			6.7	4.7	28° 37' 277'	Mean tide line
T.P.	2.20	5.59	8.04	3.39	T.P.	
200+00			5.1	0.5	35° 18' 354'	
"			6.0	-0.4	34° 18' 409'	
"			7.8	-2.2	43° 29' 477'	
"			9.8	-4.2	46° 35' 536'	
"			12.4	-6.8	49° 39' 586'	

Profile No. _____ Notes Red. J.S.H. Plotted C.W.H. Job No. _____ Division No. 6 F. B. 6 Pg. 39
Date 8-8-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
X-Sec. No. _____ Notes Chkd. [illegible] Checked J.S.H. Survey by [illegible] Notes [illegible] Date 7-26-60
Date 8-10-60 Date 10-20-60 Map No. _____ Indexed [illegible] Date _____

F. B. 2806 Pg. 40 | 0300-02

Job No. ____ Division No. 11 Notes Red. J.S.H. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-19-60 No. ____

Survey by LIND Notes J.C. GOODWIN Notes Chkd. CWH Checked J.S.H. X-Sec.

Indexed H. E. OM Date ____ Date 8-10-60 Date 10-20-60 No. ____

STATION	B. S.	H. I.	F. S.	ELEV.		
200+00		559	136	-8.0		
"			151	-6.5		
					644'±	
					698'±	
						Sight on 230+00

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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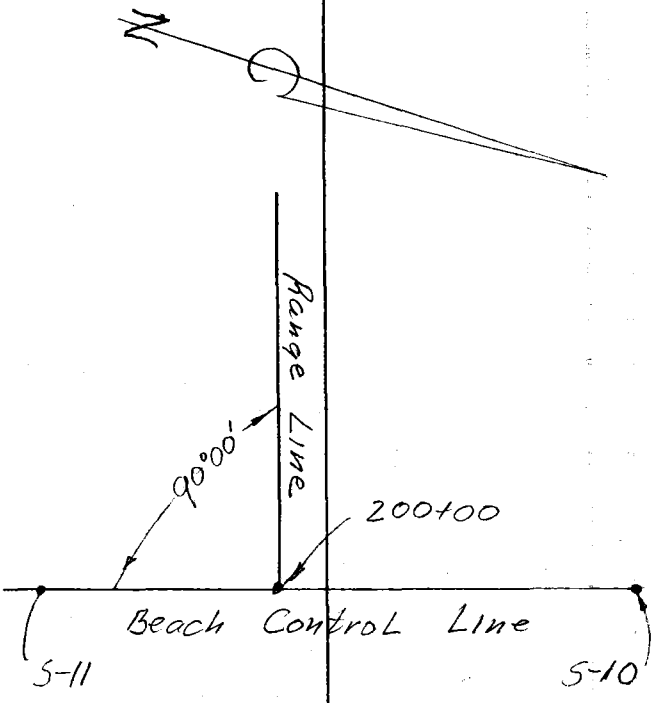
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		633	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
200+00	S-11	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
No. Date 8-15-60 Date 10-14-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by Harried Notes Kept by Date 7-26-60
No. Date 8-25-60 Date 10-20-60 Map No. Indexed H.E. Ott Date

F.B. 2806 Pg. 41

76L-298 CE 307 11-58

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F. B. 2806 Pg. 42 Job No. 0300.02 Division No. 11 Notes Red CWH Date 8-15-60 Plotted CWH Date 10-19-60 Profile No.
Survey of Beach Erosion Studies Notes Chkd. J.S.H. Date 8-23-60 Checked J.S.H. Date 10-20-60 X-Sec. No.
Survey by Harriet Notes Tee down
Indexed H.E.O.T. Date

STATION	B. S.	H. I.	F S.	ELEV		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
		21			90° 00	
		22			"	
		23		6 35	"	
200+00	5-11					

76L-298 CE 307 11-58

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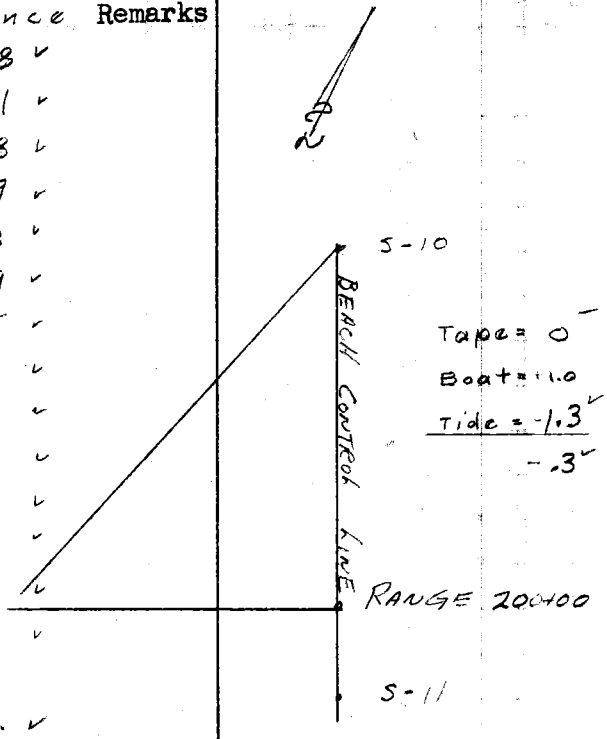
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 11
X-Sec. No. Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by WHORPET Notes C.T. Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. Inspected H. E. OIL Date
F.B. 2806 Pg. 43

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Distance	Remarks
S-10	S-11	1		27.5	27.2	6·33	63°-25'	1,698	
		2		26.8	26.5		62°-26'	1,621	
		3		25.9	25.6		61°-04'	1,538	
		4		24.9	24.6		59°-36'	1,449	
		5		23.9	23.6		58°-08'	1,368	
		6		23.0	22.7		56°-36'	1,289	
		7		22.2	21.9		55°-14'	1,225	
		8		21.2	20.9		53°-42'	1,157	
		9		19.3	19.0		51°-59'	1,087	
		10		18.0	17.7		50°-25'	1,028	
		11		16.3	16.0		48°-54'	974	
		12		14.8	14.5		47°-15'	920	
		13		14.0	13.7		46°-15'	888	
		14		13.1	12.8		44°-49'	845	
		15		12.2	11.9				
		16		11.8	11.5		43°-40'	812	
		17		10.7	10.4		42°-27'	778	
		18		10.2	9.9		41°-30'	752	
		19		9.5	9.2		40°-39'	730	
		20		8.9	8.6		39°-28'	700	



Tape = 0
Boat = 11.0
Tide = -1.3
-.3

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 2806 Pg. 44 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by HARRIET Notes SMITH W Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
S-10	S-11	21	8.2	7.9		38°-39'	680		Tape = 0
		22	7.7	7.4		37°-46'	659		Boat = +1.0
		23	7.2	6.9	6-35	36°-53'	638		Tide = -1.3
									-.3

76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 200+00	SIGHT ON 195+00
					DATUM MEAN LOWER LOW WATER	195+00 INSHORE
T.P.						
195+00					CONTROL LINE	
					T.P.	
	100	1146				
195+00			6.9	4.7	30°00' 289'	Mean tide line
T.P.	151	4.97	9.00	3.46	T.P.	
195+00			4.2	0.8	35°57' 358'	
"			5.3	-0.3	39°52' 418'	
"			6.2	-1.3	43°07' 468'	
"			9.0	-4.0	46°35' 528'	
"			10.5	-5.5	49°34' 587'	
"			12.0	-7.0	52°43' 657'	

Profile Notes Red. J.S.H. Plotted CWH Job No. Division No. 11 F. B. 06 Pg. 45
No. Date 8-8-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Ckd. C.W. Checked J.S.H. Survey by Notes Date 7-26-60
No. Date 8-10-60 Date 10-20-60 Map No. Indexed Date

F. B. 2806 Pg. 46 25.00.02

Job No. Division No. 11 Notes Red. J.S.H. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-19-60 No. X-Sec.

Survey by CWD H. E. OH Notes T. C. GOODWIN & Notes Chkd. CWH Checked J.S.H.

Indexed Date Date 8-10-60 Date 10-20-60 No.

STATION	S. S.	H. I.	F. S.	ELEV.	
195+00		4.97			
"			14.0	(-9.0)	15.0211
			15.2	(-10.2)	15.0051

76L-298 CE 307 11-58

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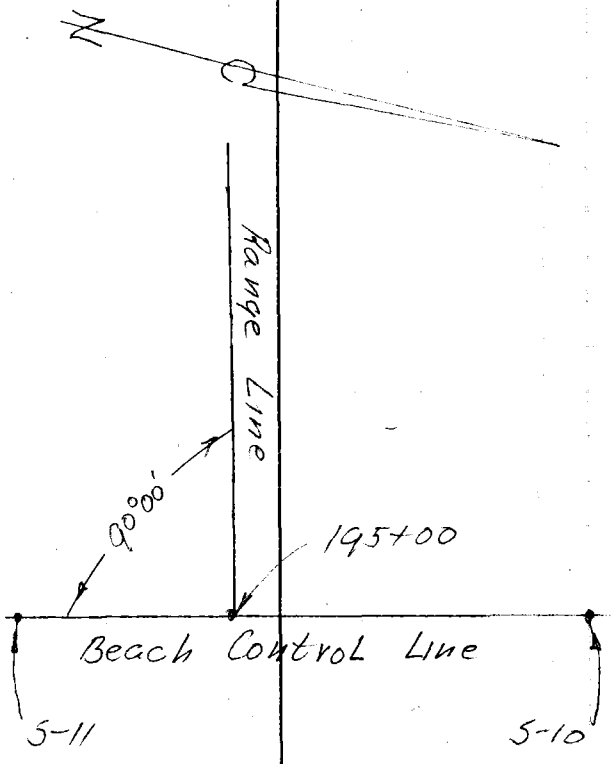
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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	
195+00	5-11	1		649	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. ____ X-Sec. No. ____
Notes Red CWH Plotted CWH Job No. ____ Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-28-60
Date 8-23-60 Date 10-20-60 Map No. ____ Indexed H. E. Ott Date ____

F.B. 2006 PG. 47

F.B. 2806 Pg. 48 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 No. _____

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date _____ Date 8-23-60 Date 10-20-60 No. _____

Inst. At 195+00

Sight On S-11

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
#	21				
Rec.	22				
Adj.	23				
Time	24				
Hor. Ang.	25		6.52		
	26				

Depth

60°00 " " " " "

Do not extend notes this side of this line.

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76L-266 CE 307 11-58

76L-298 CE 307 11-58

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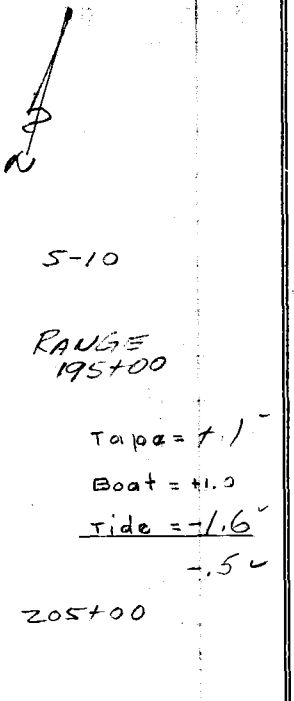
Profile No. X-Sec. No. Notes Red CHH Plotted CHH Job No. 0300.02 Division No. 11
Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
Notes Chkd. J.S.H. Checked J.S.H. Survey by CHH Notes Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. Indexed Date
F.B. 2906 Pg. 49

STATION Inst. At	Sight On	#	H.I. Depth Rec.	H.I. Depth Adj.	B.S.	Time	F.S.	ELEV. Hor. Ang.	Distance	Remarks
205+00	5-10	1	30.3	29.8		6-49		63°-31'	2,007	
		2	30.4	29.9				62°-33'	1,925	
		3	29.3	28.8				61°-46'	1,862	
		4	29.1	28.6				61°-04'	1,809	
		5	28.5	28.0				60°-07'	1,740	
		6	27.4	26.9				59°-11'	1,676	
		7	27.0	26.5				58°-00'	1,600	
		8	25.7	25.2				56°-29'	1,510	
		9	25.1	24.6				55°-04'	1,432	
		10	24.2	23.7				53°-23'	1,346	
		11	23.1	22.6				51°-28'	1,256	
		12	22.4	21.9				50°-46'	1,225	
		13	21.2	20.7				49°-11'	1,158	
		14	19.7	19.2				47°-45'	1,101	
		15	18.5	18.0				46°-22'	1,049	
		16	17.3	16.8				44°-54'	997	
		17	15.9	15.4				44°-04'	968	
		18	14.5	14.0				42°-36'	920	
		19	13.3	12.8				41°-37'	888	
		20	12.8	12.3				40°-19'	849	



Tape = +1
Boat = +1.0
Tide = -1.6
-.5

76L-298 CE 307 11-58

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F.B. 2806 Pg. 50 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Date 10-19-60 No. Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Notes Chkd. J.S.H. Checked J.S.H. Date 10-20-60 No. X-Sec.
Survey by WHARRIET & SMITH N Notes Date 8-23-60
Indexed H. E. Ott Date

STATION		B.S.	H.I.		F.S.	ELEV			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Distance	Remarks	
205+00	5-10	21	11.4	10.9		35°50'	805		Tape = 7.1
		22	10.2	9.7		38°03'	783		Boat = +1.0
		23	9.6	9.1		36°52'	750		Tide = -1.6
		24	8.5	18.0		36°08'	730		-.5
		25	8.5	8.0		33°28'	712		
		26	7.6	7.1	6.52	34°06'	677		

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

Profile No. ____ Notes Red. J.S.H. Date 8-8-60 Plotted C.W.H. Date 10-19-60 Job No. ____ Survey of ____ Division No. 11
X-Sec. No. ____ Notes Chkd. C.W.H. Date 8-10-60 Checked J.S.H. Date 10-20-60 Survey by ____ Notes ____ Date ____ Map No. ____ Indexed H. E. Ott Date ____
F. B. 5126 Pg. 51

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 185+00	SIGHT ON 190+00
		31.78				190+00 INSHORE
			5.88	15.42		
	5.77	21.92			DATUM MEAN LOWER LOW WATER	
				16.5		
			4.9			
			5.4	16.4		
			6.4	15.4		
				12.6		
				11		
			10.2	11.6		
			11.94	9.8		
	07.9	10.67				
190+00			60	47	31°06' 302'	Mean tide line
T.P.	221	5.98	698	3.69	T.P.	
190+00			47	1.2	35°51' 361'	
"			60	-0.1	40°14' 423'	
"			74	-1.5	43°51' 480'	
"			103	-4.4	47°59' 553'	

F. B. 2806 Pg. 52 | 0320102

Job No. _____ Division No. 11 Notes Red. JSH. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-19-60 No. _____

Survey by LIND Notes J.C. GOODWIN & Sappell Notes Chkd. CWH Checked J.S.H. X-Sec.

Indexed H. E. OTT Date _____ Date 8-[illegible] Date 10-20-60 No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	
190+00					
"					
"					
		590'			
			124	(-6.5)	5[illegible]291 626'
			141	(-8.2)	5[illegible] 692'
			153	(-9.4)	5[illegible] 763'
					T @ 185+00
					SIGHT ON 190+00

76L-298 S & E #307—1-56

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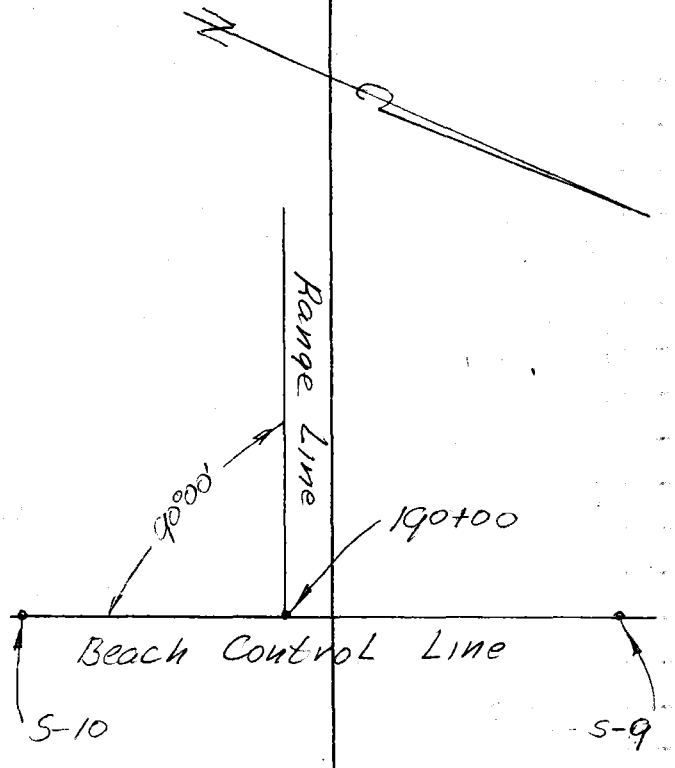
76L-298 CE 307 11-58

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	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		7 13	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
190+00	5-10	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Extension Stud 125
No. X-Sec. Notes Chkd J.S.H. Checked J.S.H. Survey by Harriet Notes Reviewed Date 1-26-62
No. Date 8-23-60 Date 10-20-60 Map No. Indexed H.E.O.M. Date

0300.02

F.B. 2806 Pg. 53

F.B. 2806 Pg. 54 | 0300.02 Job No. | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-15-60 | Date 10-19-60 | No.

Survey by Uhavriet | Notes Teehoom | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-23-60 | Date 10-20-60 | No.

76L-200 CE 307 11-58

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 190+00					
Sight On 5-10					
	21				
	22				
	23				
	24				
	25				
	26				

#	Depth Rec.	Adj.	Time	Hor. Ang.
			7 16	90° 00'
				"
				"
				"
				"

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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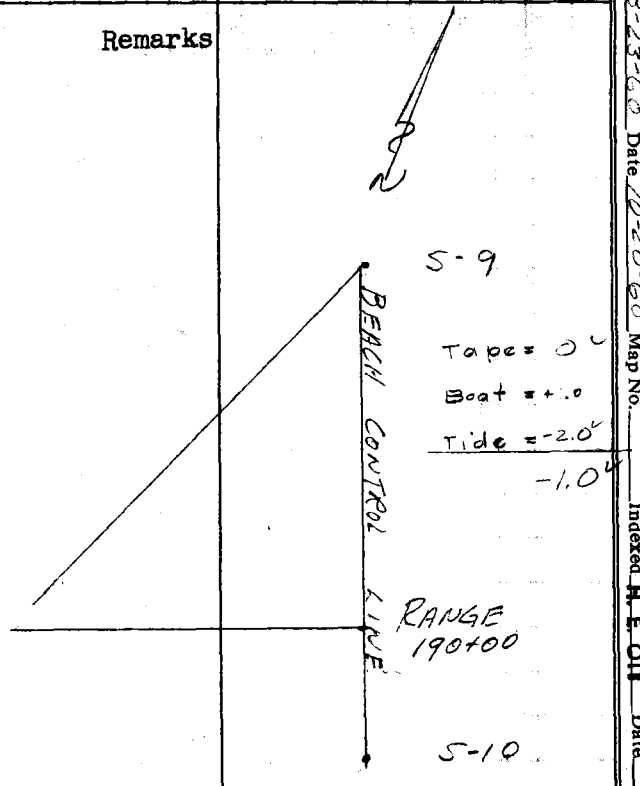
Do not extend notes this side of this line.

Profile Notes Red. CWH Plotted CWH Job No. Division No. 11 F.B. 2706 PG. 55
Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES
No. X-Sec. Notes Chkd. JSH Checked JSH Survey by WHARTON Notes SMITH Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. Indexed H. E. OTT Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-9	5-10	1	31.4	30.4	7-13	64°-09'	2064	
		2	30.6	29.6		62°-57'	1958	
		3	29.6	28.6		61°-56'	1876	
		4	28.8	27.8		60°-53'	1795	
		5	28.3	27.3		59°-42'	1711	
		6	27.3	26.3		58°-18'	1619	
		7	26.6	25.6		56°-37'	1518	
		8	25.4	24.4		54°-46'	1416	
		9	24.5	23.5		52°-33'	1306	
		10	22.9	21.9		50°-36'	1217	
		11	21.1	20.1		48°-42'	1138	
		12	19.3	18.3		47°-04'	1075	
		13	17.6	16.6		45°-33'	1019	
		14	16.5	15.5		44°-41'	989	
		15	15.4	14.4		43°-18'	942	
		16	14.3	13.3		42°-16'	909	
		17	13.8	12.8		41°-24'	882	
		18	12.8	11.8		40°-24'	851	
		19	11.8	10.8		39°-31'	825	
		20	11.0	10.0		38°-20'	791	



Tape = 0
Boat = +.0
Tide = -2.0
-1.0

0300.02

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2806 Pg. 56 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by WHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
S-9	S-10	21	10.2	9.2		37°25'	765	Tide = 0
		22	9.5	8.5		36°06	729	Boat = +1.0
		23	8.7	7.7		35°07	703	Tide = -2.0
		24	8.1	7.1		33°45	668	-1.0
		25	7.2	6.2		32°42	642	
		26	6.6	5.6	7-16	31°39	616	

76L-298 S & E #307—1-56

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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.

STATION	B. S.	H. I.	F. S.	ELEV.	⊼ @ 190 +00		Sight on 185+00
					DATUM MEAN LOWER LOW WATER		185+00 INSHORE
185+00						CONTROL LINE	
T.P.					T.P.		
	147	10.25					
185+00			62	4.7			295 Rt. Mean tide line
T.P.	199	6.82	612	4.83	T.P.		
185+00			51	1.7	[illegible]	344'	
"			64	0.4	[illegible]	392'	
"			79	-1.1	[illegible]	446'	
"			95	-2.7	44°19'	488'	
"			107	-3.9	46°53'	528'	
"			123	-6.5	50°16'	602'	

Profile Notes Red. J.S.H. Plotted C.W.H. Job No. Division No.
Date 8-9-60 Date 10-19-60 Survey of
No. X-Sec. Notes Chkd. C.W.H. Checked J.S.H. Survey by Notes
Date 8-9-60 Date 10-20-60 Map No. Indexed H. E. OTT Date
No. Date

F. B. Pg.

F. B. 7806 Pg. 58 | 0300.02

Job No. ____ Division No. 11 Notes Red. J.S.H. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-8-60 Date 10-19-60 No. ____

Survey by CWD H. E. OTT Notes J. C. GOODWIN & D.S. Notes Chkd. CWH Checked J.S.H. X-Sec.

Indexed ____ Date ____ Date 8-10-60 Date 10-20-60 No. ____

STATION	S. S.	H. I.	F. S.	ELEV.		
185+00						
"						
"						
		682	138	-7.0		
			155	-8.7		
			173	-10.5		
					633'	
					711'	
					802'	
					TB 190+00	
						Sight on 185+00

76L-298 S & E #307—1-56

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761-298 CE 307 11-58

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

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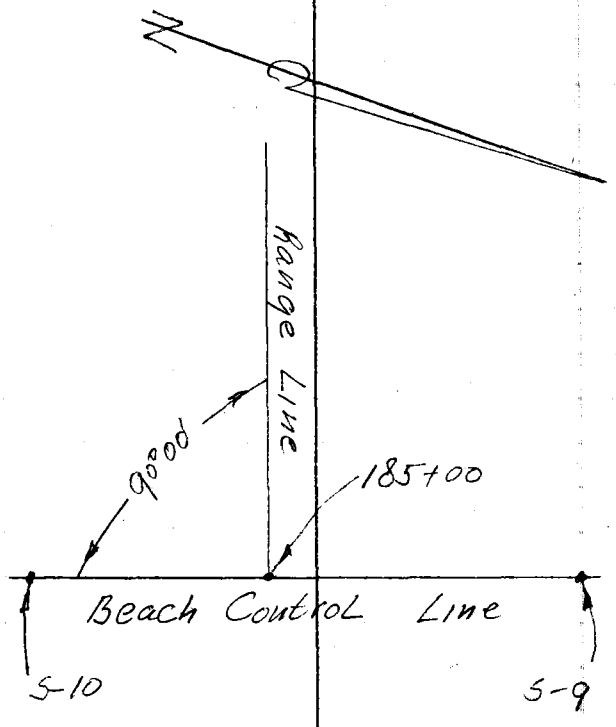
Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. Checked Survey by Notes Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. Indexed H. E. OH Date
F. B. 2806 Pg. 55

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
185+00	5-10	1		7 30	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



F.B. 2806 Pg. 60 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 No. _____

Survey by Harriet H. E. Orr Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed _____ Date _____ Date 8-23-60 Date 10-20-60 No. _____

76L-298 CE 307 11-58

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 185+00					
Sight On 5-10					
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				

#	Depth Rec.	Adj.	Time	Hor. Ang.
21				90°00'
22				"
23				"
24				"
25				"
26				"
27				"
28				"
29				"
30				"
31				"
32				"
33			7 35	"

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

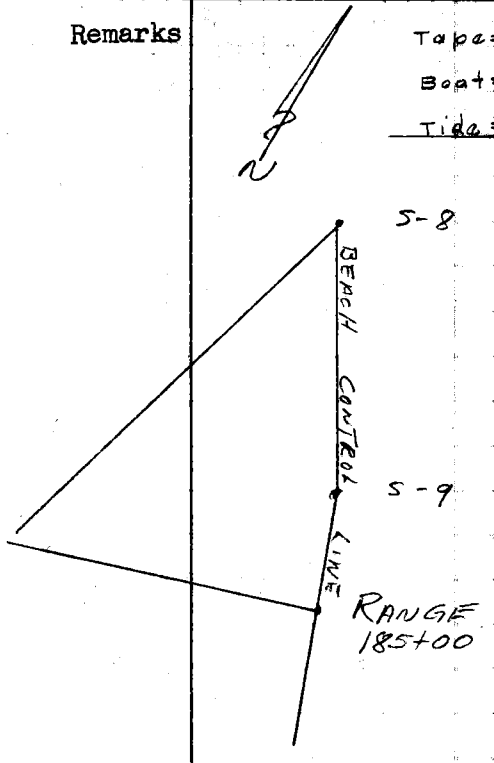
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red CWH Date 8-15-60 Notes Chkd JSH Date 8-29-60 Plotted CWH Date 10-19-60 Checked JSH Date 10-20-60 Job No. 03002 Survey of BEACH EROSION STUDIES Survey by CHARGE PARTY Map No. ____ Division No. 11 Notes Indexed ____ Date ____ R.E. OK ____ Date ____ F.B. 2806 Pg. 61

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-8	5-9	1	28.4	27.2	7-30	42°50'	1704'
		2	28.1	26.9		41°37'	1637'
		3	27.7	26.5		40°42'	1587'
		4	26.9	25.7		39°30'	1524'
		5	26.3	25.1		38°30'	1471'
		6	25.5	24.3		37°04'	1397'
		7	24.8	23.6		35°42'	1333'
		8	23.9	22.7		34°16'	1265'
		9	23.4	22.2		33°25'	1226'
		10	22.8	21.6		32°34'	1188'
		11	21.8	20.6		31°56'	1159'
		12	21.1	19.9		31°18'	1130'
		13	20.3	19.1		30°52'	1112'
		14	20.1	18.9		30°14'	1085'
		15	19.2	18.0		29°41'	1061'
		16	18.8	17.6		29°10'	1040'
		17	17.5	16.3		28°28'	1011'
		18	17.0	15.8		27°42'	978'
		19	16.0	14.8		27°00'	949'
		20	15.6	14.4		26°16'	919'

Tape = 0
Boat = +1.0
Tide = -2.2
-1.2



76L-298 CE 307 11-58

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

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F.B. 2806 PG. 62 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile No.
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 X-Sec. No.
Survey by WARRIET Notes SMITH N Notes Chkd. JSH Checked JSH
Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	14.3	13.1		25°41'	895'	Tape = 0
		22	13.8	12.6		25°01'	868'	Boat = +1.0
		23	13.0	11.8		24°27'	846'	Tide = -2.2
		24	12.2	11.0		23°44'	820'	-1.2
		25	11.8	10.6		23°06'	795'	
		26	11.2	10.0		22°31'	770'	
5-8	5-9	27	10.8	9.6		21°51'	746'	
		28	10.2	9.0		21°15'	723'	
		29	10.0	8.8		20°33'	694'	
		30	9.1	7.9		19°47'	666'	
		31	8.3	7.1		18°57'	636'	
		32	7.8	6.6		18°24'	616'	
		33	7.3	6.1	7 34	17°35'	584'	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	THIS ℄ 185+00	180+00
		[illegible]			DATUM MEAN LOWER LOW WATER	180+00 INSHORE
	532	22.32	[illegible]	17.8		
180+00			[illegible]	17.1	CONT. CO. LINE	
			50	17.3	10' LT. TALK WALK	
			55	16.8		9' RT. FRONT WALK
			51	17.2		102' RT. BEACH [illegible]
			63	16.1		142' RT. TOP BEA[illegible]
			96	12.[illegible]		186' RT. [illegible]
			83	15.3		200' RT. [illegible]
			106	11.7		240' RT. TOP [illegible]
T.P.			21	10.17	T.P.	
	074	10.91				
T.P.	218	7.61	549	5.43	T.P.	
180+00			2.9	4.7	[illegible]	281' Mean tide line
"			61	1.5	[illegible]	347'
"			85	-0.9	[illegible]	423'
"			106	-3.0	[illegible]	476'
"			129	-5.3	[illegible]	535'
"			144	-6.8	[illegible]	584'

Profile Notes Red J.S.H. Plotted CWH Job No. Division No.
No. Date 8-5-60 Date 10-19-60 Survey of BEACH [illegible]
X-Sec. Notes Chkd. JWH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 8-10-60 Date 10-20-60 Map No. Indexed H. E. OTT Date
F. B. [illegible] Pg. [illegible]

F. B. 2886 Pg. 64 | Job No. 0700.02 | Division No. 11 | Notes Red. J.S.H. | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 8-8-60 | Date 10-19-60 | No.

Survey by LMD | Notes J. C. Goodwin & Ass. | Notes Chkd. CWH | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-10-60 | Date 10-20-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.
180+00		761'	162	(-8.6)
				660'
				T @ 185+00
				right of 180+00

Do not extend notes this side of this line.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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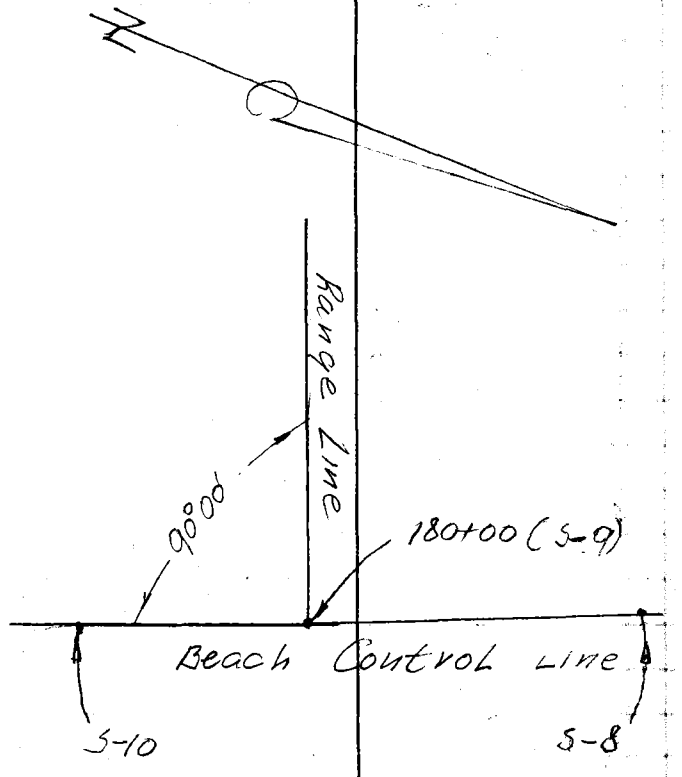
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		743	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
180+00	S-10	8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ X-Sec. No. ____
Notes Red CWH Plotted CWH Job No. 030202 Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Whorrel Notes Chkd. Date
Date 8-23-60 Date 10-20-60 Map No. ____ Indexed H. E. Ott Date ____
F.B. 2806 PG. 65

F.B. 2806 Pg. 66 | 030002 Job No. | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-15-60 | Date 10-19-60 | No.

Survey by Vhavriet | Notes Tee boom | Notes Chkd. J.S.H. | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-23-60 | Date 10-20-60 | No.

76L-286 CE 307 11-58

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 180+00	Sight On 5-10				
	# 21	Depth Rec. Adj.	Time 7 46	Hor. Ang. 90° 00'	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	

76L-298 CE 307 11-58

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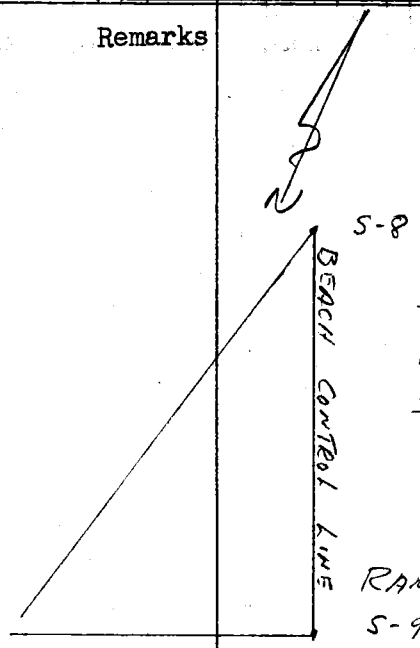
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No. | Notes Red. CWH Date 8-15-60 | Plotted CWH Date 10-19-60 | Job No. 0300.02 | Division No. 11 | Survey of BEACH EROSION STUDIES | F.B. 2806 Pg. 67
Notes Chkd. JSH Date 8-23-60 | Checked JSH Date 10-20-60 | Survey by [illegible] | Map No. | Notes [illegible] Date 7-26-60 | Indexed [illegible] | Date

STATION Inst. At	Sight On	B.S.	H.I. Depth #	Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
S-8	S-9		1	27.9	26.6	7-43	47°40'	1528'	
			2	27.3	26.0		46°46'	1485'	
			3	26.7	25.4		45°25'	1421'	
			4	24.8	23.5		43°48'	1348'	
			5	23.6	22.3		42°33'	1295'	
			6	22.8	21.5		41°23'	1245'	
			7	21.9	20.6		39°50'	1183'	
			8	20.9	19.1		38°24'	1128'	
			9	18.9	17.6		37°03'	1077'	
			10	17.6	16.3		35°34'	1023'	
			11	16.5	15.2		34°25'	981'	
			12	16.1	14.8		33°38'	954'	
			13	15.5	14.2		32°50'	927'	
			14	14.8	13.5		32°09'	904'	
			15	14.3	13.0		31°15'	875'	
			16	13.9	12.6		30°36'	853'	
			17	13.4	12.1		29°50'	829'	
			18	12.8	11.5		29°00'	802'	
			19	12.5	11.2		28°17'	779'	
			20	11.9	10.4		27°31'	755'	



Tape = +.1'
Boat = +1.0
Tide = -2.4'
-1.3'

RANGE
S-9 180+00

76L-298 CE 307 11-58

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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. 2806 Pg. 68 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by WARRIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed B.E. 011 Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	11.1	9.8		26°45'	732'	Tape = +.1
		22	10.5	9.2		26°00'	708'	Boat = +1.0
		23	9.9	8.6		25°26'	691'	Tide = -2.4
		24	9.4	8.1		24°45'	671' ~~664'~~	-1.3
		25	8.7	7.4		23°51'	646'	
		26	8.3	7.0	7-46	23°18'	629'	
S-8	S-9							

76L-298 S & E #307—1-56

PLEASE RETURN TO
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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.	180+00		175+00
					DATUM MEAN LOWER LOW WATER		175+00 INSHORE
T.P.	5 66	[illegible]	5 55	[illegible]			
175+00			[illegible]	[illegible]	CONTROL		LINE
			4 8	18 1	147' LT. BACK WALK		
			5 3	17 [illegible]			5' RT. [illegible]
			4 5	18 [illegible]			[illegible]
			6 4	14 5			100' RT. [illegible]
			10 9	[illegible]			220' RT. [illegible]
T.P.			11 20	11 68			
	099	12.67					
T.P.			742	5.25	T.P.		
	253	7 78					
175+00			3.2	4.7	28°13'	268'	Mean tide line
			5.2	2.6	30°12'	291'	
			7.3	0.5	35°55'	362'	
			9.2	-1.4	40°44'	423'	
			11.1	-3.3	44°55'	497'	
			13.9	-6.1	47°44'	550'	
			14.9	-7.1	50°29'	606'	

Profile No. X-Sec. No. Date 8-10-60 Notes Chkd. Date 8-10-60 Notes Red. J.S.H. Date 8-9-60 Notes Chkd. Date 10-20-60 Plotted C.W.H. Date 10-14-60 Checked J.S.H. Map No. Job No. Survey of Survey by Division No. Notes Date Indexed H. & O.I.B. Date F. B. 1956 Pg. 59

F. B. 2806 Pg. 70 | Job No. 0300.02 | Division No. 11 | Notes Red. J.S.H. | Plotted CWH | Profile

Survey of BEACH EROSION STUDIES | Date 8-9-60 | Date 10-19-60 | No.

Survey by SAND | Notes J.C. GOODWIN | Notes Chkd. CWH | Checked J.S.H. | X-Sec.

Indexed H. E. OTT | Date | Date 8-10-60 | Date 10-20-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
175+00		778'	170	(-9.2)' 530.5'	670' T @ 180+00 Sight on 175+00

76L-298 S & E #307—1-56

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76L-298 CE 307 11-58

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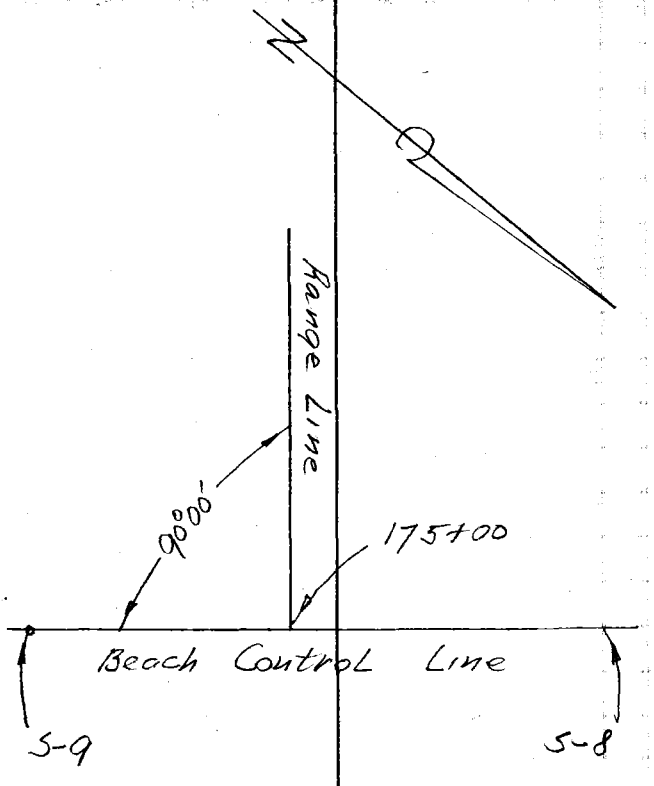
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		757	90° 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
175+00	5-9	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted CWH Job No. 030002 Division No. 11 F.B. 2806 Pg. 71
No. Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 8-23-60 Date 10-20-60 Map No. Indexed [illegible] Date

76L-298 CE 307 11-58

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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. 2806 Pg. 72 Job No. 036002 Division No. 11 Notes Red CWH Plotted CWH Profile No.
Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 X-Sec. No.
Survey by Hydraulics Notes Chkd. J.S.H. Checked J.S.H. No.
Indexed Date Date 8-23-60 Date 10-20-60

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
		21			90° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
175+00	5-9	28		8 00	"		

76L-298 CE 307 11-58

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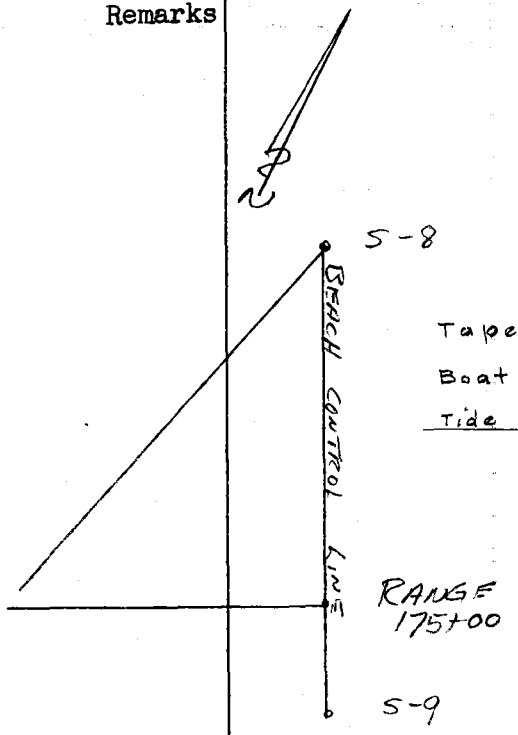
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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
5-8	5-9	1	28.8	27.1	7-57	58°-55'	1659	
		2	28.0	26.3		57°-24'	1564	
		3	26.9	25.2		55°-45'	1469	
		4	25.9	24.2		54°-21'	1394	
		5	25.6	23.9		52°-47'	1317	
		6	23.9	22.2		50°-43'	1223	
		7	22.7	21.0		49°-06'	1154	
		8	21.1	19.4		47°-46'	1102	
		9	20.6	18.9		46°-42'	1061	
		10	19.0	17.3		45°-53'	1031	
		11	19.2	17.5		45°-03'	1002	
		12	17.7	16.0		44°-02'	967	
		13	17.3	15.6		43°-07'	936	
		14	16.6	14.9		42°-17'	909	
		15	16.1	14.4		41°-35'	887	
		16	14.8	13.1		40°-37'	858	
		17	14.4	12.7		39°-45'	832	
		18	13.8	12.1		38°-44'	802	
		19	13.2	11.5		37°-50'	777	
		20	12.5	10.8		36°-46'	747	



Tape = 0
Boat = +1.0
Tide = -2.7
-1.7

Profile No. ____ X-Sec. ____ No. ____
Notes Red CWH Date 8-15-60 Notes Chkd. ____ Date 8-23-60
Plotted CWH Date 10-14-60 Checked ____ Date 10-20-60
Job No. 0300-03 Survey of BEACH EXCAVATION STUDIES Survey by ____ Map No. ____
Division No. 11 Notes ____ Date 7-26-60 Indexed ____ Date ____
F.B. 2806 Pg. 73

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2806 Pg. 74 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile No.
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 X-Sec. No.
Survey by HARPIST Notes SOUTH 11 Notes Chkd. J.S.H. Checked JSH
Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	12.1	10.4		35°54'	724	Tape = 0'
		22	10.9	9.2		34°40'	692	Boat = +1.0
		23	10.3	8.6		33°53'	672	Tide = -2.7
		24	9.1	7.4		32°10'	629	-1.7
		25	8.9	7.2		31°10'	605	
		26	8.2	6.5		30°39'	569	
		27	7.5	5.8		29°44'	548	
5-8	5-9	28	6.5	4.8	8:00	27°30'	521	

76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
					POSTED 175+00		SHEET 170+00
		[illegible]			DATUM MEAN LOWER LOW WATER		170+00 INSHORE
T.P.	[illegible]	[illegible]	[illegible]	[illegible]			
170+00			5.3	[illegible]	CONTROL		LINE
			[illegible]	[illegible]	[illegible]		
			5.6	[illegible]			[illegible]
			5.[illegible]	[illegible]			55' [illegible]
			4.9	[illegible]			100' [illegible]
			11.1	[illegible]			150' [illegible]
T.P.			11.11	11.[illegible]			
	088	12.3[illegible]					
T.P.	300	836	699	5.36	T.P.		
170+00			3.7	4.7	26°11'	246'	Mean Tide line
"			6.8	1.6	31°14'	303'	
"			9.8	-0.4	37°22'	382'	
"			10.7	-2.3	40°46'	431'	
"			12.8	-3.9	43°43'	478'	
"			14.5	-6.1	47°26'	544'	
"			15.9	-7.5	49°52'	593'	
			16.8	-8.4	51°25'	627'	

Profile Notes Red J.S.H. Plotted CWM Job No. Division No.
Date 8-9-60 Date 10-19-60 Survey of BEACH & EROSION STUDY
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date 8-10-60 Date 10-20-60 Map No. Indexed H. F. OH Date
F. B. PG. 75

F. B. 2806 Pg. 76

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

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

Survey by LIND Notes J.C. GOODWIN 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.

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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 CE 307 11-58

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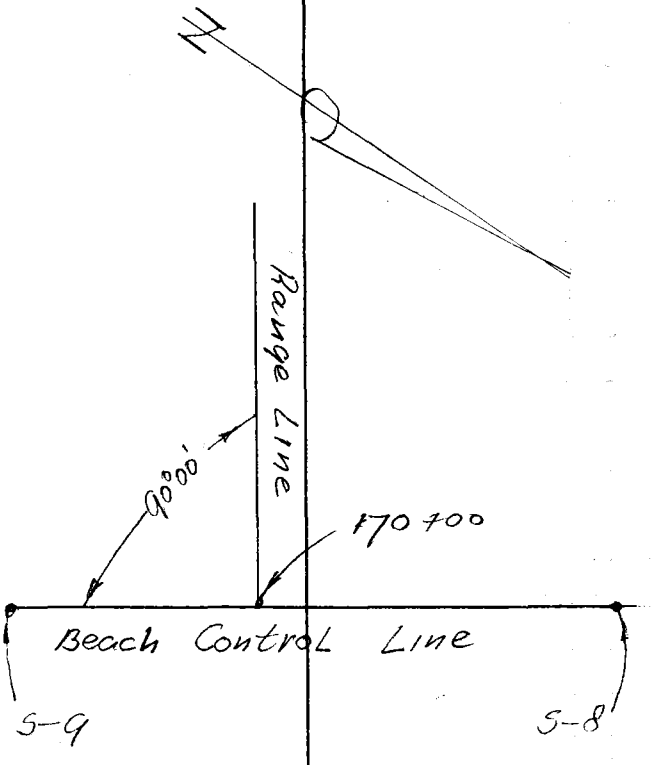
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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	
170+00	S-9	1		8 13	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. 11
No. Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-60
No. Date 8-25-60 Date 10-20-60 Map No. Indexed Date
F.B. 2806 Pg. 77

F.B. 2806 Pg. 78 | Job No. 030002 | Division No. 11 | Notes Red CWH | Plotted CWH | Profile

Survey of Beach Erosion Studies | Date 8-15-60 | Date 10-19-60 | No.

Survey by Wharriet | Notes Teeboom | Notes Chkd. J.S.H | Checked J.S.H. | X-Sec.

Indexed H. E. Ott | Date | Date 8-23-60 | Date 10-20-60 | No.

76L-298 CE 307 11-58

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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 170+00					
Sight On 5-9					
#					
Rec. 21					
Adj. 22					
23					
Depth					
Time			8 16		
Hor. Ang.				90° 00'	

76L-298 CE 307 11-58

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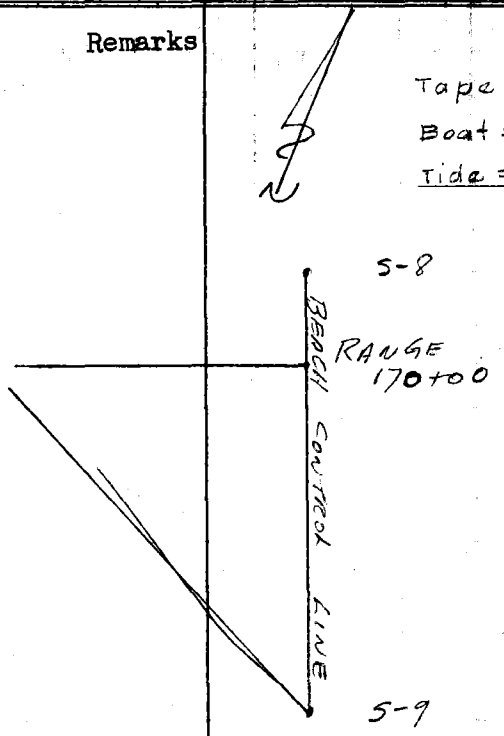
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 830.0.0 Division No. 11 F.B. 2806 Pg. 79
X-Sec. No. ____ Date 8-15-60 Date 10-19-60 Survey of BERTH EXCAVATION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes Smith Date 7-26-60
Date 8-23-60 Date 10-20-60 Map No. ____ Indexed N. E. Ott Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-9	5-8	1	28.8	26.9	8-13	56°15'	1497	
		2	28.4	26.5		54°45'	1415	
		3	27.4	25.5		53°37'	1357	
		4	26.3	24.4		52°53'	1321	
		5	24.5	22.6		50°18'	1205	
		6	23.2	21.3		48°53'	1146	
		7	21.9	20.0		47°37'	1096	
		8	20.5	18.6		46°29'	1053	
		9	19.8	17.9		45°30'	1010	
		10	18.5	16.6		44°33'	984	
		11	17.9	16.0		43°40'	955	
		12	17.1	15.2		42°28'	915	
		13	16.0	14.1		41°25'	882	
		14	15.5	13.6		40°25'	852	
		15	14.3	12.4		39°12'	816	
		16	13.5	11.6		38°15'	788	
		17	13.1	11.2		36°43'	746	
		18	12.0	10.1		35°23'	710	
		19	11.8	9.9		34°15'	681	
		20	11.2	9.3		32°53'	647	



76L-298 CE 307 11-58

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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. 2806 Pg. 80 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by WHARRIST Notes SMITHN Notes Chkd. J.S.H. Checked J.S.H.
Indexed B.E. Off Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
		21	10.3	8.4		32°08'	628	Tape = 0
59	8	22	10.8	8.9		31°12'	606	Boat = +1.0
5	5	23	8.7	6.8	8-16	29°42'	570	Tide = -2.9
								-1.9

76L-298 S & E #307—1-56

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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 @ 160+00		START @ 165+00
		22 58			DATUM MEAN LOWER LOW WATER		165+00 INSHORE
T.P.	0 81	22 50	5 36	17 22			
160+00			4 2	17 5	CONT. SOL LINE		
			5 1	[illegible]	INST. BACK WALK		
			5 [illegible]	17 2			54' RT. FOOT WALK
—			8 4	14 1			100' RT. BEACH WALK
			11 2	11 3			180' RT. TOP BERM
T.P.			11 08	11 42	T.P.		
	0 86	12.28					
			7.6	47	23°55	226'	Mean tide line
T.P.	2 00	490	9 38	2.90	T.P.		
165+00			44	05	[illegible]	330'	
"			63	-1.4	31°25'	394'	
"			79	-3.0	40°[illegible]	437'	
"			103	-5.4	42°38'	475'	
"			122	-7.3	45°30'	527'	
"			137	-8.8	48°24'	586'	
—			150	-10.1	51°15'	651'	

Profile Notes Red J.S.H. Plotted CWH Job No. Division No.
No. Date 8-9-60 Date 10-19-60 Survey of [illegible]
X-Sec. Notes Chkd. [illegible] Checked J.S.H. Survey by Notes [illegible] Date
No. Date 8-10-60 Date 10-20-60 Map No. Indexed Date

F. B. [illegible] Pg. 51

F. B. 2806 PG. 82 | 0300-102

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by LIND Notes J.C. GOODWIN 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.

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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 CE 307 11-5B

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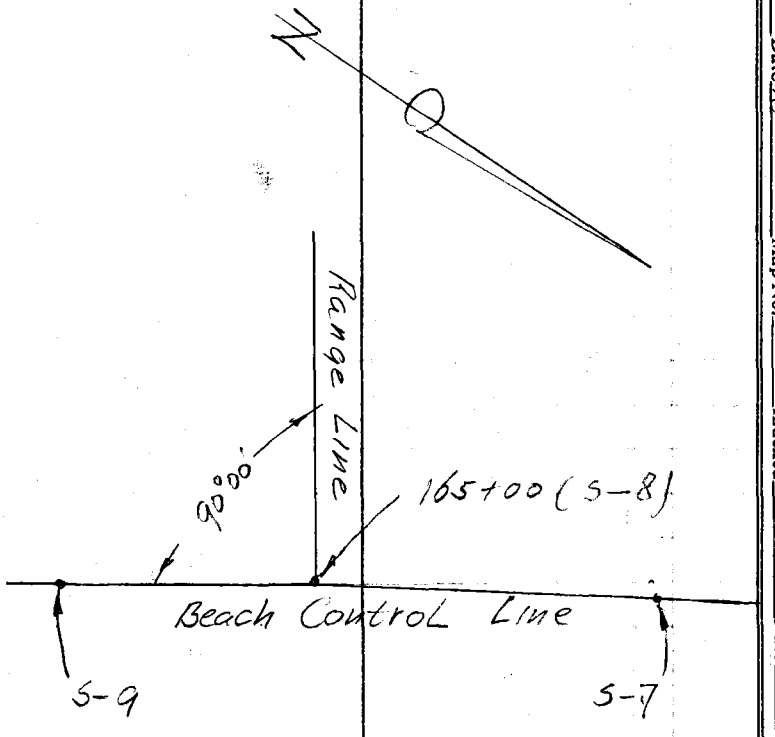
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK. WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks	
		1		8 32	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
165+00	S-9	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11
Date 8-15-60 Date 10-19-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 2-26-61
Date 8-23-60 Date 10-20-60 Map No. ____ Indexed N. E. OTT Date ____

F.B. 2806 PG. 83

F.B. 2806 Pg. 84 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 No. _____

Survey by Charrier Notes Tee boom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. Ott Date _____ Date 8-23-60 Date 10-20-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 165+00					
Sight On 5-9					
#					
21					
22					
23					
Depth Rec. Adj.					
Time					
8 34					
Hor. Ang.					
90° 00'					
"					
"					

76L-298 CE 307 11-58

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76L-298 CE 807 11-58

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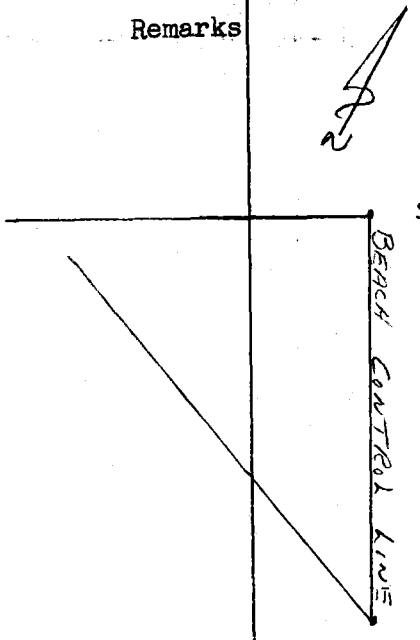
Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Rod CWH Plotted CWH Job No. 0300.02 Division No. 11 Date 8-15-60 Date 10-14-60 Survey of BEACH EROSION STUDIES Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-60 Date 8-23-60 Date 10-20-60 Map No. ____ Indexed ____ Date ____ F. E. Off ____ F.B. 2806 Pg. 65

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-1	5-1	1		28.5	26.2	8-32	45°-38'	1533	
		2		27.9	25.6		43°-52'	1442	
		3		26.6	24.3		41°-46'	1340	
		4		25.2	22.9		39°-30'	1236	
		5		23.5	21.2		37°-33'	1154	
		6		21.9	19.6		36°-00'	1091	
		7		20.0	17.7		34°-00'	1013	
		8		18.6	16.3		32°-33'	957	
		9		17.5	15.2		31°-20'	914	
		10		16.3	14.0		30°-13'	873	
		11		15.6	13.3		28°-56'	830	
		12		14.8	12.5		27°-50'	792	
		13		13.7	11.4		26°-39'	753	
		14		12.9	10.6		25°-15'	708	
		15		12.0	9.7		24°-22'	680	
		16		11.6	9.3		23°-38'	657	
		17		11.1	8.8		22°-40'	627	
		18		9.9	7.6		21°-59'	606	
		19		9.8	7.5		21°-09'	581	
		20		9.2	6.9		20°-26'	560	



RANGE
5-8 = 165+00

Tape = -.1
Boat = +1.0
Tide = -3.2
-2.3

76L-298 CE 307 11-58

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F.B. 2806 PG. 86 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by LAHARIET Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	8.6	6.3		19°50'	542	
9	8	22	7.9	5.6		18°45'	509	Tape = -.1
5	5	23	6.9	4.6	8-34	18°00'	488	Boat = +1.0
								Tide = -3.2
								-2.3

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST @ 155+00		INST @ 160+00
		22.55			DATUM MEAN LOWER LOW WATER		160+00 INSHORE
T.P.	[illegible]	[illegible]	5.13	17.37			
5-8			5.23	17.27	5-8 [illegible]		
			5.1	17.4	CONTROL LINE		
			5.1	17.4	14' LT. [illegible]		
—			5.3	17.2			5' RT. [illegible]
			8.7	13.8			135' RT. [illegible]
			11.3	11.2			174' RT. [illegible]
T.P. [illegible]			11.38	11.22			
	1.00	12.22					
			7.5	4.7	23°31'	218'	MEAN [illegible]
T.P.	2.33	5.22	9.33	2.89	T.P.		
160+00			4.3	0.9	31°56'	312'	
"			6.1	-1.7	38°47'	402'	
"			9.2	-4.0	41°59'	450'	
"			11.4	-6.2	44°43'	495'	
"			12.5	-7.3	47°13'	540'	
"			13.8	-8.6	50°39'	610'	
			15.3	-10.1	53°43'	681'	

Profile Notes Red J.S.H. Plotted C.W.H. Job No. Division No.
No. Date 8-9-60 Date 10-19-60 Survey of [illegible]
X-Sec. Notes Chkd. C.W.H. Checked J.S.H. Survey by Notes Date 27
No. Date 8-10-60 Date 10-20-60 Map No. Indexed H. E. OTT Date

F. B. [illegible] PG. 87

F. B. 2116 Pg. 88 Job No. Division No. 4 Notes Red. Plotted Profile

Survey of FLOOD EROSION STUDIES Date Date No.

Survey by LUKD Notes J.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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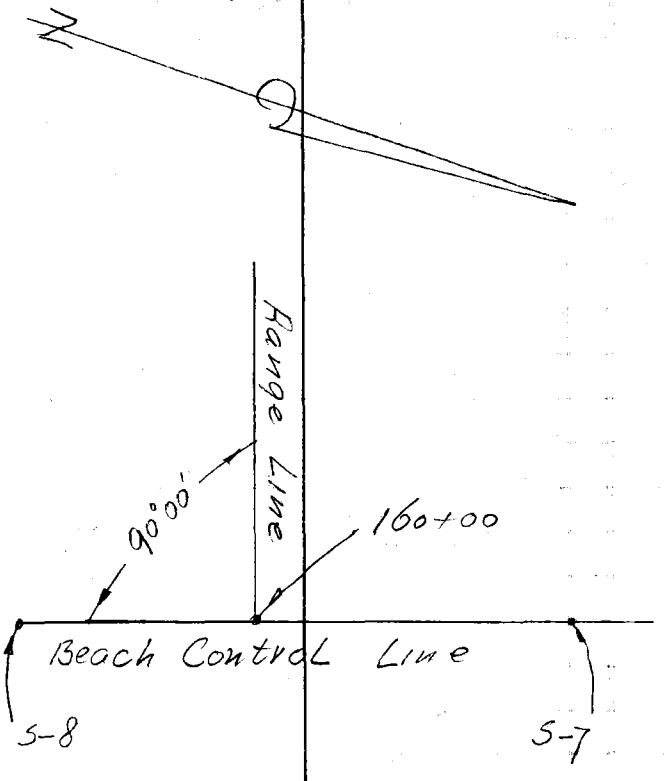
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks	
		1		849	90°00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
160+00	S-8	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. ____ X-Sec. ____ Notes Red CWH Plotted CWH Job No. 03000.02 Division No. 11
Data 8-15-60 Date 10-10-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked JSH Survey by Harrison Notes Page Date 7-25-60
Date 8-25-60 Date 10-20-60 Map No. ____ Indexed ____ Date ____

F.B. 2806 PG. 89

F. B. 2806 Pg. 90

Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-15-60 Date 10-19-60 No.

Survey by Charnet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. Ott Date Date 8-23-60 Date 10-20-60 No.

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 160+00					
Sight On 5-8					
# Rec. Adj.	Depth				
21					
22					
23					
Time					
8 52					
Hor. Ang.					
90° 00'					
"					
"					

76L-298 CE 307 11-58

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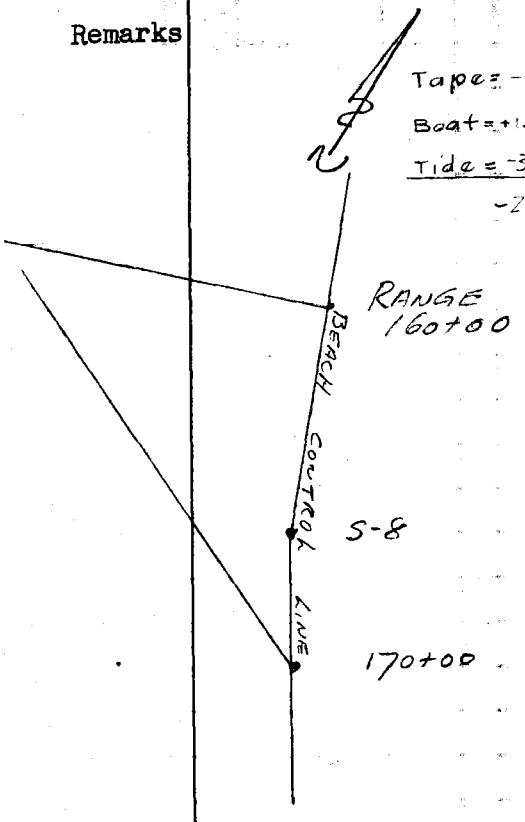
Profile No. X-Sec. No. Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 Date 8-15-60 Date 10-19-60 Survey of BEACH EROSION STUDIES Notes Chkd. JSH Checked JSH Survey by [illegible] Notes [illegible] Date 7-26-60 Date 8-23-60 Date 10-20-60 Map No. Indexed R. E. OH Date

F.B. 2806 PG. 91

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S.	Time	ELEV. Hor. Ang.		Remarks
170+00	S-5	1		29.5	26.9		8-49	55°-19'	1539'	
		2		27.8	25.2			53°-51'	1459'	
		3		26.5	23.9			52°-13'	1371'	
		4		25.8	23.2			50°-45'	1298'	
		5		24.3	21.7			49°-04'	1220'	
		6		23.5	20.9			47°-34'	1157'	
		7		21.7	19.1			45°-58'	1093'	
		8		20.2	17.6			44°-05'	1022'	
		9		19.1	16.5			42°-33'	969'	
		10		17.4	14.8			40°-50'	912'	
		11		16.0	13.4			39°-22'	866'	
		12		15.2	12.6			38°-28'	837'	
		13		14.5	11.9			37°-08'	797'	
		14		13.5	10.9			35°-47'	759'	
		15		12.8	10.2			34°-22'	719'	
		16		12.2	9.6			33°-25'	695'	
		17		11.9	9.3			31°-58'	658'	
		18		11.1	8.5			30°-38'	624'	
		19		10.2	7.6			29°-11'	590'	
		20		9.4	6.8			27°-55'	559'	



76L-298 CE 307 11-58

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

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F.B. 2806 Pg. 92 Job No. 0800.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-15-60 Date 10-19-60 No. X-Sec.
Survey by WHARTON SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H.L. OTT Date Date 8-23-60 Date 10-20-60 No.

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	9.0 ✓	6.4		26-04	538' ✓	
		22	8.7 ✓	6.1 ✓		25-15	499' ✓	
170+00	5-8	23	7.6 ✓	5.0	8-52	24-06	474' ✓	

Tape = -.1
Boat = +1.0
Tide = -3.5
-2.6

Notes Ck'd by J.S.H.	Survey of Beach Erosion Studies
~~Map No.~~	~~IN 2 3 R 0 2 Tape Stn of~~
Office Work J.S.H	Surveyed by Charriet
Checked C.W.H.	Notes Blanchard Date 7-27-60
Date 8-5-60	Indexed H. E. OTT

F. B. 2806 PG. 93

TIDE GAUGE READINGS

JULY 27, 1960

DATUM - MLLW

TIME - PST

TIME PST	GAUGE READING MLLW
5:00	06
5:30	06
6:00	07
6:30	10
7:00	13
7:30	17
8:00	22
8:30	25
9:00	30
9:30	35
10:00	38
10:30	42
11:00	44

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

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900 LOS ANGELES COUNTY ENGINEERING BLDG.

763098 CE #247 7-53

F. B. 2806 PG. 94

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76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
					INST. @ 155+00		INST. @ 152+50
					DATUM MEAN LOWER LOW WATER		152+50 INSHORE
T.P.							
21-32			9.28		21-32 ELEV. = 13		
152+50							
					47		
T.P.					T.P.		
	0.97	9.35					
			4.7	4.7	38°58'	202'	MEAN
T.P.	1.87	4.62	6.60	2.75	T.P.		
152+50			37	0.9	51°25'	313'	
"			58	-1.2	57°20'	390'	
"			80	-3.4	61°24'	459'	
"			98	-5.2	63°41'	506'	
"			127	-8.1	67°13'	595'	
"			135	-8.9	69°20'	663'	
"			150	-10.4	71°84'	729'	

Profile Notes Red JSH Plotted GWH Job No. Division No.
No. X-Sec. Date 8-9-60 Date 10-20-60 Survey of
No. Notes Chkd. Checked Survey by Notes Date
Date 8-10-60 Date 10-21-60 Map No. Indexed M. E. OTT Date

F. B. PG. 95

F. B. 7816 Pg. 96 | 920002

Job No. _____ Division No. 11 Notes Red. _____ Plotted _____ Profile

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

Survey by ~~H. E. Ott~~ F.K.R. Notes J.C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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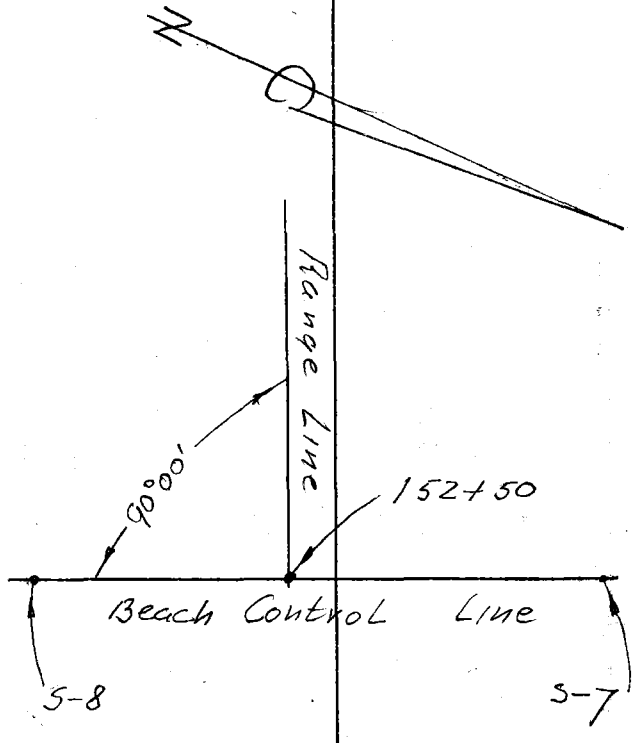
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
152+50	S-8	1		5 33	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20		5 35	"	



Profile Notes Red CWM Plotted CWM Job No. 03000.02 Division No. 11 F.B. 2806 PG. 97
No. Date 8-15-60 Date 10-20-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. J.S.H. Checked J.S.H. Survey by [illegible] Notes [illegible] Date 1-27-[illegible]
No. Date 8-23-60 Date 10-27-60 Map No. Indexed H.E.O'H Date

F.B. 2806 PG. 98 | 0300.02 Job No. ____ Division No. 11 | Notes Red ____ | Plotted ____ | Profile

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

Survey by Harriet Notes Teeboom | Notes Chkd. ____ | Checked ____ | X-Sec.

Indexed H. E. OTT Date ____ | Date ____ | Date ____ | No. ____

76L-296 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 152+50	Sight On 5-8	Depth # Rec. Adj.	Time	Hor. Ang.	

76L-298 CE 307 11-58

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

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red CWH Plotted CWH Job No. ____ Division No. 11 F.B. 2816 Pg. 79
Date 8-15-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked JSH Survey by LITTLEFIELD Notes Stolen Date 7-27-60
Date 8-23-60 Date 10-21-60 Map No. ____ Indexed H. E. OTT Date ____

0300.0 ℄

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
165+00 = S-8	S-7	1	26.8	27.6	5-33	52°-32'	1631	Tape = +.4
		2	26.5	27.3		51°-14'	1556	Boat = +1.0
		3	25.1	25.9		49°-16'	1451	Tide = -.6
		4	24.2	25.0		47°-42'	1374	+.8
		5	23.6	24.4		46°-12'	1304	S-7
		6	22.5	23.3		44°-52'	1244	
		7	21.7	22.5		43°-25'	1183	BEACH CONTROL LINE
		8	20.1	20.9		41°-41'	1113	RANGE 152+50
		9	18.5	19.3		40°-00'	1049	
		10	16.8	17.6		38°-13'	984	
		11	15.6	16.4		36°-33'	926	
		12	14.6	15.4		35°-06'	879	
		13	13.5	14.3		33°-51'	839	
		14	12.4	13.2		32°-46'	805	
		15	12.1	12.9		32°-04'	783	S-8 = 165+00
		16	11.0	11.8		31°-00'	751	
		17	9.9	10.7		30°-11'	728	
		18	9.5	10.3		29°-10'	698	
		19	8.9	9.7		28°-06'	668	
		20	8.1	8.9	5-35	26°-02'	610	

76L-298 CE 307 11-58

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

Do not extend notes this side of this line.

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

F. B. 2806 Pg. 100 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile ____

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

Survey by LAHACET Notes SMITH 2 Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____ Date ____

76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

STATION	S. S.	H. I.	F. S.	ELEV.	INST. @ 155+00		SIGHT ON 147+50
					DATUM MEAN LOWER LOW WATER		147+50 INSHORE
147+00							
				34			
T.P.					T.P.		
	104	11 12					
147+50			64	4.7	13°44'	183'	Mean tide line
T.P.	265	4.89	888	2.24	T.P.		
147+50			47	0.2	17°19'	234'	
"			40	0.9	20°25'	279'	
"			56	-0.7	24°40'	344'	
"			75	-2.9	28°27'	407'	
"			11.3	-6.4	33°45'	501'	
"			13.1	-8.3	36°20'	551'	
"			14.6	-9.7	39°58'	626'	

Profile Notes Red J.S.H. Plotted C.W.H. Job No. Division No.
No. Date 8-9-60 Date 10-20-60 Survey of
X-Sec. Notes Chkd. C.W.H. Checked J.H. Survey by Notes Date
No. Date 8-10-60 Date 10-27-60 Map No. Indexed H. E. Date
F. B. Pg.

F. B. 7826 Pg. 102 | 0300-02

Job No. _____ Division No. 1 Notes Red. J.S.H. Plotted CWH Profile

Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No. _____

Survey by LIND Notes J.C. GOODWIN Notes Chkd. CWH Checked J.S.H. X-Sec.

Indexed H. E. OTT Date _____ Date 8-10-60 Date 10-21-60 No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	
147+50		4.89'	15.8	(-10.9)	
				42.03'	677'±
				78	155+00
					Sight on 147+50

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L-298 CE 307 11-58

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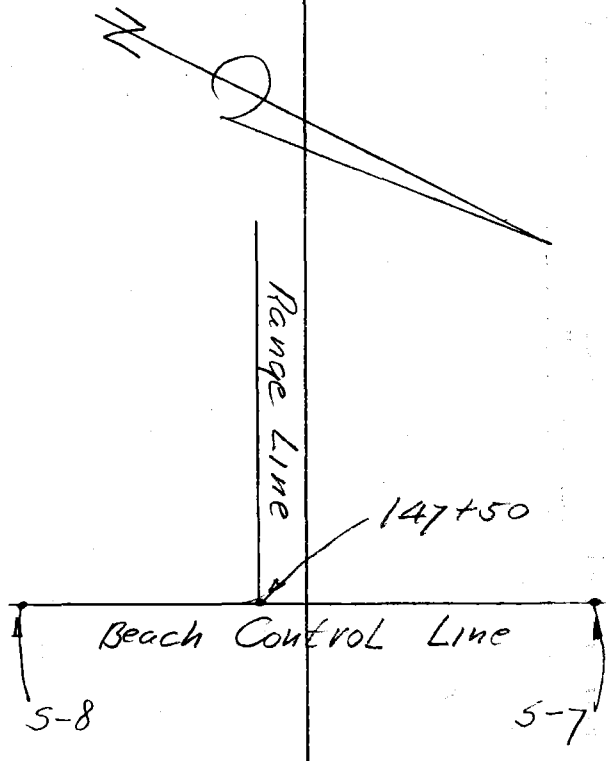
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
147+50	5-8	1			346	90° 00'	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile No. ____ Notes Red. CWH Plotted CWH Job No. ____ Division No. 11
X-Sec. No. ____ Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd. WSH Checked WSH Survey by Williams Notes Taken Date 7-27-60
Date 8-24-60 Date 10-21-60 Map No. ____ Indexed H.E. Date ____

03000.02

F.B. 2805 PG. 103

F. B. 2806 Pg. 104

Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile

Survey of Beach Erosion Studies Date 8-16-60 Date 10-20-60 No.

Survey by Uharriet Notes Teeboom Notes Chkd. J.S.H. Checked J.S.H. X-Sec.

Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60 No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 147+50					
Sight On 5-8					
#	21				
	22				
	23				
	24				
	25				
	26				
Depth Rec. Adj.					
Time			550		
Hor. Ang.				90°00'	

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76L-298 CE 307 11-58

76L-298 CE 307 11-56

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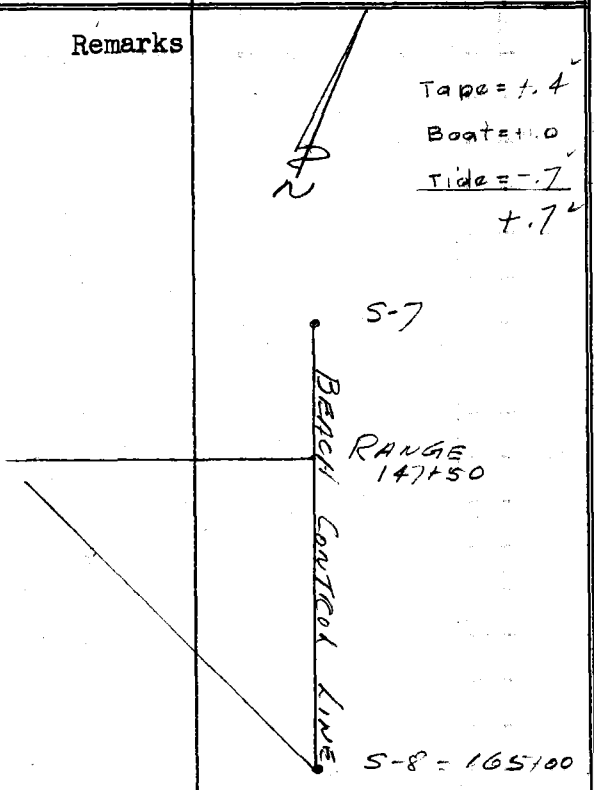
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S.	H.I. Depth # Rec.	H.I. Depth Adj.	F.S.	ELEV. Time	Hor. Ang.		Remarks
165+00 = S-8	S-7		1	29.1	29.8	5-46	46°-18'	1831	
			2	27.9	28.6		44°-42'	1733	
			3	27.1	27.8		43°-16'	1647	
			4	26.1	26.8		42°-00'	1575	
			5	25.3	26.0		40°-24'	1489	
			6	24.5	25.2		39°-15'	1430	
			7	24.2	24.9		38°-08'	1374	
			8	23.1	23.8		36°-51'	1311	
			9	22.8	23.5		35°-22'	1243	
			10	21.7	22.4		33°-50'	1173	
			11	20.9	21.6		32°-37'	1120	
			12	20.4	21.1		31°-31'	1073	
			13	19.3	20.0		30°-36'	1034	
			14	18.1	18.8		29°-16'	980	
			15	16.5	17.2		28°-01'	931	
			16	15.4	16.1		26°-52'	887	
			17	14.3	15.0		25°-46'	845	
			18	13.1	13.8		24°-45'	807	
			19	12.6	13.3		23°-37'	765	
			20	11.6	12.3		22°-37'	730	



Profile Notes Red CWH Plotted CWH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 125
No. X-Sec. Date 8-16-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
No. Notes Chkd. J.S.H. Checked J.S.H. Survey by LITHGOW Notes Chkd. Date 2-27-60
Date 8-24-60 Date 10-27-60 Map No. Indexed H. E. OH Date

76L-298 CE 307 11-58

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F.B. 2806 PG. 106 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted CWH Profile
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by UHA CREW Notes SMITH N Notes Chkd. J.S.H. Checked J.S.H.
Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
165+00	S-7	21	10.5	11.2		21°44'	698	Tape = +.4
		22	10.0	10.7		20°56'	670	Boat = +1.0
		23	9.2	9.9		19°48'	630	Tide = -.7
		24	8.2	8.9		19°12'	609	+.7
		25	8.1	8.8		18°36'	590	
		26	8.4	9.1	5-50	17°42'	558	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	142+50 TO 147+50		SIGHT ON 142+50
					DATUM MEAN LOWER LOW WATER		142+50 INSHORE
142+50			A		CONTROL LINE		
	123	10.69					
142+50			60	4.7	19°50'	180'	100 ft fide line
T.P.	199	5.20	748	3.21	T.P.		
142+50			46	0.6	28°07'	267'	
"			76	-2.4	34°23'	343'	
"			86	-3.4	38°23'	396'	
"			112	-6.0	42°04'	451'	
"			141	-8.9	45°43'	513'	
"			160	~~-9.8~~ -10.8	48°27'	564'	

Profile Notes Red J.S.H. Plotted CWH Job No. Division No.
Date 8-9-60 Date 10-20-60 Survey of SEPT. 1960 STORM
No. X-Sec. Notes Chkd. CWH Checked Survey by Notes Date
No. Date 8-11-60 Date 10-21-60 Map No. Indexed H. E. OTT Date

F. B. 2016 PG. 107

F. B. 2806 Pg. 108 | 0300.02

Job No. Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LIND Notes T.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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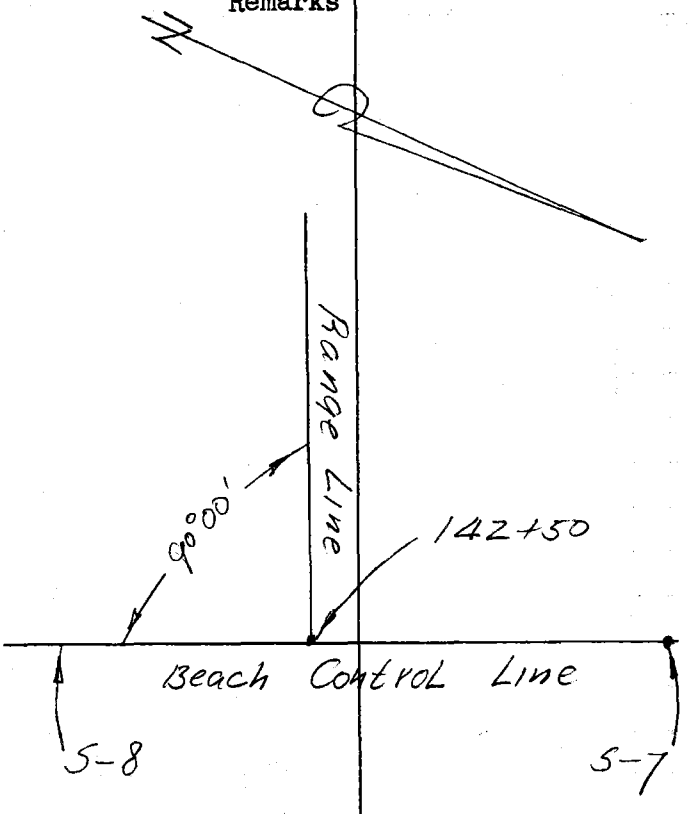
STATION		B.S.	H.I.	F.S.	ELEV.
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.
		1		608	90°00'
		2			"
		3			"
		4			"
		5			"
		6			"
		7			"
		8			"
142+50	5-8	9			"
		10			"
		11			"
		12			"
		13			"
		14			"
		15		610	"

Remarks



Profile Notes Red CWH Plotted JSH Job No. 0300.02 Division No. 11 F.B. 2805 Pg. 109
No. Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked CWH Survey by Khuttler Notes See book Date 7-27-60
No. Date 8-24-60 Date 10-21-60 Map No. Indexed H. E. OH Date

F.B. 2805 Pg. 110

0300.02

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by Wharriet Notes Tee Doom Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Hor.Ang.	Time	Rec. Adj.	#	Depth	On	Sight	At	Inst.	Remarks
														142+50
														S-8

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76L-266 CE 307 11-58

76L-298 CE 307 11-58

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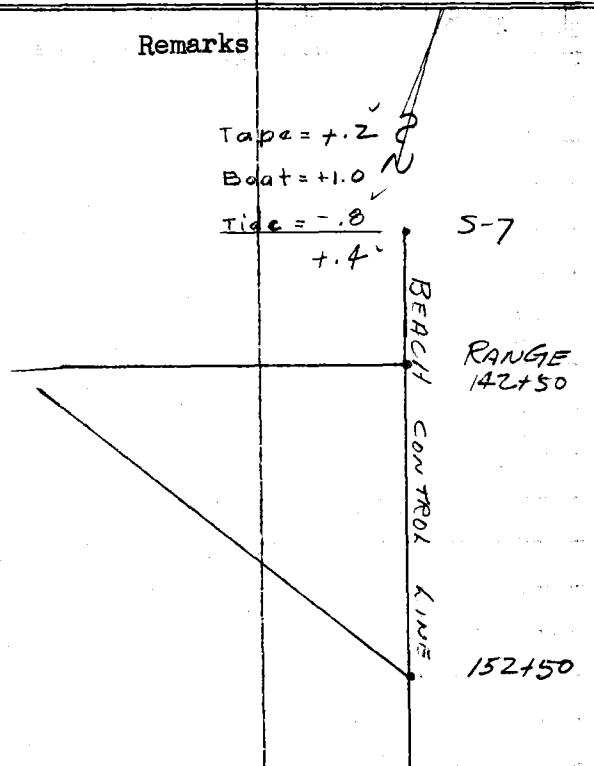
Profile No. ____ X-Sec. No. ____ Notes Red. CWH Plotted JSH Job No. 8300.02 Division No. 11 F.B. 2606 PG. 111
Date 8-16-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. JSH Checked CWH Survey by HARCKET, Note SMITH Date 7-27-60
Date 8-24-60 Date 10-21-60 Map No. ____ Indexed ____ Date ____

STATION Inst. At	Sight On	#	B.S. Rec.	B.S. Adj.	H.I.	F.S. Time	ELEV. Hor. Ang.		Remarks
1527 50	S-7	1	23.6	24.0		6-08	54°-10'	1385	
		2	22.8	23.2			51°-50'	1272	Tape = +.2
		3	22.8	23.2			50°-00'	1192	Boat = +1.0
		4	21.2	21.6			48°-27'	1128	Tide = -.8
		5	20.5	20.9			47°-01'	1073	+.4
		6	19.0	19.4			45°-06'	1004	
		7	18.0	18.4			43°-21'	944	
		8	16.4	16.8			42°-05'	903	
		9	15.8	16.2			41°-00'	869	
		10	14.4	14.8			39°-20'	819	
		11	14.0	14.4			38°-20'	791	
		12	12.5	12.9			36°-36'	743	
		13	11.4	11.8			35°-40'	718	
		14	11.1	11.5			33°-56'	673	
		15	9.9	10.3		6-10	32°-43'	642	



76L-298 CE 307 11-58

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

F.B. 2806 PG. 112 Job No. 0300.02 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date ____ Date ____ No. ____ X-Sec. ____
Survey by WHARRST Notes SMITH N Notes Chkd. ____ Checked ____ No. ____
Indexed ____ Date ____ Date ____ Date ____
H. E. OH

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	137+50	137+50
					DATUM MEAN LOWER LOW WATER	137+50 INSHORE
				14 8	CONTROL LINE	
					T.P.	
	191	9.85				
T.P.	131	5.10	6.10	3.79	T.P.	
			0.4	4.7	20°49' 190'	Mean tide line
137+50			4.4	0.7	26°19' 247'	
"			5.5	-0.4	32°57' 324'	
"			7.4	-2.3	37°58' 388'	
"			9.5	-4.4	41°09' 437'	
"			12.3	-7.7	43°45' 479'	
"			14.6	-9.5	47°26' 544'	
"			15.0	-9.9	50°15' 601'	

Profile No. _____ Notes Red. J.S.H. Date 8-9-60 Plotted J.S.H. Date 10-20-60 Job No. _____ Division No. _____ F. B. _____ Pg. 115

X-Sec. No. _____ Notes Chkd. C.W.H. Date 8-10-60 Checked C.W.H. Date 10-21-60 Survey of _____ Survey by _____ Notes _____ Date _____ Map No. _____ Indexed H.E.O.H. Date _____

F. B. 2806 Pg. 114

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

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

Survey by LWD Notes J. C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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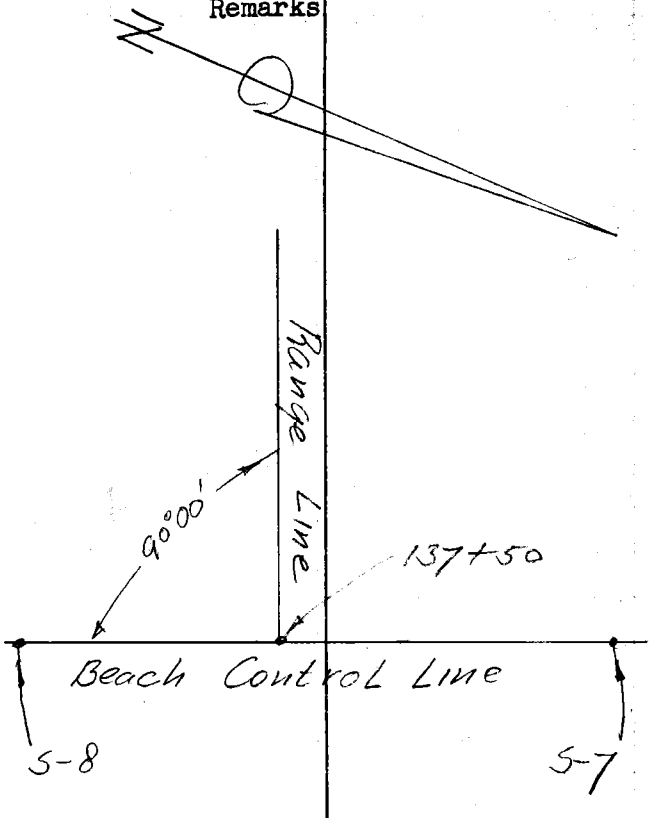
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
137+50	S-8	1		6 22	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 J.S.H. Job No. 0300-02 Division No. 11
No. X-Sec. Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
No. Notes Chkd. Checked CWH Survey by Notes Date
Date 9-2-60 Date 10-27-60 Map No. Indexed H. E. Ott Date

F.B. 2005 PG. 115

F.B. 2805 Pg. 116 | 0300.02

Job No. _____ Division No. 11 Notes Red C.W.H. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-16-60 Date 10-20-60 No. _____

Survey by Harriet H. L. Ott Notes Teeboom Notes Chkd. J.S.H. Checked C.W.H. X-Sec.

Indexed _____ Date _____ Date 8-24-60 Date 10-21-60 No. _____

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 137+50					
Sight On 5-8					
#	21				
Rec.	22				
Adj.	23				
	24				
	25				
	26				
	27				
Depth					
Time			625		
Hor. Ang.	90°00'	"	"	"	

76L-298 CE 307 11-58

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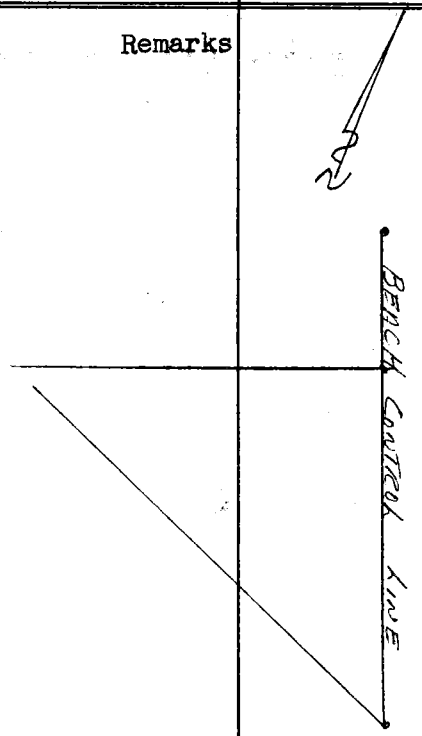
Profile No. ____ X-Sec. No. ____ Notes Red. CWH Date 8-16-60 Notes Chkd. J.S.H. Date 8-24-60 Plotted J.S.H. Date 10-20-60 Checked C.W.H. Date 10-21-60 Job No. 0300.02 Survey of BEACH PROBSION STUDIES Survey by WHARCUE / Notes SKIPPER Map No. ____ Indexed ____ Division No. 11 Date 7-27-60 Date ____ F.B. 2806 PG. 117

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor.Ang.		Remarks
152+50	S-7	1	27.5	27.7	6-22	48°-31'	1697	
		2	26.8	27.0		47°-08'	1616	
		3	25.9	26.1		46°-03'	1556	
		4	26.1	26.3		44°-48'	1490	
		5	24.8	25.0		43°-37'	1430	
		6	24.7	24.9		42°-22'	1368	
		7	24.2	24.4		41°-19'	1319	
		8	23.1	23.3		39°-41'	1245	
		9	22.6	22.8		38°-08'	1178	
		10	21.7	21.9		36°-26'	1107	
		11	20.3	20.5		35°-20'	1064	
		12	19.5	19.7		33°-14'	983	
		13	17.5	17.7		32°-12'	945	
		14	17.2	17.4		31°-00'	902	
		15	15.5	15.7		29°-45'	858	
		16	15.4	15.6		28°-59'	831	
		17	14.2	14.4		28°-04'	800	
		18	14.2	14.4		26°-58'	764	
		19	12.8	13.0		26°-16'	741	
		20	12.0	12.2		25-41'	722	



Tape = +1
Boat = +1.0
Tide = -.9
+.2

76L-298 CE 307 11-58

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F.B. 2806 Pg. 118 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H.
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by CHARLES SMITH N Notes Chkd. J.S.H. Checked CWH
Indexed H.L. Date Date 8-24-60 Date 10-21-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
152+50	S-7	21	11.7	11.9		24°45'	692	Tape = +.1
		22	10.9	11.1		23°58'	668	Boat = +1.0
		23	10.4	10.6		23°21'	648	Tide = -.9
		24	10.0	10.2		22°17'	615	+.2
		25	8.6	8.8		21°35'	594	
		26	8.5	8.7		20°47'	570	
		27	8.5	8.7	6-25	20°19'	555	

76L-295 S & E #307—1-56

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Profile No. Notes Red. J.S.H. Plotted J.S.H. Job No. Division No. 11
X-Sec. No. Date 8-9-60 Date 10-20-60 Survey of Beach Erosion Study
Notes Chkd. Checked Survey by Notes Date
Date 8-10-60 Date 10-21-60 Map No. Indexed M.P.O. Date
F. B. 1326 Pg. 112

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 137+50		SIGHT ON 132+50
					DATUM MEAN LOWER LOW WATER		132+50 INSHORE
				16 3			
132+50					CONTROL LINE		
					53'		
			1138		T.P.		
	010	9 56					
T.P.	240	5 57	639	3.17	T.P.		
132+50			0.9	4 7	20°54'	191'	Mean tide line
"			57	-0.1	26°22'	248'	
"			61	-0.5	30°50'	298'	
"			78	-2.2	36°12'	366'	
"			110	-5.4	42°33'	459'	
"			143	-8.7	45°45'	513'	
"			162	-10.6	49°21'	582'	

F. B. 7806 Pg. 120 | 030002

Job No. _____ Division No. 11 Notes Red. _____ Plotted _____ Profile

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

Survey by LIND Notes J.C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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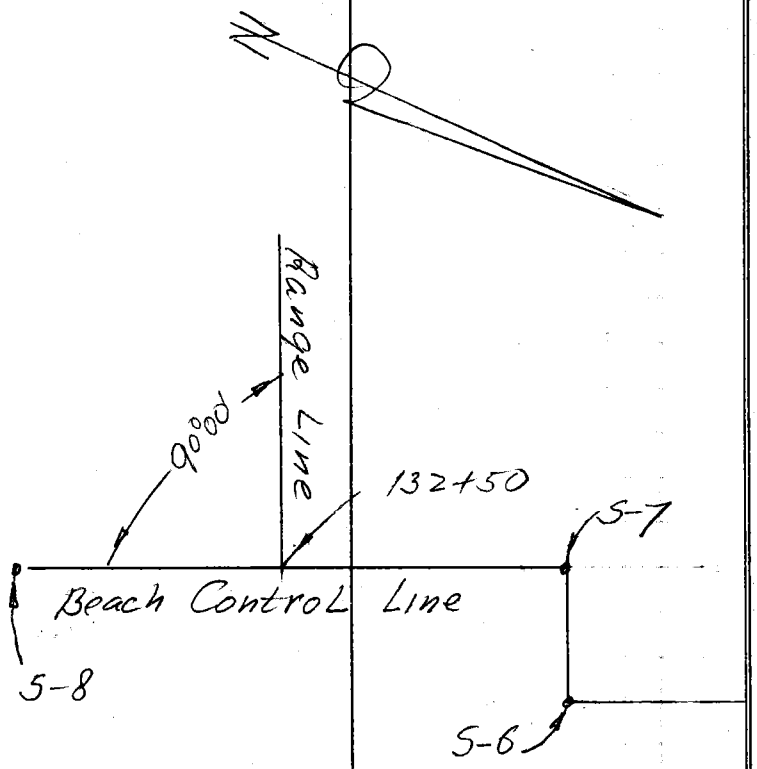
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
		1		634	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
132+50	5-8	8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 121
No. X-Sec. Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
No. Notes Chkd. J.S.H. Checked CWH Survey by Whitmyer Notes Revised Date 1-27-00
Date 8-24-60 Date 10-21-60 Map No. Indexed H.E. Ott Date

F.B. 2806 Pg. 122 | 0300.02 Job No. | Division No. 11 | Notes Red CWH | Plotted J.S.H. | Profile

Survey of Beach Erosion Studies | Date 8-16-60 | Date 10-20-60 | No.

Survey by Dharvet | Notes | Notes Chkd. J.S.H. | Checked CWH | X-Sec.

Indexed H. E. OTT | Date | Date 8-24-60 | Date 10-21-60 | No.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 132+50					
Sight On 5-8					
	# 21	Depth Rec. Adj.	Time	Hor. Ang. 90°00'	
	22			"	
	23			"	
	24			"	
	25		6 38	"	

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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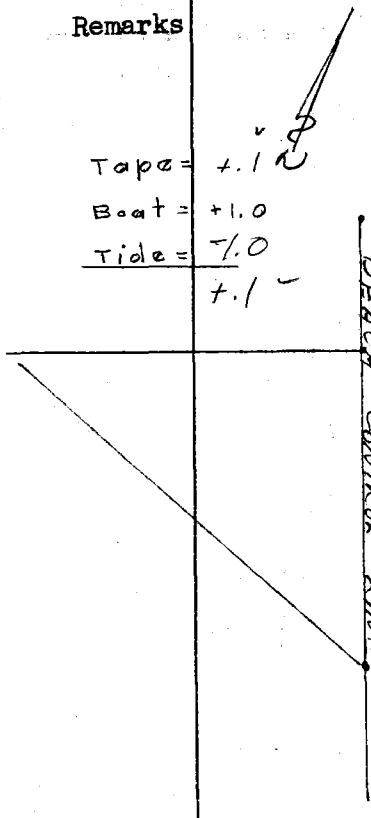
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No. | Notes Red. CWH Date 8-16-60 | Plotted J.S.H. Date 10-20-60 | Job No. 0300.02 | Division No. 11 | F.B. 2806 | Pg. 1/25
Notes Chkd. J.S.H. Date 8-24-60 | Checked CWH Date 10-21-60 | Survey of BEACH EROSION STUDIES | Survey by [illegible] Notes [illegible] Date 2-2-60
Map No. | Indexed H.E. OTT Date

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
152+50	S-7	1	33.2	33.3	6-34	49°-05'	2308	
		2	31.4	31.5		46°-33'	2112	
		3	29.3	29.4		43°-57'	1928	
		4	28.2	28.3		42°-08'	1810	
		5	27.2	27.3		40°-42'	1720	
		6	26.8	26.9		39°-05'	1624	
		7	26.3	26.4		37°-24'	1530	
		8	24.9	25.0		35°-47'	1442	
		9	24.0	24.1		34°-30'	1374	
		10	23.6	23.7		33°-29'	1322	
		11	23.8	23.9		32°-15'	1262	
		12	23.0	23.1		31°-03'	1204	
		13	21.8	21.9		29°-57'	1152	
		14	20.9	21.0		29°-03'	1110	
		15	20.4	20.5		27°-54'	1058	
		16	19.2	19.3		26°-37'	1002	
		17	17.9	18.0		25°-46'	966	
		18	16.9	17.0		24°-41'	920	
		19	15.6	15.7		23°-34'	872	
		20	14.8	14.9		22°-57'	846	

Tape = +1.0
Boat = +1.0
Tide = -1.0
+1.



76L-296 CE 307 11-58

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F.B. 2806 Pg 1/24 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by HARRIET Notes SMITH N Notes Chkd. J.S.H. Checked CWH
Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
15-2450	S-7	21	14.0	14.1		22°-03'	810	Tape = +.1
		22	12.8	12.9		20°-59'	768	Boat = +1.0
		23	12.3	12.4		20°-18'	740	Tide = -1.0
		24	11.8	11.9		19°-21'	702	+.1
		25	10.5	10.6	6-32	18°-33'	672	

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	[illegible] @ 132+50		[illegible] @ 137+50
					DATUM MEAN LOWER LOW WATER		127+50 INSHORE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
"	[illegible]	[illegible]		[illegible]			
127+50			[illegible]	[illegible]	[illegible]		[illegible]
			[illegible]		[illegible]		
—		[illegible]	[illegible]	[illegible]	[illegible]		
			[illegible]	[illegible]			[illegible] TOP BRK
			[illegible]	[illegible]			50 [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
			[illegible]	[illegible]			[illegible]
			[illegible]	[illegible]			200 [illegible]
			[illegible]	[illegible]			[illegible] PT. TOP [illegible]
T.P. [illegible]			[illegible]	[illegible]	T.P.		
	048	9 57					
T.P.	260	6 16	601	356	T.P.		
127+50			1.5	47	155°026'	295'	Mean tide line
"			51	1.1	148°059'	365'	
"			65	-0.3	143°011'	436'	
"			82	-2.0	138°17'	500'	

Profile Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11
No. X-Sec. Date 8-9-60 Date 10-20-60 Survey of [illegible]
No. Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date
Date 8-10-60 Date 10-21-60 Map No. Indexed H. E. [illegible] Date

F. B. [illegible] Pg. 12

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	↗ @ 132+50		sight on 137+50
		616					
127+50			110	-4.8	133°24'	570'	
"			128	-6.6	131°51'	603'	
"			144	-8.2	129°09'	653'	
"			157	-9.5	127°15'	692'	
			170	-10.8	124°52'	744'	

F. B. 2806 Pg. 126 Job No. 0 Division No. 11 Notes Red. J.S.H. Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No. X-Sec.
Survey by CWH Notes J.C. GRAY Notes Chkd. CWH Checked CWH
Indexed H. E. OTT Date Spread Date 8-10-60 Date 10-21-60 No.

76L-298 CE 307 11-58

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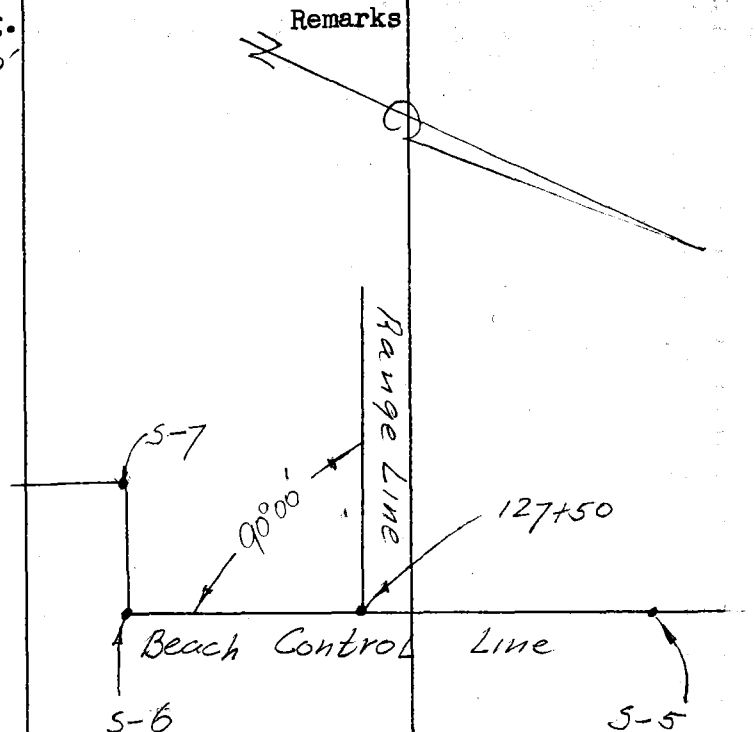
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Depth Adj.	F.S. Time	ELEV. Hor. Ang.
127+50	5-7	1			706	90°00'
		2				"
		3				"
		4				"
		5				"
		6				"
		7				"
		8				"
		9				"
		10				"
		11				"
		12				"
		13				"
		14				"
		15				"
		16				"
		17				"
		18				"
		19				"
		20				"

Remarks



Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 127
Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Survey
No. X-Sec. Notes Chkd J.S.H. Checked C.W.H. Survey by Harrick Notes Section Date 7-11-60
No. Date 8-24-60 Date 10-21-60 Map No. Indexed K. E. OH Date

F.B. 2806 Pg. 128 | Job No. 0300.02 | Division No. 11 | Notes Red CWH | Plotted J.S.H. | Profile

Survey of Beach Erosion Studies | Date 8-16-60 | Date 10-20-60 | No.

Survey by Uharriet | Notes Teeboom | Notes Chkd. J.S.H. | Checked CWH | X-Sec.

Indexed H. E. OTT | Date | Date 8-24-60 | Date 10-21-60 | No.

76L-296 CE 307 11-58

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

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 127+50					
Sight On 5-7					
	# 21	Depth Rec. Adj.	Time	Hor. Ang. 90°00'	
	22			"	
	23			"	
	24			"	
	25			"	
	26		7 06	"	

76L-298 CE 307 11-58

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

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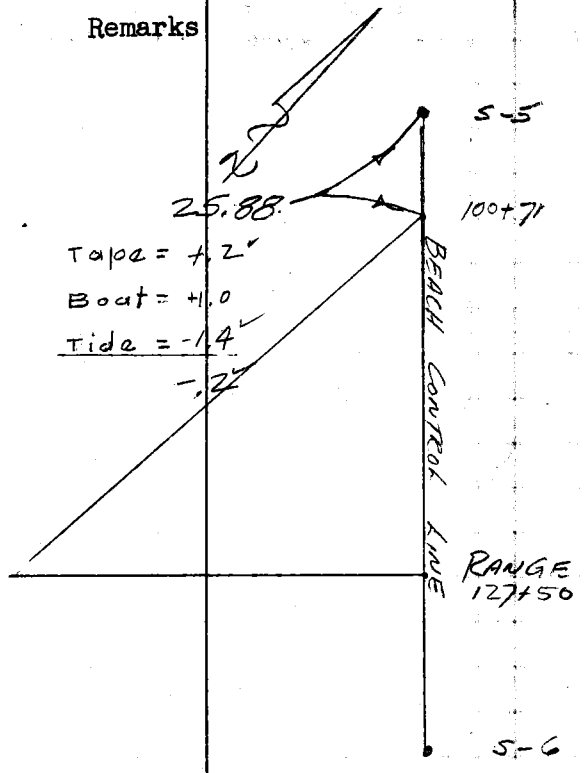
Profile No. ____ X-Sec. No. ____ Notes Red CWH Date 8-16-60 Notes Chkd JSH Date 8-24-60 Plotted JSH Date 10-20-60 Checked CWH Date 10-27-60 Job No. 0300.02 Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. ____ Division No. 11 Notes [illegible] Date 7-27-60 Indexed ____ M. E. OK Date ____ F. B. 2806 PG. 120

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
1004 71	S-6	1	27.0	26.8	7-06	32°-40'	1718	
		2	26.1	25.9		31°-35'	1647	
		3	25.7	25.5		30°-48'	1597	
		4	25.4	25.2		29°-47'	1533	
		5	24.5	24.3		28°-46'	1471	
		6	24.2	24.0		27°-41'	1405	
		7	23.3	23.1		26°-43'	1348	
		8	22.3	22.1		25°-44'	1291	
		9	21.5	21.3		25°-03'	1252	
		10	21.0	20.8		24°-01'	1194	
		11	19.5	19.3		23°-14'	1150	
		12	18.9	18.7		22°-09'	1091	
		13	17.0	16.8		21°-14'	1041	
		14	16.0	15.8		20°-25'	997	
		15	15.1	14.9		19°-48'	964	
		16	14.6	14.4		19°-11'	932	
		17	14.0	13.8		18°-26'	893	
		18	12.8	12.6		17°-55'	866	
		19	12.8	12.6		17°-18'	833	
		20	11.5	11.3		16°-35'	798	



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F.B. 2886 PG. 130 Job No. 0300-02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by WHARRET Notes SMITH N Notes Chkd. J.S.H. Checked CWH. No.
Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
1007+71	S-6	21	10.8	10.6		16°10'	777	Tape = +.2
		22	10.3	10.1		15°-30'	743	Boat = +1.0
		23	9.6	9.4		14°-54'	713	Tide = -1.4
		24	8.9	8.7		14°-22'	686	-.2
		25	8.6	8.4		13°-52'	661	
		26	7.5	7.3	7-09	13°-11'	627	

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INS-@ 117+50		SIGHT ON 122+00
T.P.	1 63	30 25		4 35	DATUM MEAN LOWER LOW WATER		122+50 INSHORE
"	5 23	30 97	1 77	25 74			
122+50			1 8	25 2	CONTROL		LINE
			4 7	25 3	18' LT. BRK. MCDM.		PVMT.
			5 0	25 0			27' RT. TOP BRK.
T.P.	0 03	20 39	10 61	20 36			
			3 5	16 9			63' RT. BTM. BRK.
			5 0	15 4			100' RT. BEACH ARCH
			6 8	13 6			200' RT. BEACH ARCH
			8 1	12 3			252' RT. TOP BRK.
T.P.			11 76	8 63			
	2 13	10 76					
T.P.	2 30	6 43	6 63	4.13	T.P.		
122+50			1.7	47	31°26'	306'	Mean tide line
"			5 3	1.1	35°58'	363'	
"			8 1	-1.7	45°11'	503'	
"			9 9	-3.5	47°30'	546'	
"			12 8	-6.4	50°28'	606'	

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. Division No. 11
No. Date 8-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Date
No. Date 8-10-60 Date 10-21-60 Map No. Indexed H. E. OH Date
F. B. 2809 Pg. 11

F. B. 7896 Pg. 132 | 03001102

Job No. | Division No. 11 | Notes Red. J.S.H. | Plotted J.S.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-9-60 | Date 10-20-60 | No.

Survey by L.W.D. H. E. OTT | Notes J.C. GOODWIN & SAPPELL | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed | Date | Date 8-10-60 | Date 10-21-60 | No.

STATION	B. S.	H. I.	F. B.	ELEV.	
122+50		30.37' 643'	150 168	(-8.6) (-10.4)	T @ 117+50
				5.39.31' 5.39.46'	676' 735'
					S.9.47 on 122+50

76L-298 S & E #307—1-56

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76L-298 CE 307 11-56

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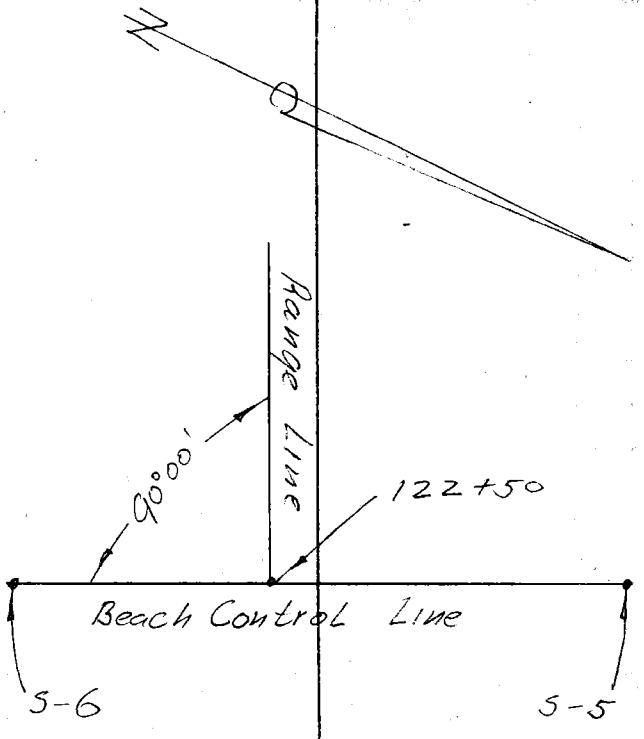
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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
122+50	5-6	1		721	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile No. ____ Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 133
X-Sec. No. ____ Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Checked CWH Survey by Harriet Notes Reviewed Date 7-27-60
Date 8-24-60 Date 10-21-60 Map No. ____ Indexed H. E. OH Date ____

F.B. 2806 Pg. 134 | 0300.02 Job No. Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-16-60 Date 10-20-60 No.

Survey by Unarried Notes Teeboom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. OM Date Date 8-24-60 Date 10-21-60 No.

76L-266 CE 307 11-58

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 122+50					
Sight On 5-6					
	21				
	22				
	23				
	24				
	25				
# Rec. Adj. Depth					
Time			7 24		
Hor. Ang.				90° 00'	

76L-298 CE 307 11-58

PLEASE RETURN TO
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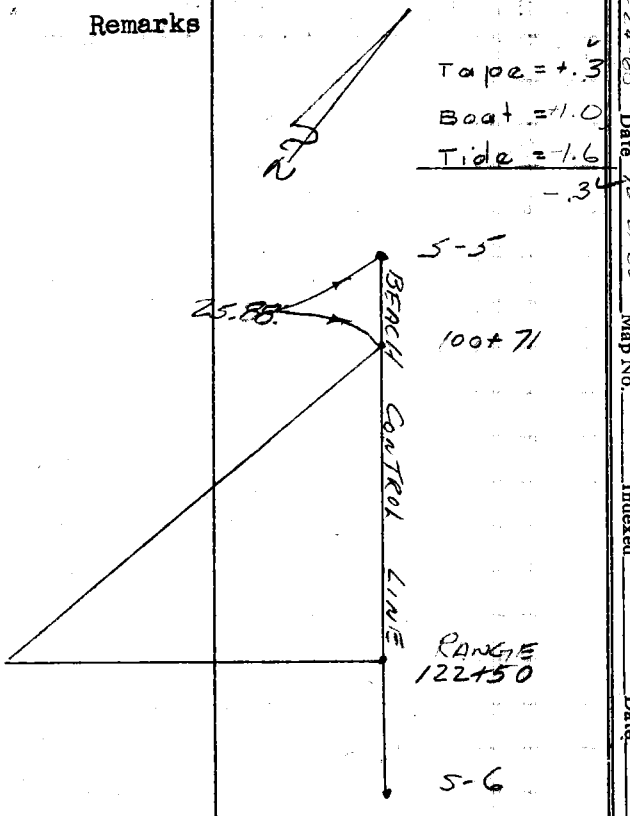
Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 28406 Pg. 135
No. X-Sec. Date 8-16-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd J.S.H. Checked CWH Survey by HHHH Notes SMITH Date 1-27-60
No. Date 8-24-60 Date 10-21-60 Map No. Indexed H.E. OH Date

STATION Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	H.I.	F.S.	ELEV.	Remarks
100+71	5-5	1	29.0	28.7	7-21	41°-12'	1907			Tape = +.3
		2	27.5	27.2		39°-35'	1802			Boat = +1.0
		3	27.1	26.8		38°-25'	1728			Tide = -1.6
		4	26.7	26.4		37°-02'	1643			-.3
		5	25.3	25.0		35°-32'	1556			
		6	24.7	24.4		34°-07'	1475			
		7	23.6	23.3		32°-45'	1401			
		8	23.3	23.0		31°-31'	1336			
		9	22.0	21.7		30°-11'	1267			
		10	21.3	21.0		28°-56'	1205			
		11	19.5	19.2		27°-10'	1118			
		12	17.7	17.4		26°-07'	1068			
		13	17.0	16.7		25°-00'	1016			
		14	15.5	15.2		24°-04'	973			
		15	14.9	14.6		23°-26'	944			
		16	13.9	13.6		22°-35'	906			
		17	13.9	13.6		22°-07'	886			
		18	13.3	13.0		21°-26'	855			
		19	11.9	11.6		20°-57'	834			
		20	13.5	13.2		22°-00'	880			



76L-298 CE 307 11-58

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F. B. 2806 Pg. 136 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by WHARPIET Notes SMITH, N Notes Chkd. J.S.H. Checked CWH
Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
100+71	S-6	21	13.2	12.9		21°35'	86 Z	Tape = +.3
		22	12.7	12.4		20°41'	823	Boat = +1.0
		23	11.2	10.9		19°52'	787	Tide = -1.6
		24	10.1	9.8		19°21'	765	-.3
		25	9.4	9.1	7-24	18°57'	748	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	⊼ @ 112+50		sight on 117+50
		20.37			DATUM MEAN LOWER LOW WATER		117+50 INSHORE
T.P.	7.29	21.05	6.63	13.76			
117+50			12.1	33.1	JOINT EDGE LINE		
			1.4	30.4			24' RT. TOP BRK.
			2.2	18.9			54' RT. TOP BRK.
			5.1	15.9			100' RT. BEGIN HIGH
			7.3	13.7			200' RT. BEGIN DIKE
			9.1	11.9			243' RT. TOP BRK.
T.P. FOR SWIM DATA			11.36	9.69			
	1.11	10.80					
T.P.	1.95	6.55	6.25	4.55	T.P.		
117+50			1.8	4.7			381' RT. Mean tide line
"			50	1.5	34°46'	347'	
"			58	0.7	37°58'	390'	
"			68	-0.3	41°09'	437'	
"			83	-1.8	45°00'	500'	
"			112	-4.7	48°30'	565'	
"			140	-7.5	51°26'	627'	

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. Division No. F. B.
Date 8-9-60 Date 10-20-60 Survey of Fr. Pt. to Sta. 37+00 Pg. 131
No. X-Sec. Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Date
No. Date 8-11-60 Date 10-21-60 Map No. Indexed H. E. Ott Date

F. B. 2806 PG. 158 | 0300162

Job No. | Division No. 11 | Notes Red. J.S.H. | Plotted J.S.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-9-60 | Date 10-20-60 | No.

Survey by LIND | Notes J.C. GOODWIN | Notes Chkd. CWH | Checked CWH. | X-Sec.

Indexed H. E. OTT | Date | Date 8-10-60 | Date 10-21-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
117+50					
		6.50'			
			154	-8.9'	
			165	(10.0)	
				59.13'	695'±
				59.13'	748'±
					T @ 112+50
					SIGHT ON 117+50

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76L-298 S & E #307—1-56

76L-296 CE 307 11-58

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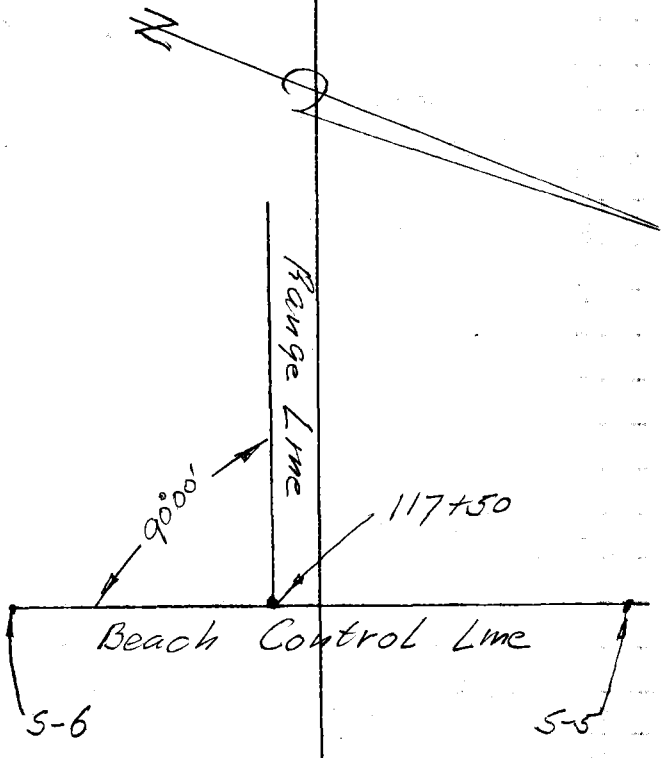
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		7 36	90°00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
117+50	5-6	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. X-Sec. No. Notes Red CWH Plotted J.S.H. Job No. 03000.02 Division No. 11 F.B. 2806 PG. 139
Date 8-16-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Checked CWH Survey by Channel Navigation 7-27-60
Date 8-24-60 Date 10-21-60 Map No. Indexed H. E. Ott Date

F.B. 2806 Pg. 140 | Job No. 030002 | Division No. 11 | Notes Red C.W.H. | Plotted J.S.H. | Profile

Survey of Beach Erosion studies | Date 8-16-60 | Date 10-20-60 | No.

Survey by Charvet & E. Ott | Notes Teeboom | Notes Chkd. J.S.H. | Checked C.W.H. | X-Sec.

Indexed | Date | Date 8-24-60 | Date 10-21-60 | No.

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 117+50					
Sight On S-6					
# Rec. Adj. Depth	21 22				
Time			7 39		
Hor. Ang.				90° 00'	

76L-298 CE 307 11-58

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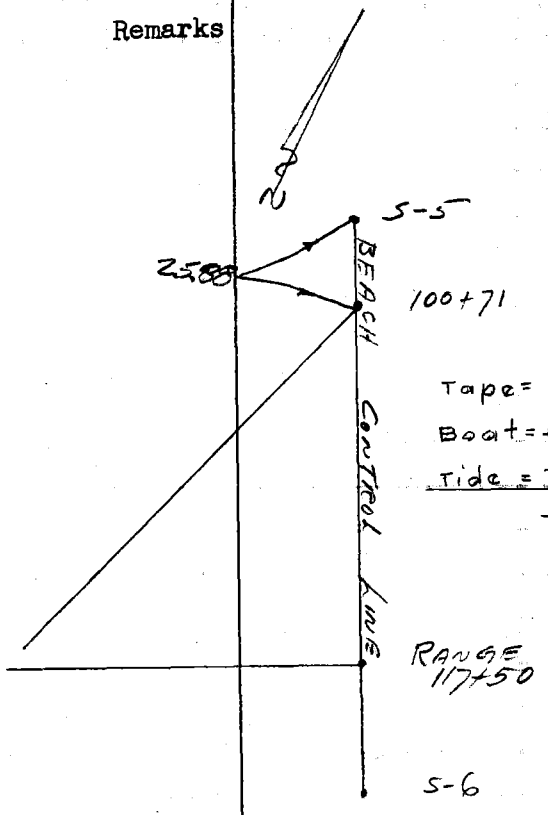
Profile No. ____ X-Sec. No. ____ Notes Red. CWH Date 8-16-60 Plotted J.S.H. Date 10-20-60 Job No. 0300.02 Division No. 11 Survey of BEACH EROSION STUDIES Notes Chkd. J.S.H. Date 8-24-60 Checked CWH Date 10-21-60 Map No. ____ Indexed H. E. OTT Date ____

F.B. 2806 PG. 141

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
100+71	S-5	1		28.3	27.6	7-36	48°-20'	1887	
		2		27.2	26.5		46°-49'	1790	
		3		26.4	25.7		45°-23'	1703	
		4		25.6	24.9		43°-55'	1617	
		5		25.1	24.4		42°-30'	1538	
		6		24.5	23.8		40°-54'	1454	
		7		23.5	22.8		38°-37'	1342	
		8		23.1	22.4		36°-50'	1258	
		9		22.1	21.4		35°-11'	1184	
		10		21.2	20.5		33°-45'	1122	
		11		19.5	18.8		32°-49'	1083	
		12		18.3	17.6		31°-41'	1036	
		13		17.6	16.9		30°-46'	999	
		14		16.5	15.8		29°-42'	957	
		15		15.3	14.6		28°-25'	908	
		16		13.9	13.2		27°-24'	870	
		17		12.9	12.2		26°-29'	836	
		18		12.1	11.4		25°-20'	794	
		19		11.1	10.4		24°-33'	767	
		20		10.2	9.5		23°-54'	744	



Tape = +.1
Boat = +1.0
Tide = -1.8
-.7

76L-298 CE 307 11-58

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F.B. 2806 Pg. 142 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No. X-Sec.
Survey by WHARRIE & SMITH Notes Notes Chkd. J.S.H. Checked CWH. No.
Indexed Date Date 8-24-60 Date 10-21-60

STATION		B.S.	H.I.		F.S.	ELEV		
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.		Remarks
100+71	5-6	21	9.6	8.9		23°06'	717	Tape = +.1
		22	9.1	8.4	7-39	22°36'	698	Boat = +1.0
								Tide = -1.8
								-.7

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 107+50		SIGHT ON 112+50
		21 05			DATUM MEAN LOWER LOW WATER		112+50 INSHORE
T.P.	6 59	20 87	6 77	14 28			
C+50		+	9 9	3 8	CONTROL	LINE	
		+	10 2	3 1			17' RT. TOP BRK.
			9 9	[illegible]			47' RT. BTM BRK.
—			4 7	16 2			100' RT. BELOW AREA
			7 2	13 7			200' RT. BELOW AREA
			8 3	12 6			241' RT. TOP BRK.
T.P.			10 59	10 28			
	0 92	11.20					
T.P.	1 75	7 07	5 99	5.32	T.P.		
112+50			2.4	4 7	30°19'	292'	Mean tide line
"			6 4	0.7	36°02'	364'	
"			7 7	-0.6	42°10'	453'	
"			10 1	-3.0	46°45'	532'	
"			12 5	-5.4	48°47'	571'	
"			14 8	-7.7	50°54'	615'	
—			16 2	-9.1	53°32'	677'	

Profile No. Notes Red. J.S.H. Plotted J.S.H. Job No. Division No.
Date 5-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
X-Sec. No. Notes Chkd. CWH Checked CWH Survey by Notes Date
Date 5-10-60 Date 10-21-60 Map No. Indexed H. E. OH Date

F. B. 16 Pg. 143

F. B. 2806 PG. 144 0300.02

Job No. Division No. 11 Notes Red Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LIND Notes J.C. GOODWIN Notes Chkd. CWH Checked X-Sec.

Indexed Date Date 8-10-60 Date No.

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

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76L-298 S & E #307—1-56

76L-296 CE 307 11-58

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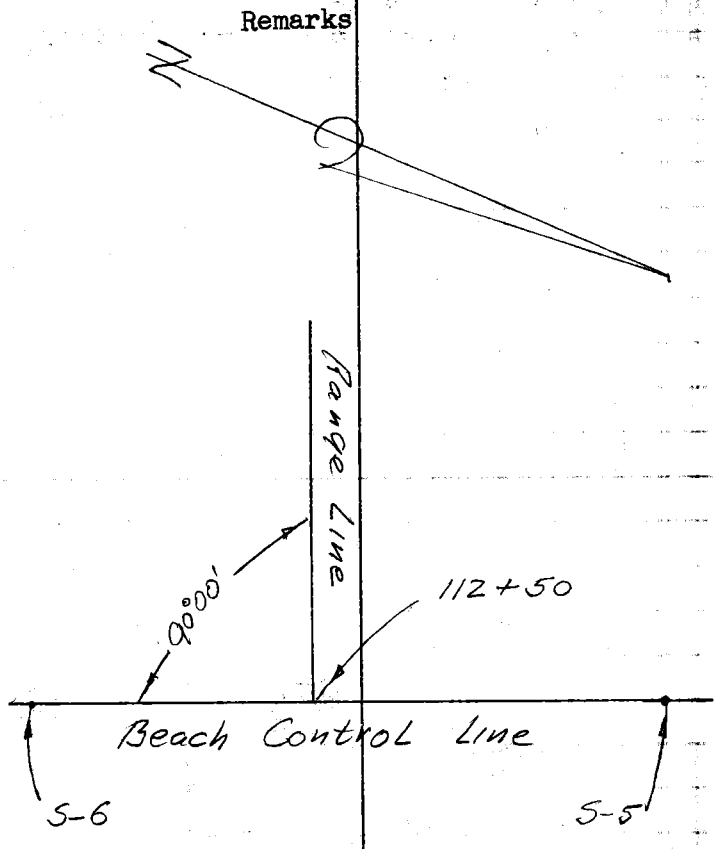
STATION		B.S.	H.I.	F.S.	ELEV.		
st.	Sight		Depth				
t	On	#	Rec. Adj.	Time	Hor. Ang.		Remarks
		1		7 53	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
112+50		8			"		
	5-6	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11
X-Sec. Date 8-16-60 Date 10-20-60 Survey of Beach Elevations
Notes Chkd. J.S.H. Checked CWH Survey by Martin Notes Date 9-27-60
No. Date 8-24-60 Date 10-21-60 Map No. Indexed Off Date

F.B. 2806 Pg. 145

F.B. 2806 Pg. 146 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-16-60 Date 10-20-60 No. _____

Survey by Dharriet Notes Teeboom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. OTT Date _____ Date 8-24-60 Date 10-21-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 112+50					
Sight On 5-6					
# Rec. Adj. Depth	21 22				
Time			7 55		
Hor. Ang.				90° 00'	

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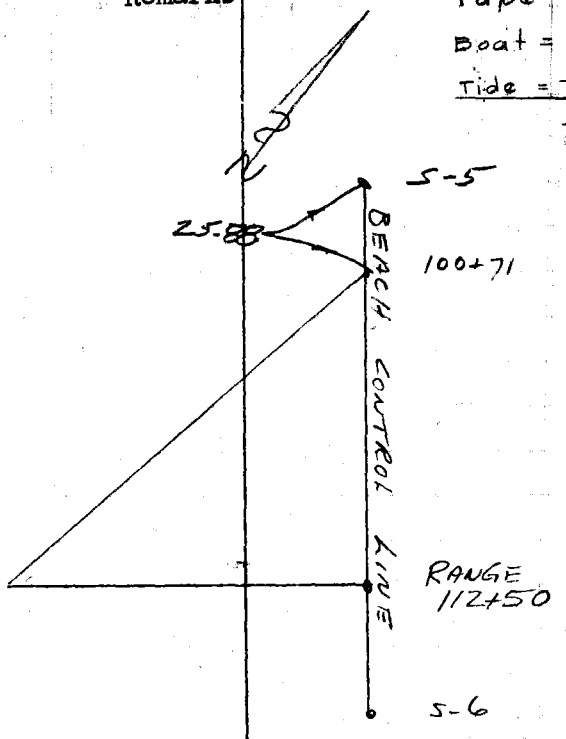
Profile No. ____ Notes Red CWH Plotted J.S.H. Job No. 0300.0 Division No. 11 F.B. 2806 Pg. 147
X-Sec. No. ____ Notes Chkd. J.S.H. Checked CWH Date 10-26-60 Survey of BEACH ESCOSURE Survey by DUARTE Notes ~~SHEETING~~ 5-24-60 ST. DIES
Date 8-24-60 Date 10-21-60 Map No. ____ Indexed H. & OH Date ____

STATION		B.S.	H.I.		F.S.	ELEV.		Remarks
ast. at	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		
		1	28.6	27.6	7-53	58°-20'	1911	Tape = 0'
		2	27.2	26.2		56°-56'	1811	Boat = +1.0
		3	26.8	25.8		55°-29'	1714	Tide = -2.0
		4	25.8	24.8		54°-00'	1622	-1.0
		5	25.2	24.2		52°-37'	1543	
		6	24.2	23.2		50°-57'	1454	
		7	24.2	23.2		49°-22'	1374	
		8	23.3	22.3		47°-31'	1287	
		9	22.5	21.5		45°-35'	1204	
		10	21.9	20.9		43°-29'	1118	
		11	19.1	18.1		41°-31'	1043	
		12	18.8	17.8		40°-17'	1000	
		13	17.0	16.0		39°-01'	955	
		14	16.0	15.0		38°-03'	923	
		15	15.3	14.3		37°-08'	893	
		16	14.4	13.4		36°-11'	862	
		17	13.8	12.8		35-18	835	
		18	12.6	11.6		34°-13'	802	
		19	12.5	11.5		33°-35'	783	
		20	11.6	10.6		32°-34'	753	



100+71
5-6

F.B. 2806 PG. 148

Job No. 030002 Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-16-60 Date 10-20-60 No.

Survey by UHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked CWH. X-Sec.

Indexed H. E. OTT Date Date 8-24-60 Date 10-21-60 No.

76L-298 CE 307 11-58

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STATION	Inst. At	Sight On	B.S.	#	Depth Rec.	Adj.	H.I.	Time	F.S.	Hor. Ang.	ELEV.	Remarks
100+71		5-6		21	10.5	9.95				31°42'		
				22	10.1	9.1		7.55		30°52'		
										729		
										705		

Tape = 0
Boat = +1.0
Tide = -2.0
-1.0

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST @ 102+50		SHOT ON 107+50
		23.87			DATUM MEAN LOWER LOW WATER		107+50 INSHORE
T.P.	4.53	18.72	6.68	14.19			
107+50			[illegible]	[illegible]	CONTROL		LINE
			[illegible]	[illegible]			37' RT. TOP BRK.
			1.0	17.7			50' RT. START BRK.
			[illegible]	[illegible]			100' RT. BEGIN AREA
			[illegible]	[illegible]			200' RT. BEGIN AREA
			6.5	12.2			245' RT. TOP BRK.
T.P.			[illegible]	7.95			
	0.53	8.43					
107+50			3.8	4.7	30°19'	292'	Mean tide line
"			7.3	1.2	34°42'	346'	
"			7.8	0.7	38°18'	395'	
"			9.0	-0.5	41°45'	446'	
"			11.3	-2.8	45°44'	513'	
"			14.6	-6.1	48°18'	561'	
"			16.8	-8.3	51°12'	622'	
"			17.5	-9.0	53°50'	684'	

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. CWH Checked CWH Survey by Date
No. Date Date Map No. Indexed H.E. Date

F. B. Pg. 147

F. B. 2806 Pg. 150 | Job No. 9300.02 | Division No. 11 | Notes Red. | Plotted | Profile

Survey of BERM 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.

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

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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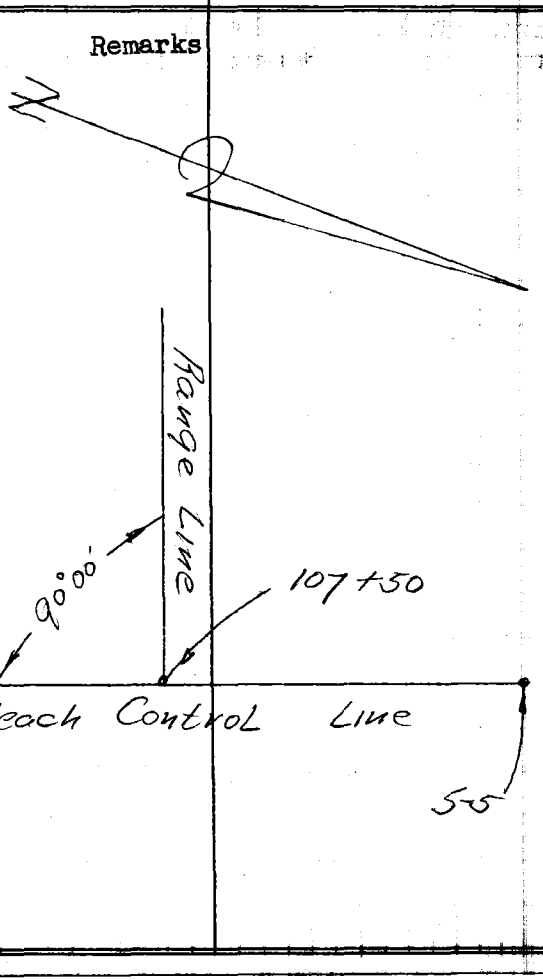
Do not extend notes this side of this line.

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



Profile Notes Red CWH Plotted J.S.H. Job No. 2300.02 Division No. 11 F.B. 2806 Pg. 151
Date 8-17-60 Date 10-20-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. J.S.H. Checked CWH Survey by Harriet Notes Polyner Date 7-27-60
No. Date 8-25-60 Date 10-21-60 Map No. Indexed H. E. Ott Date

F.B. 2806 Pg. 152 | 0300.02

Job No. ____ Division No. 11 Notes Red CWH. Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-17-60 Date 10-20-60 No. ____

Survey by Charriet Notes Tee boom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. OTT Date ____ Date 8-25-60 Date 10-21-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 107+50					
Sight On 5-6					
	21				
	22				
	23				
	24				
	26				
	27				

# Rec.	Depth Adj.	Time	Hor. Ang.
			90°00'
			"
			"
			"
			"
		8 20	"

Do not extend notes this side of this line.

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76L-296 CE 307 11-58

76L-298 CE 307 11-58

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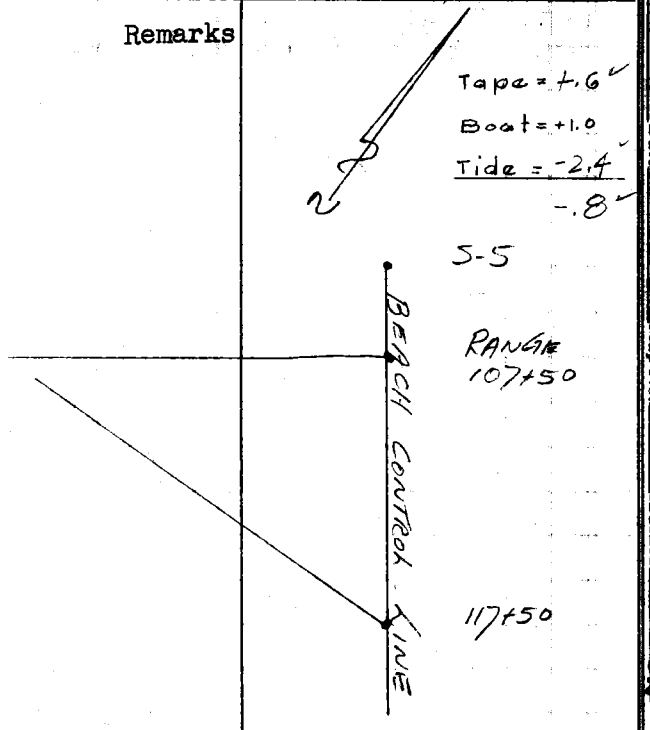
Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 PG. 153
~~No. Date 8-12-60 Date 10-28-60 Survey of BEACH EROSION STUDIES~~
X-Sec. Notes Chkd. J.S.H. Checked CWH Survey by WHARR-1 Notes SMITH Date 7-27-60
No. Date 8-25-60 Date 10-21-60 Map No. Indexed H.E. OTT Date

STATION		B.S.	H.I.		F.S.	ELEV.		Remarks
st. t	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		
		1	29.1	28.3	8-16	63°-10'	1977	
		2	28.5	27.7		62°-15'	1901	
		3	27.5	26.7		60°-49'	1791	
		4	26.3	25.5		58°-48'	1651	
		5	25.5	24.7		57°-34'	1574	
		6	24.6	23.8		55°-53'	1476	
	S-5	7	24.2	23.4		54°-05'	1381	
		8	23.6	22.8		52°-22'	1297	
		9	22.9	22.1		50°-31'	1214	
		10	20.9	20.1		48°-14'	1120	
		11	20.0	19.2		46°-53'	1068	
		12	19.1	18.3		45°-35'	1021	
		13	18.0	17.2		44°-28'	982	
		14	17.1	16.3		43°-27'	947	
		15	16.1	15.3		42°-47'	925	
		16	15.0	14.2		42°-04'	903	
		17	14.2	13.4		41°-04'	871	
		18	13.5	12.7		39°-57'	838	
		19	13.0	12.2		39°-06'	813	
		20	12.0	11.2		38°-24'	793	



76L-298 CE 307 11-58

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F.B. 2806 Pg. 154 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile No.
Survey of BEACH EROSION STUDIES Date 8-17-60 Date 10-20-60 X-Sec. No.
Survey by CHARLE T. SMITH N Notes Checked J.S.H. Checked CWH
Indexed H. E. Ott Date Date 8-25-60 Date 10-21-60

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor.Ang.	Remarks
117+50	S-5	21	11.2	10.6		37°-43'	773	Tape = +.8
		22	10.9	10.3		36°-38'	744	Boat = +1.0
		23	10.3	9.7		35°-40'	718	Tide = -2.4
		24	9.4	8.8		34°-51'	696	-.6
		25	8.9	8.3		33°-53'	672
		26	8.4	7.8		32°-56'	648
		27	7.8	7.2	8-20	31°-58'	624

76L-298 S & E #307—1-56

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Profile No. X-Sec. No. Notes Red. J.S.H. Date 8-7-60 Plotted J.S.H. Date Job No. Survey of Division No. Notes Chkd. CWH Date Checked CWH Date Survey by Date Notes Date Date 3-7-60 Date Map No. Indexed H. E. Ott Date

F. B. 6 Pg. 155

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 107+50		SHOT OR 102+50
		18.72			DATUM MEAN LOWER LOW WATER		102+50 INSHORE
T.P.	2.45	11.37	4.58	14.12			
103+50			12.5	31.7	CONTROL LINE		
			15.1	34.2			10' RT. [illegible]
		+	5.1	24.2			[illegible] RT. [illegible]
			[illegible]	[illegible]			100' RT. BEAC[illegible]
			5.5	13.6			200' RT. BE[illegible]
			7.3	11.8			242' RT. TOP BE[illegible]
T.P.			11.67	7.42	T.P.		
	0.67	8.09					
102+50			3.4	4.7	30°40'	296'	Mean high tide
"			6.5	1.6	33°58'	337'	
"			7.8	-0.3	40°46'	431'	
"			8.8	-0.7	44°06'	485'	
"			10.4	-2.3	47°13'	540'	
"			12.7	-4.6	50°31'	607'	
"			14.7	-6.6	52°43'	657'	
"			16.8	-8.7	54°44'	707'	

F. B. 28-6 Pg. 156

Job No. _____ Division No. _____ 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.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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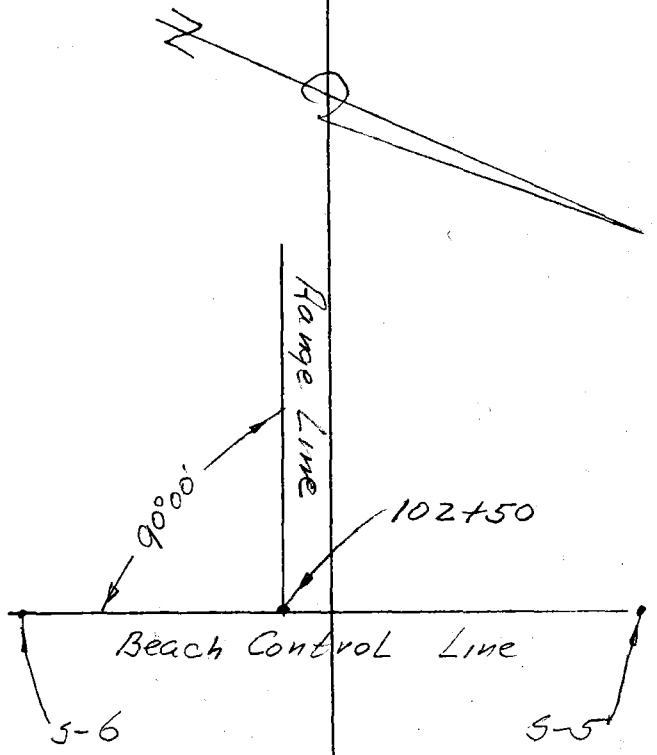
22 22 **Do not extend notes this side of this line.**

STATION		B.S.	H.I.	F.S.	ELEV.	
st.	Sight		Depth			
t	On	#	Rec. Adj.	Time	Hor.Ang.	Remarks
		1		8 31	90° 00	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
102+50		7			"	
	5-6	8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red CMH Plotted J.S.H. Job No. 030002 Division No. 11
Date 8-12-60 Date 10-10-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. J.S.H. Checked CMH Survey by Harvey Notes ~~Reviewed~~ ~~Date~~
No. Date 8-25-60 Date 10-21-60 Map No. Indexed H.E. OH Date

F.B. 2806 Pg. 157

F.B. 2806 Pg. 158 | 0300.02

Job No. ____ Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-17-60 Date 10-20-60 No. ____

Survey by Marriet Notes Teeboom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. Ott Date ____ Date 8-25-60 Date 10-21-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 102+50					
Sight On 5-6					
	# 21 22	Depth Rec. Adj.	Time 8 34	Hor. Ang. 90° 00'	

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76L-296 CE 307 11-58

76L-298 CE 307 11-58

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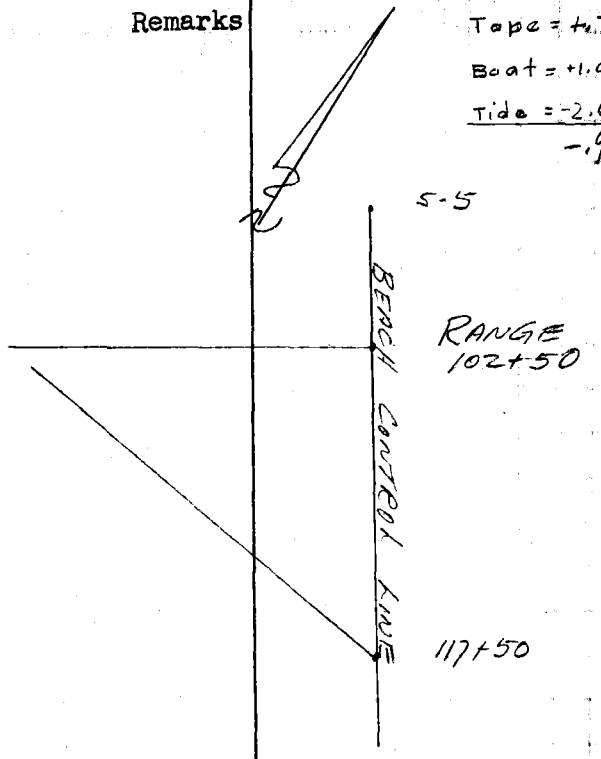
Profile No. ____ Notes Red. CWH Plotted J.S.H. Job No. 0300 Division No. 11
X-Sec. No. ____ Date 8-17-60 Date 10-20-60 Survey of Sidewalk
Notes Chkd. J.S.H. Checked CWH Survey by CHARCHET Notes SMITH Date 7-27-60
Date 8-25-60 Date 10-21-60 Map No. ____ Indexed ____ Date ____ H. E. OH Date ____

F.B. 2806 Pg. 159

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
st. Sight / t On	#	Depth Rec. / Adj.	Time	Hor. Ang.		
	1	29.1 / 28.2	8-31	52°-27'	1952	Tape = +4.7
	2	27.8 / 26.9		50°-27'	1817	Boat = +1.0
	3	26.3 / 25.4		48°-40'	1706	Tide = -2.6
	4	25.2 / 24.3		46°-57'	1607	-.9
	5	24.7 / 23.8		44°-55'	1496	
117+50	6	23.8 / 22.9		43°-00'	1400	5-5
	7	23.1 / 22.2		41°-25'	1323	RANGE 102+50
5-5	8	22.5 / 21.6		39°-32'	1238	
	9	21.3 / 20.4		38°-00'	1172	
	10	20.1 / 19.2		36°-13'	1098	
	11	19.2 / 18.3		35°-01'	1052	
	12	17.7 / 16.8		33°-47'	1004	
	13	17.5 / 16.6		33°-00'	974	
	14	16.1 / 15.2		31°-45'	929	
	15	15.1 / 14.2		30°-37'	888	
	16	14.6 / 13.7		29°-27'	848	
	17	13.2 / 12.3		28°-00'	798	
	18	11.7 / 10.8		26°-56'	762	
	19	10.6 / 9.7		25°-51'	728	
	20	9.5 / 8.6		24°-37'	687	



F.B. 2806 Pg. 160 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-17-60 Date 10-20-60 No.

Survey by HARRIET SMITH N Notes Notes Chkd. J.S.H. Checked C.W.H. X-Sec.

Indexed H. E. OTT Date Date 8-25-60 Date 10-21-60 No.

761-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 117+50					
Sight On 5-5					
#	21	22			
Depth Rec.	9.0'	7.4'			
Adj.	8.1'	6.5'			
Time			8:34		
Hor. Ang.	23°40'	22°49'		657'	
				632'	
					Tape = +.7
					Boat = +1.0
					Tide = -2.6
					-.9'

76L-298 S & E #307—1-56

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	5.5 ⊼ @ 100 + 45.12		Sight on. 97+50
		19 09			DATUM MEAN LOWER LOW WATER		97 + 50 INSHORE
T.P.	5 71	18 47	6 35	12 74			
			13 8	32 3	CONTROL LINE		
			13 0	31 5			30' RT. TOD BRK.
			2 2	16 5			76' RT. BTM. BRK.
			3 7	14 8			120' RT. BEGIN ARL.
			4 6	13 9			200' RT. BEGIN HRED
			6 1	12 4			244' RT. TOD BRK.
T.P.			4 18	7 30	T.P.		
T.B.M.			0 94	17 77			
TP	0 91	8.1		7 30	T.P. above.		
97+50			3.4	4 7	44°51'	294'	Mean tide Line
"			67	~~2.6~~ 1.4	50°19'	356'	
"			81	0.0	55°35'	431'	
"			99	-1.8	60°24'	519'	
"			118	-3.7	62°43'	572'	
"			142	-6.1	64°32'	620'	
"			165	-8.4	66°23'	675'	

Profile No. ____ Notes Red. J.S.H. Plotted J.S.H. Job No. ____ Division No. ____
Date 5-2-60 Date 10-20-60 Survey of ____
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date ____
Date 5-[illegible] Date 10-2-60 Map No. ____ Indexed H. E. [illegible] Date ____

F. B. [illegible] Pg. 161

F. B. 2906 Pg. 162

Job No. 300 02 Division No. 11 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.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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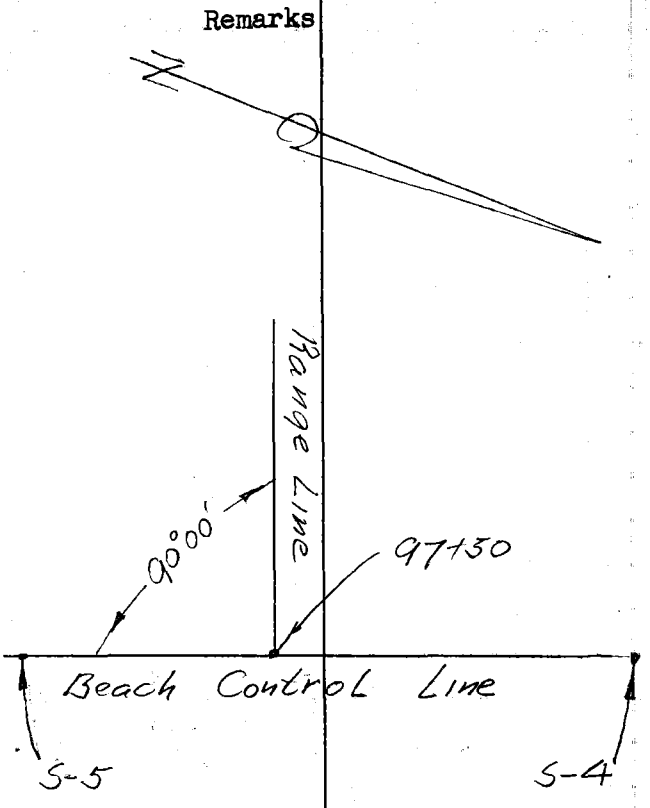
Profile Notes Red CWH Plotted J.S.H. Job No. Division No. 11 F.B. 2806 Pg. 163
Date 8-17-60 Date 10-20-60 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. JSH Checked CWH Survey by Wagner Notes Telecom Date 7-27-60
No. Date 8-25-60 Date 12-21-60 Map No. Indexed H. E. Ott Date

0300.02

STATION		B. S.	H. I.	F. S.	ELEV.		
st. t	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		850	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
97+50	5-5	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



F.B. 2806 Pg. 164 | 030002 Job No. Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-17-60 Date 10-20-60 No.

Survey by ~~W. E. OH~~ Wharrett Notes Tee boom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed Date Date 8-25-60 Date 10-21-60 No.

76L-298 CE 307 11-58

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Inst. At	Sight On	Depth # Rec. Adj.	Time	Hor. Ang.	Remarks	STATION	B.S.	H.I.	F.S.	ELEV
97+50	5-5	21		90° 00'						
		22		"						
		23		"						
		24		"						
		25		"						
		26		"						
		27		"						
		28		"						
		29	8 55	"						

76L-298 CE 307 11-58

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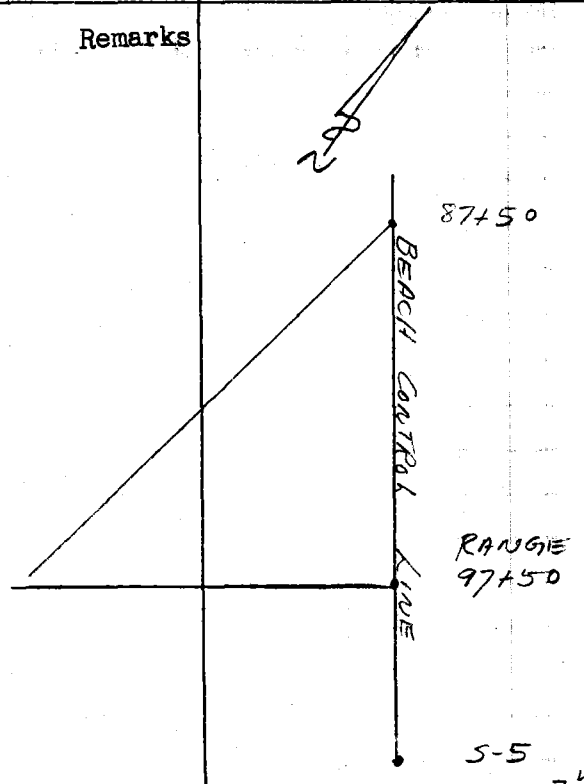
Profile No. ____ Notes Red CWH Plotted J.S.H Job No. 0300.02 Division No. 11 F.B. 2806 PG. 165
X-Sec. No. ____ Notes Chkd. J.S.H Checked CWH Survey by [illegible] Notes [illegible] Date 7-27-60
Date 8-25-60 Date 10-20-60 Date 10-21-60 Map No. ____ Indexed H. E. OTT Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		
st. Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	1	29.6 / 28.4	8-50	63°46'	2029	
	2	29.0 / 27.8		63°03'	1967	
	3	27.7 / 26.5		61°47'	1864	
	4	27.7 / 26.5		60°23'	1759	
	5	26.1 / 24.9		59°05'	1670	
	6	25.7 / 24.5		57°49'	1589	
	7	25.4 / 24.2		55°53'	1476	
	8	24.1 / 22.9		53°50'	1368	
	9	23.4 / 22.2		52°06'	1285	
	10	23.1 / 21.9		51°09'	1242	
	11	22.2 / 21.0		50°04'	1195	
	12	21.5 / 20.3		48°56'	1148	
	13	20.7 / 19.5		47°59'	1110	
	14	20.4 / 19.2		47°12'	1080	
	15	19.3 / 18.1		46°14'	1044	
	16	18.0 / 16.8		45°06'	1004	
	17	18.0 / 16.8		44°07'	970	
	18	17.0 / 15.8		43°09'	937	
	19	16.2 / 15.0		42°31'	917	
	20	16.0 / 14.8		41°42'	891	



Tape = +.7
Boat = +1.0
Tide = -2.9
-1.2

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

F.B. 2806 PG. 166 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-17-60 Date 10-20-60 No. X-Sec.
Survey by WHARRIET Notes SMITH N Notes Chkd. J.S.H. Checked CWH
Indexed H. E. OTT Date Date 8-25-60 Date 10-21-60 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
87+50	S-5	21	14.6	13.4		40°43'	861	Tape = +.7
		22	14.2	13.0		39°30'	824	Boat = +1.0
		23	12.9	11.7		38°37'	799	Tide = -2.9
		24	12.5	11.3		37°42'	773	-1.2
		25	11.2	10.0		36°43'	746	
		26	11.0	9.8		35°45'	720	
		27	10.8	9.6		34°44'	693	
		28	10.0	8.8		34°04'	676	
		29	9.2	8.0	8-55	32°54'	647	

Notes Ck'd by: J.S.H.	Survey of: Beach Erosion Studies F. B. 2806 Pg. 167
Map No.	JN 030002 Tape Std °F
Office Work: J.S.H.	Surveyed by: Uharriet
Checked: C.W.H.	Notes: Blanchard Date: 7-28-60
Date: 8-5-60	Indexed: H. E. Ott

TIDE GAUGE READINGS

JULY 28, 1960

DATUM - MLLW

TIME - P.S.T.

TIME P.S.T.	GAUGE READING MLLW
5:00	20
5:30	10
6:00	09
6:30	11
7:00	12
7:30	15
8:00	19
8:30	22
9:00	27
9:30	32
10:00	36
10:30	39
11:00	42

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783098 CE #247—7-55

F. B. 2806 PG. 168

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76L-298 S & E #307—1-56

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Profile Notes Red JSH Plotted JSH Job No. Division No.
No. X-Sec. Date Date Survey of
Notes Chkd. CWH Checked CWH Survey by Notes Date
No. Date Date Map No. Indexed H. E. Ott Date
F. B. Pg.

STATION	S. S.	H. I.	F. S.	ELEV.		
					Inst. @ 97+50	Inst. @ 92+50
	2.50	10.37		12.93	DATUM MEAN LOWER LOW WATER	92+50 INSHORE
T.P.	5.40	[illegible]	2.37	13.03		
[illegible]			15.4	33		
			14.3	5.4		23' RT. [illegible]
			1.3	1.1		57' RT. [illegible]
			3.1	[illegible]		[illegible] RT. [illegible]
			[illegible]	[illegible]		200 RT. [illegible]
			[illegible]	1.1		127 RT. [illegible]
[illegible]			[illegible]	7.76	T.P.	
	0.05	7.81				
92+50			3.1	4.7		307 RT. Mean tide line
T.P.	2.97	5.72	5.06	2.75	T.P.	
92+50			61	-0.4	39° 16' 409'	
"			70	-1.3	44° 08 485'	
"			99	-4.1	47° 51' 552'	
"			123	-6.6	50° 40' 610'	
"			147	-9.0	54° 20' 697'	
"			162	-10.5	56° 30' 755'	

F. B. 2806 Pg. 170

Job No. 030012 Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LIND Notes J.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed H. E. OTT Date Date Date No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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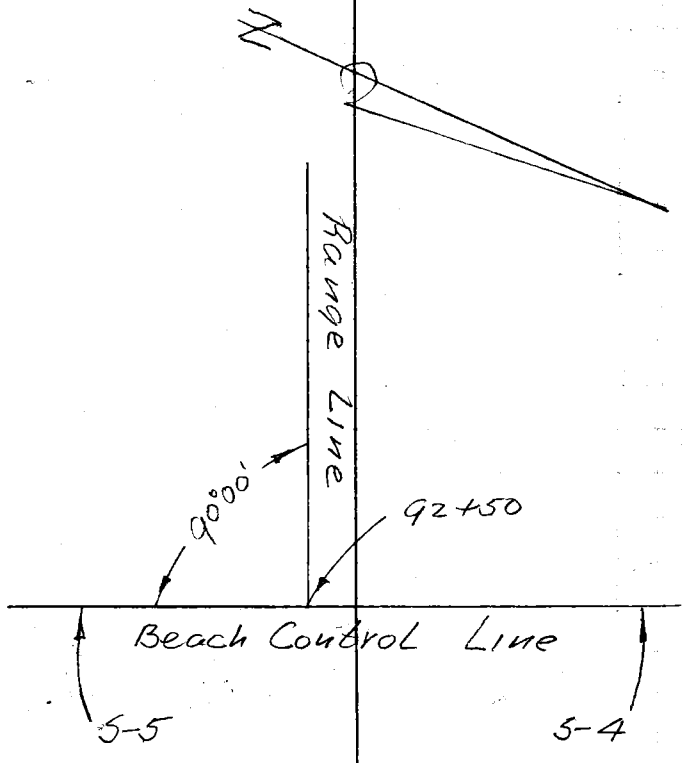
Profile No. X.Sec. No. Notes Red. CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 171
Date 8-11-60 Date 11-10-60 Survey of Beach Erosion Studies
Notes Chkd. JSH Checked CWH Survey by Dhartley Notes Reduced Date 7-20-86
Date 8-25-60 Date 10-21-60 Map No. Indexed H. E. Ott Date

STATION		B.S.	H.I.	F.S.	ELEV.	
ast.	Sight		Depth			
t	On	#	Rec. Adj.	Time	Hor.Ang.	Remarks
		1		516	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
92+50	5-5	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



F. B. 2806 Pg. 172 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-17-60 Date 10-20-60 No. _____

Survey by Pharriet Notes Teeboom Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. Ott Date _____ Date 8-25-60 Date 10-21-60 No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 92+50					
Sight On 5-5					
	# 21				
	22				
	23				
	24				
Depth Rec. Adj.					
Time			5 16		
Hor. Ang.				28°00'	

Do not extend notes this side of this line.

76L-298 CE 307 11-58

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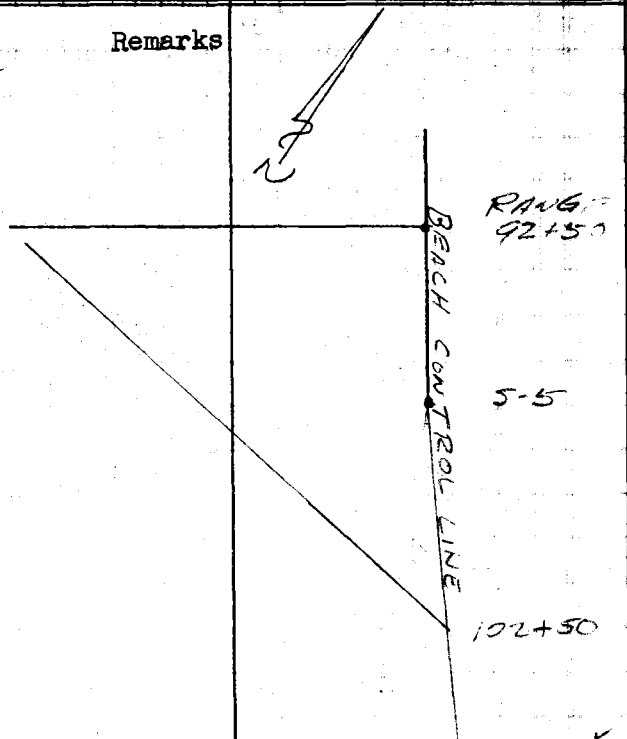
Profile No. X Sec. No. ____ Notes Red. CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 173
Notes Chkd. J.S.H. Date 8-18-60 Date 8-18-60 Survey of Beach Control Line
Date 8-26-60 Checked CWH Date 10-21-60 Survey by Marshall Notes Taken Date 7-28-60
Date ____ Map No. ____ Indexed ____ H. E. OR Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
st. Sight t On	#	Depth Rec. Adj.	Time	Hor. Ang.		
5-5	1	27.4 28.3	5-16	62°04'	2029'	
	2	26.5 27.4		61°02'	1940'	
	3	26.0 26.9		60°11'	1870'	
	4	25.5 26.4		59°01'	1784'	
	5	24.5 25.4		57°52'	1702'	
	6	24.4 25.3		56°24'	1603'	
	7	23.5 24.4		54°36'	1496'	
	8	22.8 23.7		53°12'	1419'	
	9	21.9 22.8		51°43'	1344'	
	10	21.3 22.2		50°14'	1274'	
	11	20.3 21.2		48°08'	1180'	
	12	18.4 19.3		45°54'	1091'	
	13	17.1 18.0		44°48'	1051'	
	14	16.8 17.7		43°45'	1014'	
	15	15.8 16.7		42°35'	974'	
	16	14.6 15.5		41°41'	943'	
	17	14.0 14.9		40°08'	892'	
	18	13.6 14.5		39°15'	866'	
	19	11.8 12.7		38°05'	831'	
	20	10.5 11.4		36°51'	794'	



Tape = +.9
Boat = +1.0
Tide = -1.0
+.9

F.B. 2806 Pg. 174 | Job No. 0300.02 | Division No. 11 | Notes Red CWH | Plotted J.S.H | Profile

Survey of BEACH EROSION STUDIES | Date 8-18-60 | Date 10-20-60 | No.

Survey by HARRIET | Notes SMITH N | Notes Chkd. JSH | Checked CWH | X-Sec.

Indexed H. E. OTT | Date | Date 8-26-60 | Date 10-21-60 | No.

76L-298 CE 307 11-58

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. At 102+50					
Sight On 5-5					
#	Rec.	Adj.	Time	Hor. Ang.	
21	9.8	10.7		35°-53' 765	
22	9.2	10.1		34°-54' 738	
23	8.1	9.0		33°-31' 703	
24	7.5	8.4	5-19	32°-35' 679	Tape = +.9 Boat = +1.0 Tide = -1.0 +.9

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.			
					DATUM MEAN LOWER LOW WATER		87+50 INSHORE
		19.60					
7.3.	5.63	19.72	5.51	14.09			
87+50			15.4	35.1			
			11.8	31.5			31' RT. TOP BEK.
			1.2	18.5			53' RT. ETD BEK.
			3.3	16.4			100' RT. BLNEW HKL
			6.0	13.7			200' RT. BEN
			8.3	11.4			261' RT. TOP BEK.
T.P.			11.99	7.73	T.P.		
	1.12	3.35					
87+50			4.1	4.7	32° 02'	313'	Mean tide line
T.P.	3.30	5.33	6.17	2.68	T.P.		
87+50			5.6	0.4	50° 45'	416'	
"			6.8	-0.2	43° 10'	469'	
"			7.9	-1.9	45° 32'	509'	
"			15.8	-4.8	48° 29'	565'	
"			13.0	-7.0	51° 18'	624'	
"			14.8	-9.8	54° 56'	712'	
"			16.9	-10.8	57° 12'	776'	

Profile No. X-Sec. Notes Red J.S.H. Plotted J.S.H. Job No. Division No. 11 F. B. 2026 Pg. 115
Date Date Survey of
Notes Chkd. C.W.H. Checked C.W.H. Survey by Notes Checked Date
No. Date Date Map No. Indexed H. E. O'H. Date

F. B. 2806 Pg. 176 | 0300102

Job No. Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LMD Notes J.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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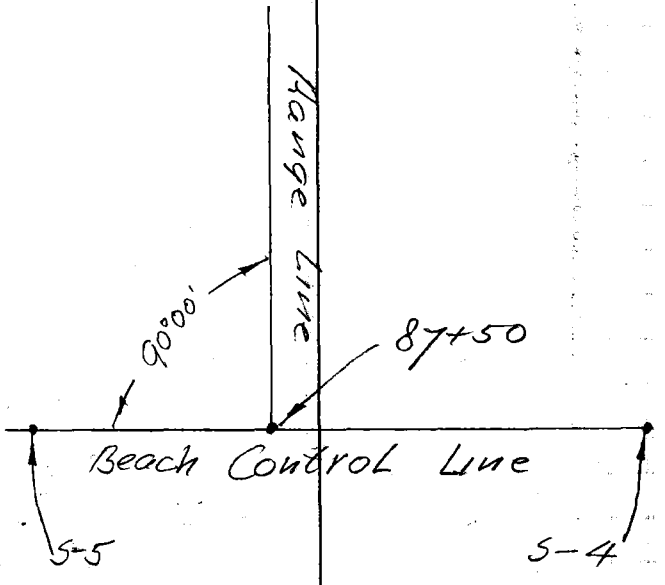
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1		532	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
87+50	5-5	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20		534	"	



Profile No. ____ Notes Red. CWH Plotted J.S.H. Job No. ____ Division No. 11
Date 8-26-60 Date 10-20-60 Survey of Beach Frontage Studies
Notes Chkd. J.S.H. Checked CWH Survey by Pierrick Notes Checked Date 7-28-60
No. ____ Date 8-26-60 Date 10-21-60 Map No. ____ Indexed ____ H. E. Ott Date ____

030002

F. B. 2806 Pg. 177

F.B. 2806 PG. 178 030002

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ H. E. Ott Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 CE 307 11-58

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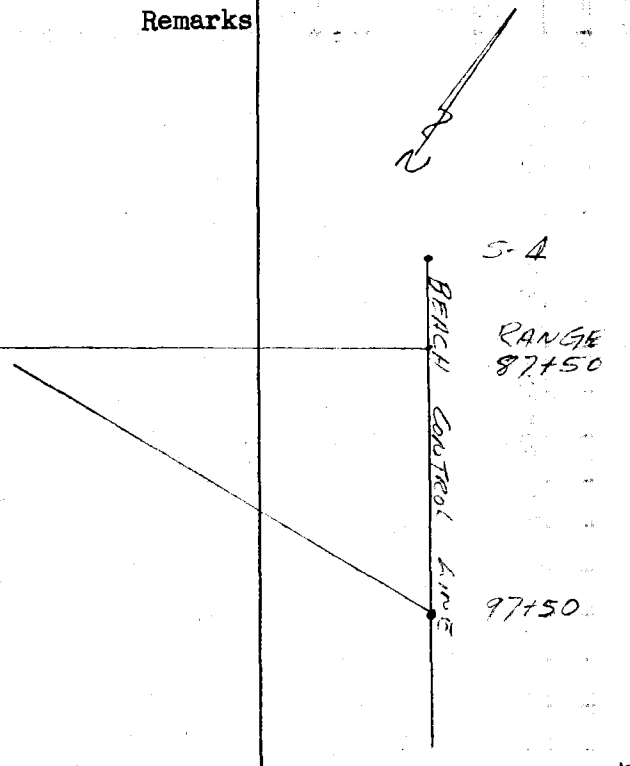
Profile No. ~~X-Sec.~~ Notes Red. CWH Date 8-10-60 Plotted J.S.H. Date 10-26-60 Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 179
Notes Chkd. J.S.H. Date 8-26-60 Checked CWH Date 10-26-60 Survey of BEACH Survey by ~~WHC/JST~~ Note Stations 7-28-60
No. Date Date Map No. Indexed H. E. OTT Date

STATION Inst. At	Sight On	#	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
97+50	5-4	1	27.4	28.4	5-32	62°-58'	1960
		2	26.0	27.0		61°-29'	1841
		3	25.2	26.2		59°-44'	1714
		4	25.0	26.0		58°-06'	1607
		5	23.9	24.9		56°-42'	1522
		6	23.3	24.3		55°-15'	1442
		7	23.0	24.0		53°-39'	1359
		8	22.1	23.1		51°-51'	1273
		9	21.2	22.2		49°-54'	1188
		10	19.8	20.8		47°-56'	1108
		11	18.3	19.3		46°-15'	1045
		12	16.4	17.4		44°-45'	991
		13	15.3	16.3		43°-26'	947
		14	14.2	15.2		42°-11'	906
		15	12.8	13.8		41°-03'	871
		16	12.1	13.1		39°-58'	838
		17	11.1	12.1		38°-50'	805
		18	10.1	11.1		37°-47'	775
		19	9.0	10.0		37°-00'	754
		20	8.8	9.8	5:34	36°-08'	730



Tape = +.9
Boat = +1.0
Tide = -.9
+1.0

F.B. 2806 Pg. 180 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by V HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

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

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76L-298 CE 307 11-58

76L-298 S & E #307—1-56

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Profile No. ~~X-Sec.~~ No. Notes Red. J.S.H. Date Plotted J.S.H. Date Job No. Survey of BEACH EROSION STUDIES Division No. 11 Notes Chkd. CWH Date Checked CWH Date Survey by LINO Date 7-28-60 Notes Indexed H.E.O.N. Date Date Map No. F. B. 7406 Pg. 181

STATION	B. S.	H. I.	F. S.	ELEV.		
					INSTR 77+50	82+50
		19 72			DATUM MEAN LOWER LOW WATER	82+50 INSHORE
T.P.	10 84	22 54	7 76	11 96		
T.P.	7 82	30 27	0 07	22 45		
S-4	7 17	32 12	5 32	24 95	S-4 ELEV. = 24.956	
T.P.	4 64	34 35	2 41	29 71		
			4 5	29 9	CONTOUR	
			5 4	29 5		20' RT. TOP BRK.
T.P.	1 39	23 52	11 22	23 13		
			3 5	20 0		53' RT. BTM. BRK.
			7 1	16 4		100' RT. BEACH HRCH
			11 2	12 3		175' RT. BRK.
			10 5	13 6		200' RT. BEACH HRCH
T.P.			11 57	11 95	T.P.	247' RT. TOP BRK.
	050	12 45				
T.P.	311	6.15	9 41	3.04	T.P.	
82+50			1.5	47	32° 59' 324'	mean tide line
"			5.5	0.7	39° 28' 412'	
"			7.8	-1.6	45° 27' 508'	
"			10.2	-4.0	48° 40' 568'	
"			11.6	-5.4	50° 04' 597'	

76L-298 S & E #307—1-56

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F. B. 3006 Pg. 182 Job No. 3006 Division No. 11 Notes Red. J.S.H. Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No. X-Sec.
Survey by [illegible] Notes T.C. [illegible] Notes Chkd. CWH Checked CWH
Indexed T. E. OTT Date Date 8-10-60 Date 10-21-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.	∠ @ 77+50		sight on 82+50
		6 15					
82+50			14 1	-7 9	52° 41'	656'	
"			15 9	-9 7	55° 33'	729'	

76L-298 CE 307 11-58

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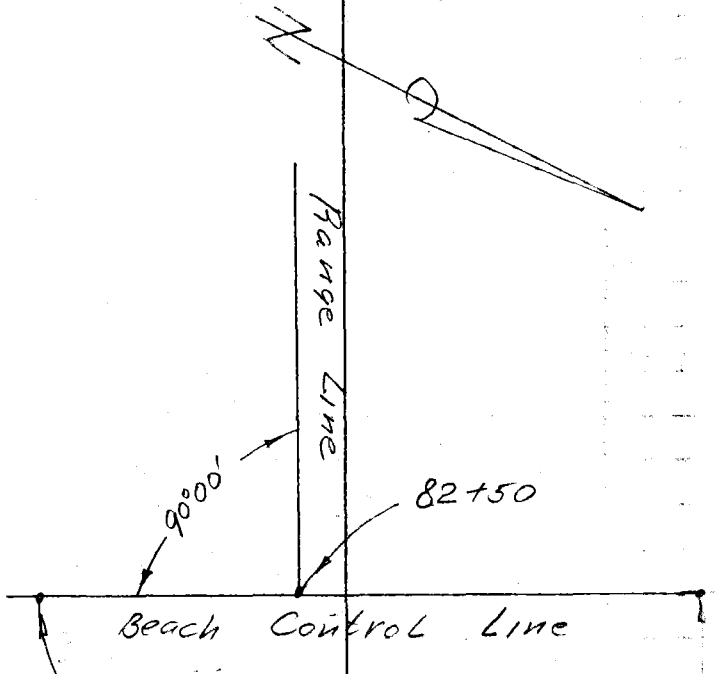
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. at	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		545	90° 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
82+50	S-4	9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red CWH Plotted JSH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 183
No. F-566. Date 6-16-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd JSH Checked CWH Survey by Morrison Noble Assoc. Date 7-28-60
No. Date 8-16-60 Date 10-21-60 Map No. Indexed H. E. OTT Date Date

76L-298 CE 307 11-56

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F.B. 2806 PG. 154 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile
Survey of Beach Erosion Studies Date 8-18-60 Date 10-20-60 No. X-Sec.
Survey by Wharrier Notes Teeboom Notes Chkd. J.S.H. Checked CWH
Indexed H. E. Ott Date Date 8-26-60 Date 10-21-60 No.

STATION	B.S.	H.I.	F.S.	ELEV		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
		21			90° 00	
		22			"	
		23			"	
		24			"	
		25			"	
		26		550	"	
82+50	5-4					

76L-298 CE 307 11-58

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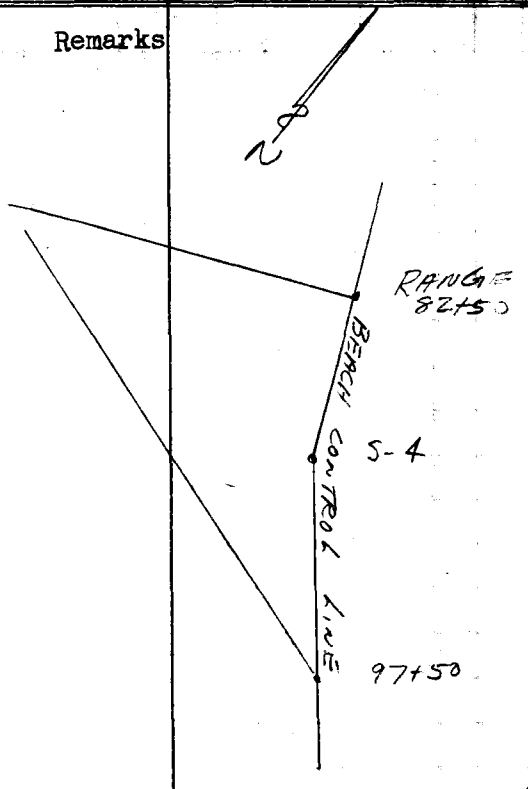
Profile No. ____ X-Sec. ____ Notes Red CWH Plotted J.S.H. Job No. 0300 Division No. 1 F.B. 2806
Date 8-18-60 Date 10-20-60 Survey of BEACH EROSION STUDIES Pg. 185
Notes Chkd. ____ Checked ____ Survey by ____ Notes E OH Date ____ 28
No. ____ Date 5-26-60 Date 8-27-60 Map No. ____ Indexed ____ Date ____

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
974 50	S-4	1		28.4	28.6	5-45	53°-51'	2203' L
		2		27.3	27.5		52°-18'	2078' L
		3		27.2	27.4		50°-39'	1947' L
		4		27.2	27.4		48°-42'	1813' L
		5		25.9	26.1		47°-10'	1715' L
		6		25.2	25.4		45°-25'	1611' L
		7		23.9	24.1		43°-08'	1453' L
		8		23.3	23.5		41°-24'	1395' L
		9		22.3	22.5		40°-01'	1325' L
		10		22.0	22.2		38°-25'	1251' L
		11		20.7	20.9		36°-54'	1181' L
		12		20.7	20.9		35°-41'	1128' L
		13		19.7	19.9		34°-34'	1083' L
		14		18.3	18.5		33°-40'	1046' L
		15		17.7	17.9		32°-40'	1008' L
		16		16.5	16.7		31°-49'	974' L
		17		16.2	16.4		30°-55'	941' L
		18		14.8	15.0		30°-04'	909' L
		19		13.7	13.9		29°-25'	886' L
		20		13.4	13.6		28°-28'	852' L



Tape = +.1
Boat = +1.0
Tide = -.9
+.2

76L-298 CE 307 11-58

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F.B. 2806 Pg. 186 Job No. 0300.02 Division No. 11 Notes Red. CWH Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-18-60 Date 10-20-60 No. X-Sec.
Survey by MARSHALL SMITH N Notes Chkd. J.S.H Checked CWH
Indexed H. E. QIT Date Date 8-26-60 Date 10-21-60 No.

STATION		B.S.	H.I.		F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
97+50	S-4	21	11.8	12.0		27°-26'	814	Tape = +.1
		22	10.7	10.9		26°-36'	785	Boat = +1.0
		23	9.7	9.9		25°-28'	746	Tide = -.9
		24	8.8	9.0		24°-38'	719	+.2
		25	8.0	8.2		23°-51'	695	
		26	7.8	8.0	5-50	23°-14'	674	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 82+50	Start on 77+50
		23 52			DATUM MEAN LOWER LOW WATER	77 + 50 INSHORE
T.P.	6 71	21 03	9 23	14 29		
77+50			8 4	34 4	CONTROL LINE	
			12 2	33 2		19' RT. TOP BANK
			2 4	18 6		53' RT. TOP BANK
			4 4	16 6		100' RT. TOP BANK
			7 4	13 6		200' RT. TOP BANK
			9 5	11 5		291' RT. TOP BANK
T.P.			11 18	9 82	T.P.	
	123	11 05				
T.P.	303	6.10	7 98	3.07	T.P.	
77+50			1.4	47	35° 10' 352'	Mean tide line
"			58	0.3	42° 42' 461'	
"			72	-1.1	46° 12' 521'	
"			9 1	-3.0	50° 12' 600'	
"			12 1	-6.0	52° 29' 651'	
"			13.4	-7.3	56° 16' 749'	
"			14 9	-8.8	57° 44' 792'	
"			16 4	-10.3	58° 47' 825'	

Profile No. ____ Notes Red. J.S.H. Plotted J.S.H. Job No. ____ Division No. 11
Date 8-9-60 Date 10-20-60 Survey of BEACH PROFILES STUDIES
X-Sec. No. ____ Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes H. E. [illegible] Date ____
Date 8-10-60 Date 10-21-60 Map No. ____ Indexed ____ Date ____

F. B. 2306 Pg. 187

F. B. 2806 Pg. 188 | 0300.02

Job No. Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LIND Notes J.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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78L-298 S & E #307—1-56

76L-298 CE 307 11-58

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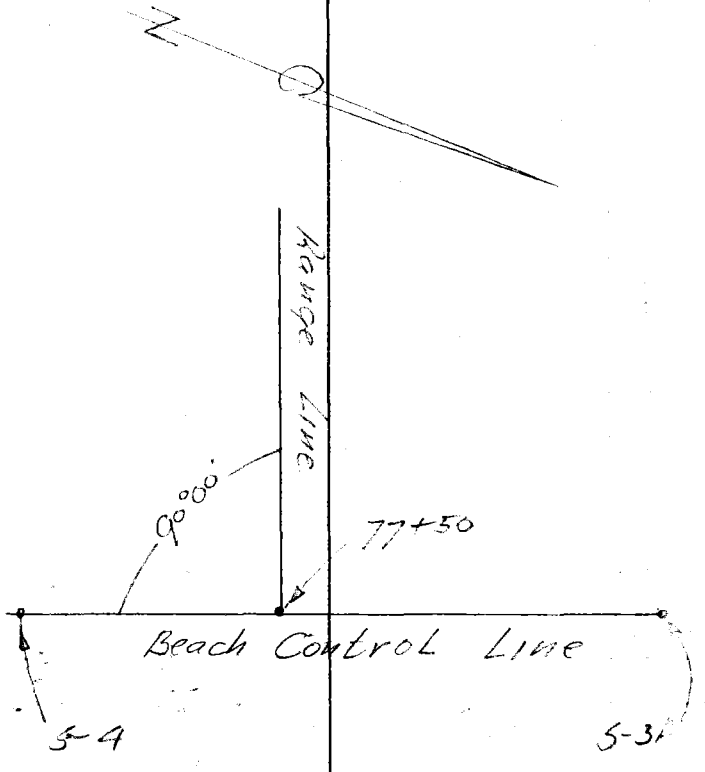
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor.Ang.	Remarks
77+50	S-4	1		5 17	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18		6 19	"	
					"	
					"	



Profile
Notes Red Chkd. Plotted J.S.H. Job No. 03000.02 Division No. 11 F.B. 2806 Pg. 169
No. X-Sec. Date 5-12-60 Date 10-20-60 Survey of Beach Erosion Study
No. Notes Chkd. Checked Survey by Unknown Notes Checked Date
Date 5-26-60 Date 10-21-60 Map No. Indexed H. E. Ott Date

F. B. 2806 Pg. 190 | 030002

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed H. E. OTT Date _____ Date _____ Date _____ Date _____ No. _____

STATION	Inst. At	Sight On	B.S.	#	H.I.	Depth Rec.	Adj.	F.S.	Time	ELEV	Hor. Ang.	Remarks
77+50												
		S-4										

76L-298 CE 307 11-58

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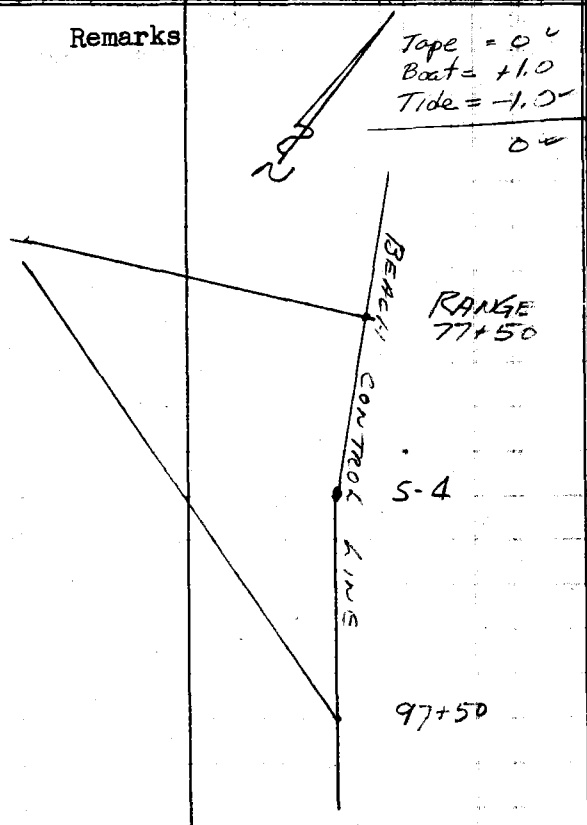
Profile Notes Red CHW Plotted J.S.H. Job No. 0300 02 Division No. 11 F.B. 2806 Pg. 191
No. X-Sec. Date 8-12-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
No. Notes Chkd J.S.H. Checked CHW Survey by HARPER Notes SMITH Date 7-28-60
Date 8-26-60 Date 10-2-60 Map No. Indexed H. E. OH Date

STATION Inst. At	Sight On	#	B.S.	H.I. Depth Rec.	Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
974+50	S-4	1		26.9	26.9	6-17	39°-19'	1741'	
		2		26.0	26.0		37°-41'	1639'	
		3		25.4	25.4		35°-37'	1538'	
		4		24.2	24.2		33°-38'	1410'	
		5		23.0	23.0		31°-28'	1299'	
		6		21.8	21.8		30°-16'	1239'	
		7		21.2	21.2		29°-12'	1188'	
		8		19.9	19.9		28°-02'	1130'	
		9		18.3	18.3		27°-00'	1082'	
		10		17.2	17.2		25°-52'	1031'	
		11		16.5	16.5		25°-09'	999'	
		12		15.1	15.1		24°-01'	949'	
		13		13.3	13.3		23°-01'	907'	
		14		12.8	12.8		22°-30'	878'	
		15		12.1	12.1		21°-37'	849'	
		16		10.8	10.8		20°-41'	808'	
		17		9.6	9.6		20°-06'	785'	
		18		9.2	9.2	6-19	19°-23'	754'	



F. B. 2806 Pg. 192 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 CE 307 11-58

76L-298 S & E #307—1-56

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S-3A

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 67+50	SIGHT ON 72+50
		21 00			DATUM *MEAN LOWER LOW WATER	72+50 INSHORE
T.P.			6 69	14 31		
T.P.	11 13	30 42	0 73	20 27		
S-3A			2 47	27 93	S-3A ELEV. = 27.946	
T.P.	5 94	2[illegible] 25		14 31	*	
—			-13 8	34 1	CONTROL LINE	
			-13 8	34 1		27' RT. TOP BRK.
			2 4	17 9		59' RT. BT. IN BRK.
			4 7	15 6		100' RT. [illegible] AREA
			6 4	13 9		200' RT. BERM AREA
			8 9	11 4		318' RT. TOP BRK.
T.P. FOR SWIM PRTY			12 85	7 40	T.P.	
	1 67	9.07				
T.P.	2 56	6.13	5 50	3.57	T.P.	
72+50			1.4	47	35° 35' 358'	Mean tide line
"			5 1	1.0	39° 20' 410'	
"			8 0	-1.9	47° 13' 540'	
"			11 8	-5.7	50° 20' 603'	

Profile No. ____ Notes Red. J.S.H. Plotted J.S.H. Job No. ____ Division No. 11
Date 8-9-60 Date 12-20-60 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. CWD Checked CWD Survey by CWD Notes Date 7-28-60
Date 8-10-60 Date 12-21-60 Map No. ____ Indexed H. E. O'B. Date ____

F. B. 2806 Pg. 193

F. B. 2806 Pg. 194 Job No. 0300.02 Division No. 11 Notes Red. J.S.H. Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No.

Survey by LIND Notes J.G. GOODWIN Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. OTI Date Date 8-10-60 Date 10-21-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.	
72+50		6.13	14.2	(-8.1)	
"			15.7	(-9.6)	
					TA @ 67+50
					53° 14' 669'±
					55° 18' 722'±
					Sight on 72+50

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76L-293 S & E #307—1.56

76L-298 CE 307 11-58

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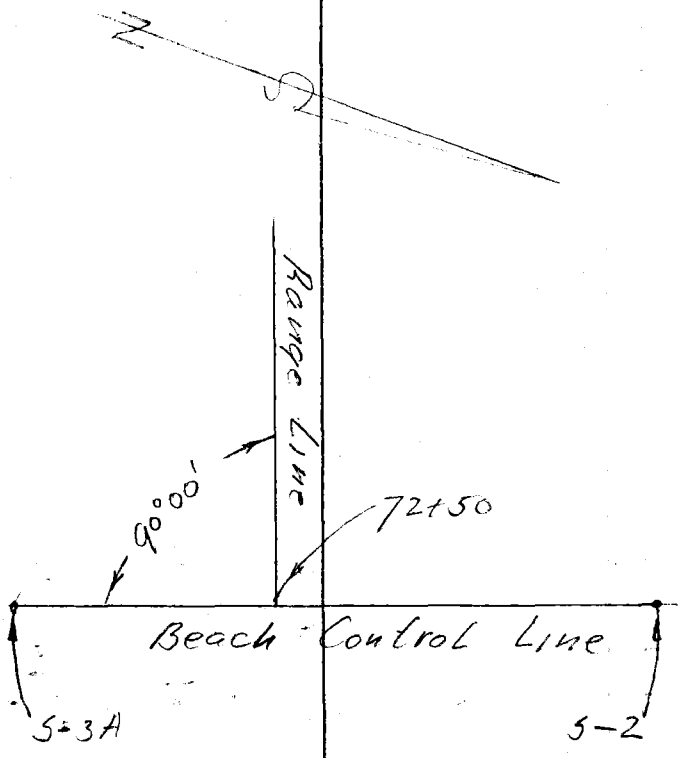
STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
		1		640	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
72+50	5-3A	8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20		643	"		



Profile Notes Red CWH Plotted 1-5-61 Job No. 0300002 Division No. 11
No. X-Sec. Date 8-18-60 Date 10-20-60 Survey of Beach Erosion Structures
No. Date 8-25-60 Date 10-21-60 Map No. Indexed H. E. OLD Date
F.B. 2806 PG. 195

F.B. 2806 Pg. 196 | 0300.02

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed H. E. Ott Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
72+50					Inst. At
S-3A					Sight On
					#
					Depth Rec. Adj.
					Time
					Hor. Ang.

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76L-298 CE 307 11-58

76L-296 CE 307 11-58

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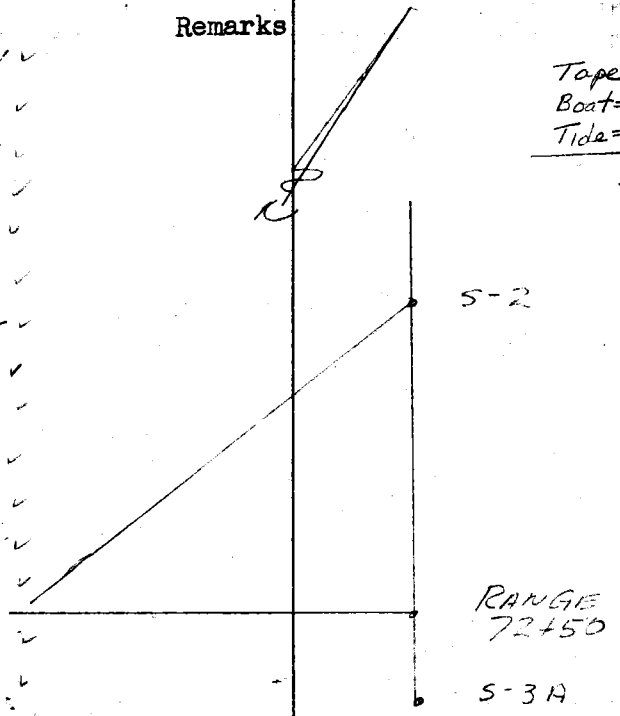
Profile No. ____ Notes Red. CWH Plotted JJH Job No. 0300.07 Division No. 11 F.B. 206 PG. 197
X-Sec. No. ____ Date 8-12-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked CWH Survey by [illegible] Notes Smith, N Date 7-[illegible]-60
Date [illegible] Date 10-21-60 Map No. ____ Indexed H. E. OTT Date ____

STATION Inst. At	Sight On	B.S.	H.I. #	Depth Rec.	Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
5-1	5-3A		1	27.9	28.2	6-40	48°-45	1851	Tape = +.4
			2	26.7	27.0		46°-57	1739	Boat = +1.0
			3	26.2	26.5		45°-15	1638	Tide = -1.1
			4	25.0	25.3		43°-36	1546	+.3
			5	24.4	24.7		41°-28	1435	
			6	23.8	24.1		39°-32	1339	
			7	22.3	22.6		37°-17	1235	
			8	20.3	20.6		35°-25	1154	
			9	19.0	19.3		33°-43	1083	
			10	17.8	18.1		32°-25	1031	
			11	16.2	16.5		31°-34	997	
			12	14.9	15.2		30°-25	953	
			13	14.3	14.6		29°-27	917	
			14	13.3	13.6		28°-18	873	
			15	11.4	11.7		27°-16	836	
			16	10.6	10.9		26°-33	812	
			17	9.9	10.2		25°-33	776	
			18	9.2	9.5		25°-01	758	
			19	8.5	8.8		24°-07	727	
			20	7.9	8.2	6-43	23°-25	703	



F.B. 2806 PG. 198 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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5-3A

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 72+50	SIGHT ON 67+50
		20 25			DATUM MEAN LOWER LOW WATER	67+50 INSHORE
T.P.	5 31	20 67	4 92	15 35		
67+50			15 7	34 4	CONTROL	LINE
			15 0	35 7		20' RT. TOP BKR.
			2 2	18 5		62' RT. STM. BK.
			4 4	16 3		100' RT. BEACH AKTA
			5 7	15 0		200' RT. BEACH AKTA
			8 5	12 2		265' RT. STM.
			7 9	12 8		300' RT. BEACH AKTA
			9 0	11 7		340' RT. TOP BR.
T.P.			11 33	9 44		
	188	113 2				
T.P.	262	6 67	7 27	4.05	T.P.	
67+50			2.0	4 7	37° 48' 383'	Mean tide line
"			60	0.7	42° 54' 465'	
"			75	-0.9	46° 26' 526'	
"			109	-4.3	51° 15' 623'	
"			131	-6.4	53° 04' 665'	
"			147	-8.0	55° 17' 722'	

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. Division No. 11
No. Date 8-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by LAND Notes Date
No. Date 8-10-60 Date 10-21-60 Map No. Indexed B. E. OTT Date

F. B. 2806 Pg. 199

F. B. 2806 Pg. 200 | 0300.02

Job No. | Division No. 11 | Notes Red. J.S.H. | Plotted J.S.H. | Profile

Survey of BEACH EROSION STUDIES | Date 8-9-60 | Date 10-20-60 | No.

Survey by LIND | Notes J.C. GOODWIN | Notes Chkd. CWH | Checked CWH | X-Sec.

Indexed H. E. OH | Date | Date 8-10-60 | Date 10-21-60 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
67+50		667	1.8	(-10.1)	T @ 72+50 58°04' 802.4
					Sight on 67+50

Do not extend notes this side of this line.

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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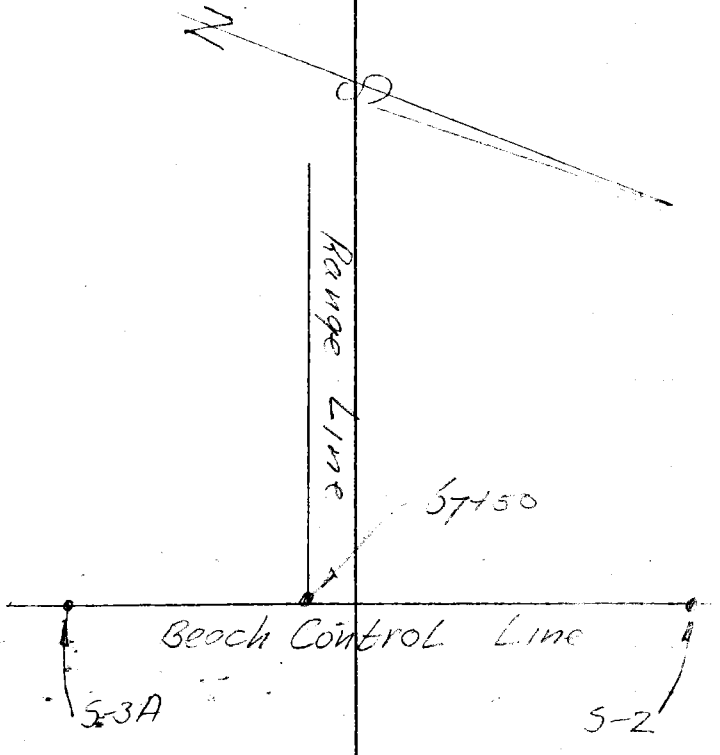
STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks	
67+50	5-3A	1		654	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20		657	"		



Profile No. ____ Notes Red. CWM Plotted J.S.M. Job No. 83002 Division No. 11 F.B. 2806 Pg. 201
X-Sec. No. ____ Date 8-18-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.M. Checked CWM Survey by ~~HIGHFIELD~~ Notes Checked Date 7-22-80
Date 8-26-60 Date 10-21-60 Map No. ____ Indexed H. E. OH Date ____

F. B. 2806 Pg. 202 | Job No. 0300.02 | Division No. 11 | Notes Red | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

67+50

5-3A

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

Hor. Ang.

Remarks

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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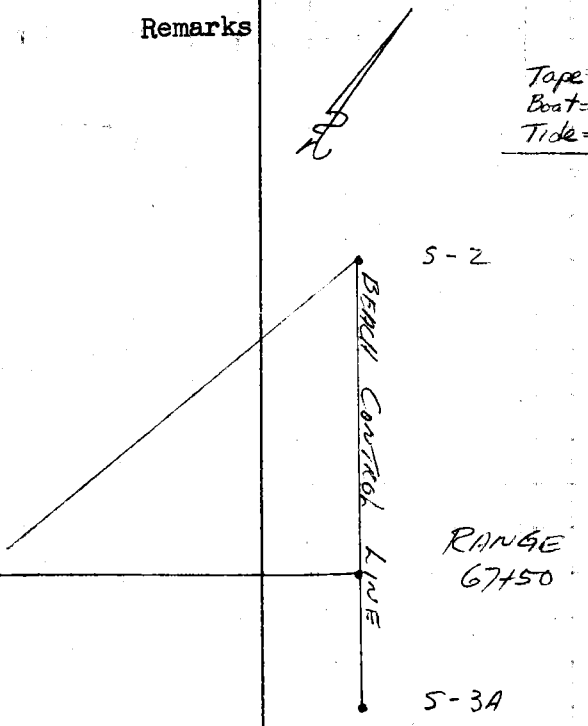
Profile No. X-Sec. No. | Notes Red CWH Date 8-18-60 | Plotted J.S.H. Date 10-20-60 | Job No. 0300.07 | Division No. 11 | F.B. 2806 | Pg. 203
Notes Chkd. J.S.H. Date 8-26-60 | Checked CWH Date 10-21-60 | Survey of BEACH EROSION STUDIES | Survey by [illegible] | Notes [illegible] Date 7-[illegible]-60
Map No. | Indexed H. E. OTT Date

STATION Inst. At	Sight On	#	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
S-2	S-3A	1	27.2	27.3	6-54	58°-27'	1830
		2	27.1	27.2		56°-53'	1722
		3	26.0	26.1		55°-24'	1629
		4	24.5	24.6		53°-58'	1545
		5	23.9	24.0		51°-31'	1413
		6	23.2	23.3		49°-44'	1327
		7	22.3	22.4		47°-34'	1229
		8	21.0	21.1		46°-15'	1174
		9	19.4	19.5		44°-40'	1110
		10	17.7	17.8		43°-10'	1054
		11	16.5	16.6		41°-58'	1010
		12	14.7	14.8		40°-55'	974
		13	13.7	13.8		39°-35'	929
		14	12.1	12.2		38°-07'	882
		15	10.7	10.8		37°-10'	852
		16	10.1	10.2		36°-00'	817
		17	8.7	8.8		34°-47'	781
		18	8.3	8.4		34°-00'	758
		19	8.1	8.2		32°-38'	719
		20	7.0	7.1	6-57	31°-34'	690

Tape = +.3
Boat = +1.0
Tide = -1.2
+.1



F.B. 2806 Pg. 204

Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by Uharriet Notes Smith, N. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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S-3A

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 67+50		SIGHT ON S. 3. A.
		20 67			DATUM MEAN LOWER LOW WATER		62 + 50 INSHORE
T.P.	4 65	20 54	4 78	15 89			
62+50					CONTROL LINE		
			2 6	17 9			65' RT. (W. SIDE LINE AND STATION)
			3 3	17 2			100' RT. BEACH ANCH
			5 7	14 8			200' RT. BEACH ANCH
			7 9	12 6			300' RT. BEACH ANCH
			9 1	11 4			373' RT TOP BE
T.P.			11 56	8 90	T.P.		
	2 92	11 90					
T.P.	2 53	6 53	7 90	4.00	T.P.		
62+50			1.8	47	140° 02'	419'	Mean tide line
"			55	1.0	136° 22'	477'	
"			72	-0.7	132° 52'	539'	
"			85	-2.0	130° 06'	594'	
"			103	-3.8	128° 33'	627'	
"			131	-6.0	126° 21'	679'	
"			150	-8.5	124° 21'	732'	
"			156	-9.1	123° 06'	761'	
"			169	-10.4	122° 10'	795'	

Profile No. _____ Notes Red. J.S.H. Plotted J.S.H. Job No. _____ Division No. 11
X-Sec. No. _____ Date 8-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. _____ Checked _____ Survey by _____ Notes _____ Date _____
Date _____ Date 10-21-60 Map No. _____ Indexed 4 F 81 Date _____

F. B. 2806 Pg. 205

F. B. 2806 Pg. 206 | Job No. 0300.02 | Division No. 11 | Notes Red. | Plotted | Profile

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

Survey by Lind | Notes Goodwin & D.S. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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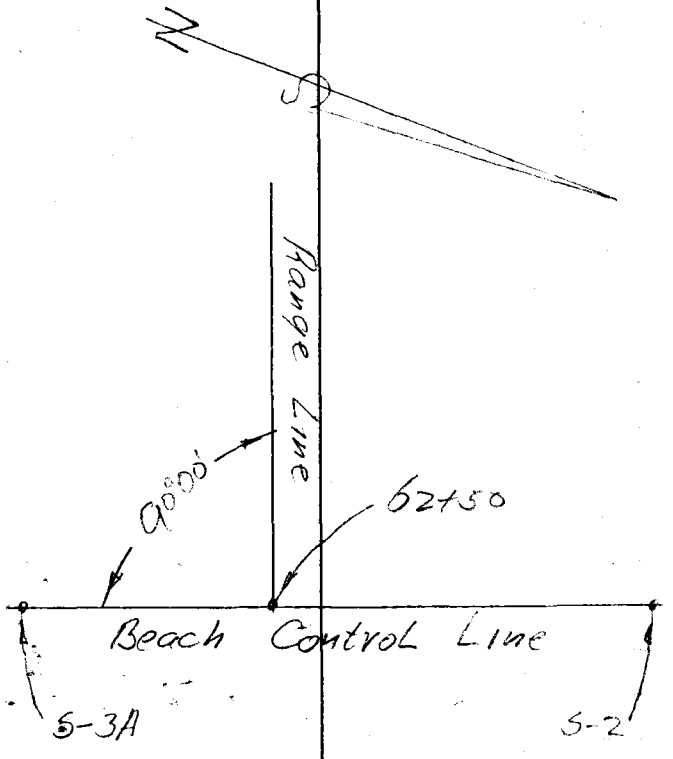
Profile No. ____ X-Sec. No. ____ Notes Red. CWH Plotted J.S.H. Job No. ____ Division No. 11 Erosion Studies
Date 8-18-60 Date 10-20-60 Survey of Beach
Notes Chkd. J.S.H. Checked CWH Survey by ~~Hearnes~~ Notes ~~Recorded~~ Date ~~Jan 1-00~~
Date 8-25-60 Date 10-21-60 Map No. ____ Indexed H. E. Ott Date ____

F. B. 2806 PG. 207

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec. Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
62+50	S-3A	1		712	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19		715	"	



F.B. 2806 Pg. 208 0300.02

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 CE 307 11-58

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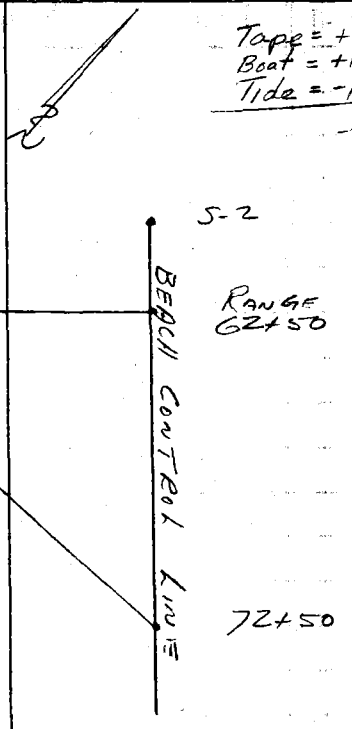
Profile No. X-Sec. No. Notes Red. CWH Date 8-18-60 Plotted J.S.H. Date 10-20-60 Job No. 6300.02 Survey of BEACH EROSION STUDIES Division No. 11 F.B. 2806 Pg. 209
Notes Chkd. J.S.H. Date 8-26-60 Checked CWH Date 10-21-60 Map No. Indexed Date
Survey by LUHARET Notes SMITH Date 7-28-60 H.E. OH Date

STATION Inst. At	Sight On	#	B.S.	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
72+50	5-2	1		27.3	27.2	7-12	64°-06'	2059	
		2		27.4	27.3		62°-41'	1936	
		3		27.1	27.0		61°-07'	1813	
		4		26.2	26.1		59°-06'	1671	
		5		25.3	25.2		57°-07'	1547	
		6		23.9	23.8		54°-22'	1395	
		7		23.0	22.9		52°-21'	1296	
		8		22.1	22.0		50°-18'	1205	
		9		19.5	19.4		48°-31'	1131	
		10		18.3	18.2		46°-59'	1072	
		11		17.0	16.9		45°-33'	1019	
		12		15.2	15.1		44°-17'	975	
		13		13.9	13.8		43°-17'	942	
		14		12.9	12.8		41°-57'	899	
		15		11.2	11.1		40°-47'	863	
		16		10.9	9.9		39°-31'	825	
		17		9.2	9.1		38°-07'	785	
		18		7.9	7.8		36°-59'	753	
		19		7.7	7.6	7-15	35°-47'	721	

Tape = +.3
Boat = +1.0
Tide = -1.4
-.1



F.B. 2806 PG. 210 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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5-3A 90°00'

STATION	S. S.	H. I.	F. S.	ELEV.	INST. @ 52+50	SIGHT ON S-2
		20 57			DATUM MEAN LOWER LOW WATER	57 + 50 INSHORE
T.P.	3 12	20 27	3 41	17 13		
57+50					CONTROL	LINE
			+57	26 0		37' RT. STA. RET. WALL
			5 6	14 7		200' RT. BEACH AREA
			6 3	14 3		300' RT. [illegible]
			8 9	11 4		310' RT. TOE [illegible]
T.P.			11 33	7 [illegible]	T.P.	
	1.66	10.40				
T.P.	0.89	6.65	4.64	5.76	T.P.	
57+50			1.9	4.7	42° 23' 431'	Mean tide line
"			5.0	1.6	44° 42' 466'	
"			6.5	0.1	47° 35' 513'	
"			7.7	-1.1	49° 59' 557'	
"			8.8	-2.2	51° 27' 586'	
"			10.4	-3.8	52° 47' 612'	
"			12.3	-5.7	54° 42' 655'	

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. 63-20-03 Division No. 11
No. Date 8-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked CWH Survey by [illegible] Notes [illegible] Date
No. Date [illegible] Date 10-21-60 Map No. Indexed H. E. Ott Date

F. B. 2806 Pg. 211

F. B. 2806 Pg. 212 0300-02

Job No. Division No. 11 Notes Red. J.S.H. Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No.

Survey by LIND Notes J.C. GOODWIN Notes Chkd. CWH Checked CWH X-Sec.

Indexed H. E. OTT Date Date 8-10-60 Date 10-21-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
57+50		665	140	-7.4	T @ 52+50	Sight on S-2
"			165	-9.9	52+35 699'	
					52+45 759'	

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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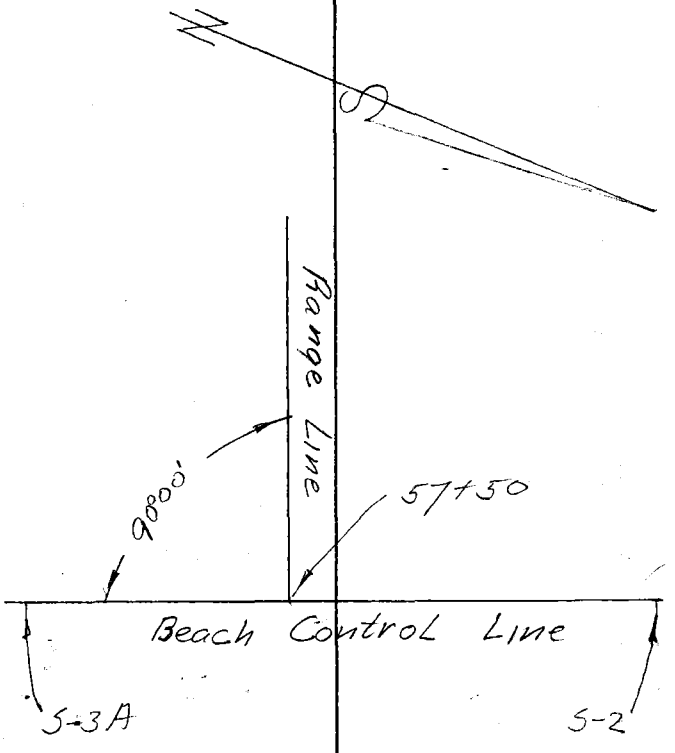
Profile No. X-Sec. No. Notes Red. CWH Date 8-19-60 Plotted J.S.H. Date 10-20-60 Job No. 030002 Division No. 11 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Date 8-26-60 Checked CWH Date 10-21-60 Map No. Indexed H. E. OTT Date
Survey by Kartnet Notes Recorded Date 7-28-60

F.B. 2806 PG. 213

STATION		B.S.	H.I.	F.S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
57+50	5-3	1		7 25	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20		7 27	"		



F.B. 2806 Pg. 214 | 0300.02

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by Charriet Notes Tee boom Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 CE 307 11-58

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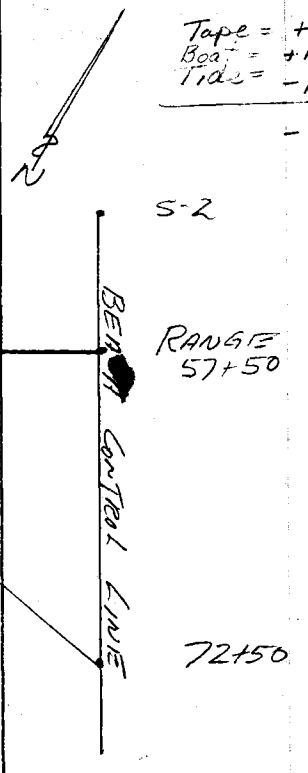
Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 PG. 215
No. X-Sec. Date 8-18-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
No. Date 8-26-60 Date 10-21-60 Map No. Indexed H. E. OTT Date

STATION Inst. At	Sight On	B.S. #	H.I. Rec.	H.I. Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
72+50	S-2	1	28.1	27.8	7-25	54°-52'	2132	
		2	27.5	27.2		52°-38'	1965	
		3	27.5	27.2		50°-38'	1829	
		4	26.4	26.1		48°-07'	1673	
		5	25.3	25.0		46°-09'	1562	
		6	24.8	24.5		43°-46'	1437	
		7	22.9	22.6		40°-27'	1280	
		8	20.7	20.4		38°-45'	1205	
		9	18.9	18.6		37°-24'	1148	
		10	17.7	17.4		35°-51'	1085	
		11	16.3	16.0		34°-22'	1026	
		12	15.0	14.7		33°-20'	987	
		13	13.2	12.9		32°-10'	944	
		14	13.2	12.9		31°-18'	912	
		15	11.2	10.9		30°-14'	875	
		16	10.2	9.9		29°-08'	836	
		17	10.0	9.7		28°-13'	806	
		18	8.8	8.5		27°-05'	767	
		19	8.0	7.7		26°-18'	741	
		20	7.2	6.9	7-27	25°-39'	720	

Tape = +.2
Boat = +1.0
Tide = -1.5
-.3



F. B. 2806 Pg. 216 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed #E 011 Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

S-2 Sight

STATION	B. S.	H. I.	F. S.	ELEV.	INST @ S-2	SIGHT ON 52+50
					DATUM MEAN LOWER LOW WATER	52+50 INSHORE
T.P.	4 37	21 52	3 48	17 27		
52+50					CONTROL LINE	
			34	25 0		33' RT. STA. RET. WALL
			45	17 1		100' RT. BEACH AREA
			66	15 0	195' = 15.5' check	200' RT. BEACH AREA
			79	13 7		300' RT. BEACH AREA
			98	11 8	405' = 11.8 check	403' RT. TOE BLK.
T.P.			11 72	9 84	T.P. OK to here	
	068	10.52				
T.P.	161	6 61	5 52	5 00	T.P.	
52+50			1.0	47	53° 27' 503'	
			62	0.4	57° 35' 588'	@ 516' = -0.4
			95	-2.9	60° 58' 673'	@ 577' = -1.5
			97	-3.1	62° 55' 730'	plot x s & dist. OK
			136	-6.4	65° 44' 828'	
			147	-8.1	67° 20' 894'	
			165	-9.9	68° 48' 962'	

check profiles indicates this turn was sour inst. Had to be down Lower to See 16.5 rod indicated

Profile No. 1 Notes Red. J.S.H. Plotted J.S.H. Job No. 6320-02 Division No. 1
X-Sec. No. Date 8-9-60 Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. CWH Checked CWH Survey by [illegible] Note Taker [illegible] Date [illegible]
Date 8-11-60 Date 10-21-60 Map No. Indexed H. E. OH Date F. B. 2806 Pg. 21

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

F. B. 2806 Pg. 218 Job No. 03300.02 Division No. 11 Notes Red. J.S.H. Plotted J.S.H. Profile
Survey of BEACH EROSION STUDIES Date 8-9-60 Date 10-20-60 No. X-Sec.
Survey by LWD Notes T.C. BOARDWALK Notes Chkd. CWH Checked CWH
Indexed H. E. OTT Date Date 8-10-60 Date 10-21-60 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		21 56				
T.P.	10 32	30 88	1 00	20 56		
S-2	1 00	30 13	1 75	29 13	S-2 ELEV. = 29.13 PER F.B. 2100-202	
T.P.	2 45	21 45	11 13	19 80		
T.P.	8 02	19 17	10 30	11 15		

76L-298 CE 307 11-58

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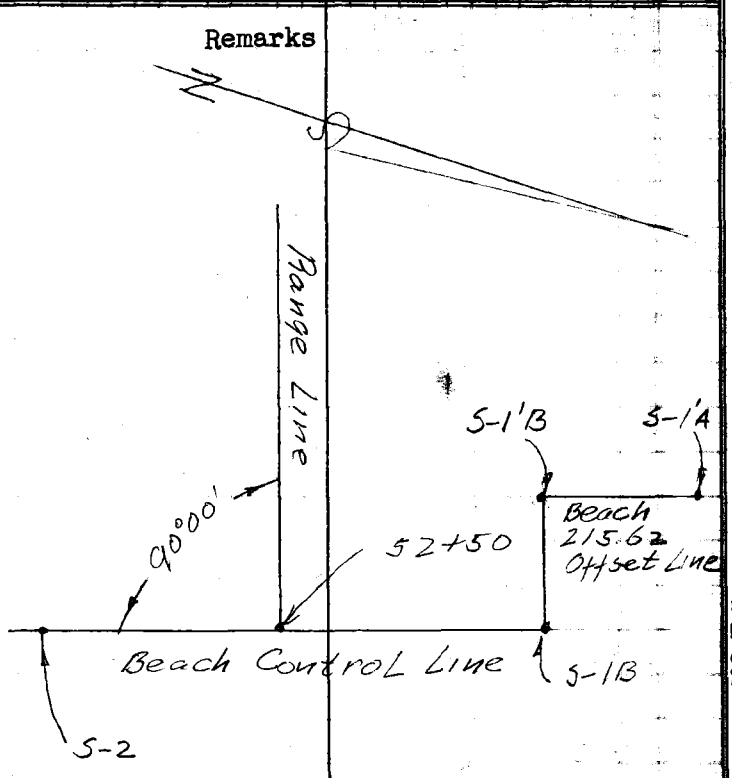
Do not extend notes this side of this line.

STATION		B.S.	H.I.	F.S.	ELEV.	
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
		1		8 02	90° 00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
52+50	5-2	9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red CWH Plotted JSH Job No. 0300.02 Division No. 11
No. Date 8-18-60 Date 10-20-60 Survey of Beach Erosion Studies
No. Date 8-26-60 Date 10-21-60 Map No. Indexed Date
F.B. 2806 Pg. 29

F. B. 2806 PG. 220 | 0300.02

Job No. ____ Division No. 11 Notes Red CWH Plotted JSH Profile

Survey of Beach Erosion Studies Date 8-18-60 Date 10-20-60 No. ____

Survey by Uharriet Notes Teeboom Notes Chkd. JSH Checked CWH X-Sec.

Indexed H. E. Ott Date ____ Date 8-26-60 Date 10-21-60 No. ____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 52+50					
Sight On S-2					
# Rec. Adj.	21 22				
Depth Time			8 05		
Hor. Ang.			90° 00'		

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76L-298 CE 307 11-58

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76L-298 CE 307 11-58

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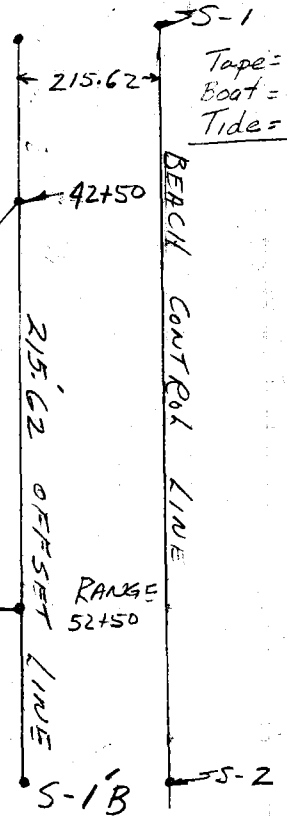
Profile Notes Red CWH Plotted J.S.H. Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 221
Date 9-28-60 Date 10-20-60 Survey of BEACH STUDIES
Notes Chkd J.S.H. Checked CWH Survey by [illegible] Note Sheet No. 7-8
No. Date 8-26-60 Date 10-21-60 Map No. Indexed H. E. OTT Date

STATION	B.S.	H.I.	F.S.	ELEV.		
st. Sight / t On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Adjusted Distance	Remarks
42+50 S-1'B (OFFSET LINE)	1	28.4 / 28.0	8-02	62°-20'	1907	2,123
	2	28.0 / 27.1		61°-06'	1804	2,020
	3	28.0 / 27.1		59°-26'	1686	1,902
	4	28.2 / 27.3		57°-05'	1545	1,761
	5	27.3 / 26.4		55°-19'	1445	1,661
	6	26.0 / 25.1		52°-43'	1314	1,530
	7	25.7 / 24.8		50°-20'	1206	1,422
	8	24.8 / 23.4		47°-17'	1083	1,299
	9	22.9 / 22.0		45°-02'	1001	1,217
	10	21.9 / 21.0		43°-18'	942	1,158
	11	20.5 / 19.6		41°-54'	897	1,113
	12	19.2 / 18.3		40°-45'	862	1,078
	13	18.2 / 17.3		39°-18'	818	1,034
	14	16.9 / 16.0		37°-42'	773	989
	15	14.8 / 13.9		36°-21'	736	952
	16	14.1 / 13.2		35°-28'	712	928
	17	12.9 / 12.0		34°-27'	686	902
	18	11.9 / 11.0		33°-20'	658	874
	19	10.9 / 10.0		32°-10'	629	845
	20	10.2 / 9.3		31°-20'	609	825



F.B. 2806 Pg. 222 030002

Job No. _____ Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-18-60 Date 10-20-60 No. _____

Survey by HARRIET H. SMITH Notes SMITH N Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed _____ Date _____ Date 8-26-60 Date 10-21-60 No. _____

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV	Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Adj. Distance	Remarks
					42+50 (OFFSET LINE)								
						S-1B							
							21	9.7	88		30°03'	579	
							22	8.9	8.0	805	18°22'	332	795
													548
													Tape = +.1 Rod = +1.0 Tide = -2.0 -.9

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 42+50		SIGHT ON 47+50
		19 17			DATUM MEAN LOWER LOW WATER		47+50 INSHORE
47+50			4 7	14 5	215.62 OFFSET LINE		
			2 3	16 9	100' LT. BEACHAREA		
			6 8	12 4			100' RT. BRK.
			7 8	11 4			195' RT. TOP BRK.
T.P. FOR SHOW PRTY.			10 82	8 3			
	0 75	9 10					Adj. Distance
			3 4	5 7	25° 06'	234'	450'
			7 5	1 6	28° 43'	274'	490'
			9 9	-0 8	34° 40'	346'	562'
			13 2	-4 1	40° 48'	432'	648'
			16 8	-7 7	46° 07'	520'	736'

Profile Notes Red. J.S.H. Plotted J.S.H. Job No. Division No. 11
No. X-Sec. Date Date 10-20-60 Survey of BEACH EROSION STUDIES
Notes Chkd. C.W.H. Checked C.W.H. Survey by LLKD Notes Date 7-27-60
No. Date Date Map No. Indexed H. E. OTT Date

F. B. 2806 Pg. 225

F. B. 2806 Pg. 224 0300.02

Job No. Division No. 11 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by LND Notes J.C. GOODWIN Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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76L-298 S & E #907—1-56

76L-298 CE 307 11-58

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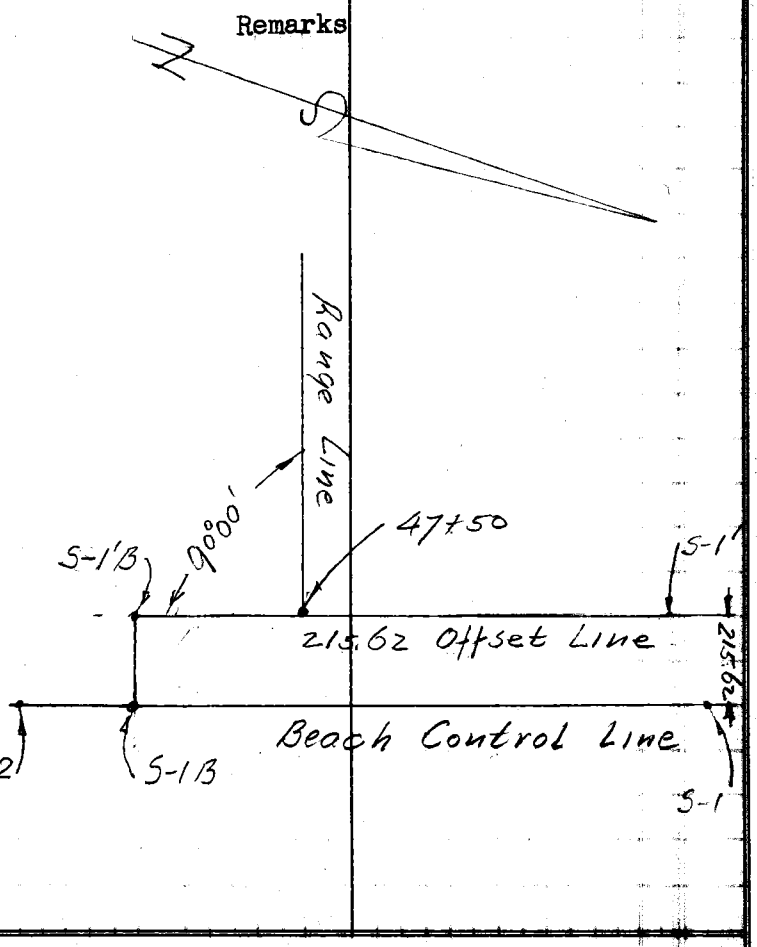
Profile Notes Red CWH Plotted J.S.H Job No. Division No. 11
No. Date 8-18-60 Date 10-20-60 Survey of Beach Erosion Studies
Notes Chkd J.S.H Checked CWH Survey by Martinez Note Taker
No. Date 8-26-60 Date 10-21-60 Map No. Indexed H.E.O.M. Date

0300.02

F.B. 2806 Pg. 225

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
	1		825	90°00'	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
47+50 / S-1'B	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	



F. B. 2806 PG. 226 | 0300.02

Job No. _____ Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of Beach Erosion Studies Date 8-18-60 Date 10-20-60 No. _____

Survey by Pharriet Notes Teeboom. Notes Chkd. J.S.H. Checked CWH X-Sec.

Indexed H. E. OTT Date _____ Date 8-26-60 Date 10-21-60 No. _____

STATION	B. S.	H. I.	F. S.	ELEV	Remarks
47+50					
S-1'B					

Inst. At Sight On Depth # Rec. Adj. Time Hor. Ang.

21 8 21 90°00'

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76L-298 CE 307 11-58

76L-298 CE 307 11-58

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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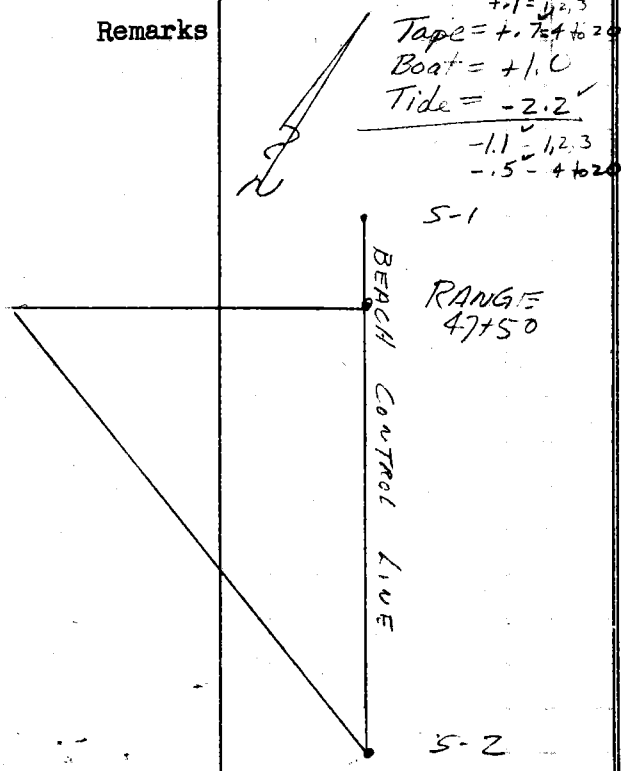
Profile No. ~~N-Sec.~~ Notes Red. CWH Plotted JSH Job No. 0300.02 Division No. 11 F.B. 2806 Pg. 227
Date 8-10-66 Date 11-10-66 Survey of BEACH EROSION STUDIES
No. Notes Card JSH Checked CWH Survey by WHALEY Notes Checked Date 2-28-66
Date 8-26-66 Date 10-21-66 Map No. Indexed H. E. OTT Date

STATION Inst. At	Sight On	B.S.	H.I. #	Depth Rec.	Depth Adj.	F.S. Time	ELEV. Hor. Ang.	Remarks
5-1	5-2		1	28.8	27.7	8-25	67°18'	2088
			2	29.0	27.9		65°48'	1943
			3	27.9	26.8		64°00'	1790
			4	27.2	26.7		62°50'	1702
			5	26.4	25.9		60°28'	1541
			6	26.0	25.5		58°29'	1424
			7	24.4	23.9		56°20'	1311
			8	23.5	23.0		54°40'	1232
			9	21.8	21.3		52°50'	1152
			10	19.3	18.8		51°15'	1088
			11	18.0	17.5		50°23'	1055
			12	17.3	16.8		49°20'	1016
			13	15.9	15.4		48°14'	978
			14	14.6	14.1		47°02'	938
			15	13.4	12.9		46°07'	908
			16	12.2	11.7		44°45'	865
			17	11.3	10.8		43°53'	840
			18	10.2	9.7		42°42'	806
			19	9.2	8.7		41°42'	778
			20	8.5	8.0		40°45'	753

+.1 = 1,2,3
Tape = +.7 = 4 to 20
Boat = +1.0
Tide = -2.2
-1.1 = 1,2,3
-.5 = 4 to 20



F.B. 2806 Pg. 228 Job No. 0300.02 Division No. 11 Notes Red CWH Plotted J.S.H. Profile

Survey of BEACH EROSION STUDIES Date 8-18-60 Date 10-20-60 No.

Survey by UHARRIET Notes SMITH N Notes Chkd. J.S.H Checked CWH X-Sec.

Indexed H. E. OTI Date Date 8-26-60 Date 10-21-60 No.

76L-298 CE 307 11-58

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV	Remarks
Inst. At S-2					
Sight On S-1					
	# Rec. 21	Depth Adj. 7.9 v 7.4	Time 8-27	Hor. Ang. 39° 39' 72 4 v	
					Tape = +.7 Bart = +1.0 Tide = -2.2 v -.5 v

76L-298 S & E #307—1-56

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S-2 90°

STATION	B. S.	H. I.	F. S.	ELEV.	INST. @ 42+50			SIGHT ON 42+50
		19 17			(2.52 OPT. SET)			42+50 INSHORE
T.P.	2.34	19 50	4 51	14 66	DATUM MEAN LOWER LOW WATER			
42+50			[illegible]	14 [illegible]	215.82 CONTROL LINE			
			4 [illegible]	15 [illegible]	100 FT. [illegible]			
			[illegible]	15 [illegible]	200 FT. [illegible]			
			5 1	14 5				285' RT. [illegible]
			8 1	11 5				32[illegible] RT. [illegible]
			7 [illegible]	2 [illegible]				360 RT. [illegible]
			8 1	11 5				415' RT. [illegible]
T.P.			11 51	8 [illegible]				
[illegible]	1.02	9 11						Adj. Distance
42+50			3.4	5.7	25° 35'	239'		455
T.P.	2.30	6.17	[illegible]	3.87	T.P.			
42+50			5.4	0.8 +1.2	30° 21'	293'		509
			[illegible]	-0.1	34° 07'	339'		555
			[illegible]	-3.0	39° 21'	410'		626
			13.3	-7.6	44° 25'	490'		706
			15.3	-9.1	47° 11'	540'		756
			16.2	-10.0	49° 46'	591'		807

Profile No. 2-Sec. Notes Red. J.S.H. Plotted J.S.H. Job No. 2[illegible] Division No. 11 F. B. 2816 Pg. [illegible]
Notes Chkd. CWH Checked CWH Survey of BEACH EROSION STUDIES
Date Date 10-20-60 Survey by [illegible] Notes [illegible] Date [illegible]
No. Date Date Map No. Indexed H. E. OH Date

F. B. 2806 Pg. 230 | 0300102

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by LIND Notes J.C. GOODWIN Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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76L-298 S & E #307—1-56

76L-298 CE 307 11-58

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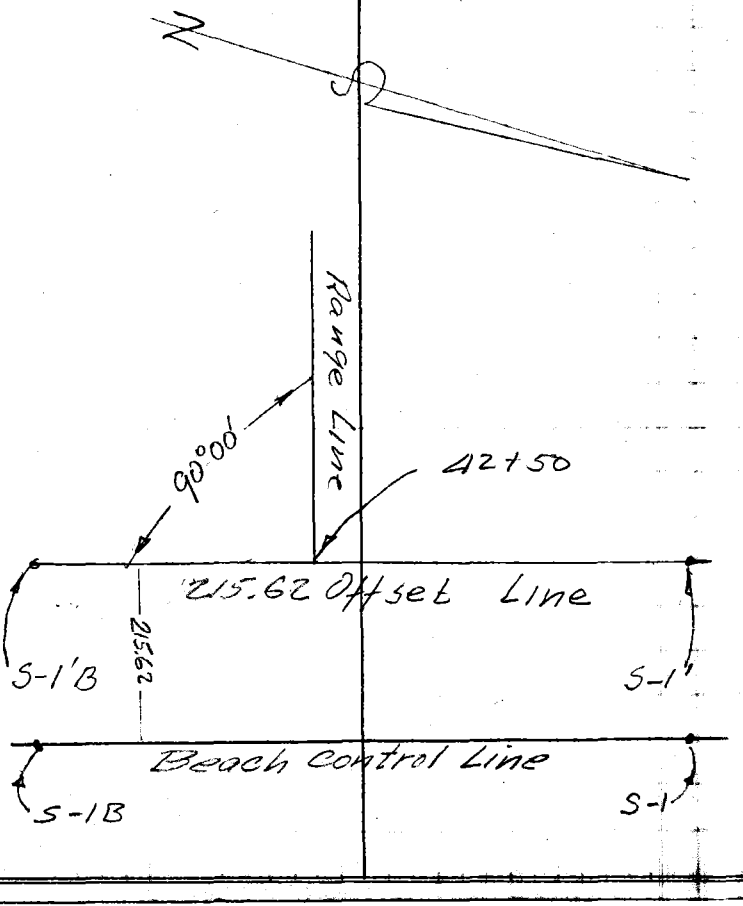
Do not extend notes this side of this line.

Profile Notes Red CWH Plotted J.S.H. Job No. Division No. 11
No. Date 8-26-60 Date 10-26-60 Survey of Beach Erosion Studies
Notes Chkd. J.S.H. Checked CWH Survey by Thorpe & Notes ~~The County~~ Date 7-27-60
No. Date 8-26-60 Date 10-11-60 Map No. Indexed H. E. Ott Date

0300.02

F.B. 2806 Pg. 231

STATION	B.S.	H.I.	F.S.	ELEV.	
ast. Sight t On	# Depth Rec. Adj.		Time	Hor.Ang.	Remarks
	1		8 43	90° 00'	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
42+50 S-1'B	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17		8 45	"	



F.B. 2806 Pg. 232 030002

Job No. _____ Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed H. E. OTT Date _____ Date _____ Date _____ No. _____

STATION	B.S.	H.I.	F.S.	ELEV	Remarks
Inst. At 42+50					
Sight On 5-1'B					
# Rec. Depth Adj.					
Time					
Hor. Ang.					

Do not extend notes this side of this line.

76L-298 CE 307 11-58

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76L-298 CE 307 11-58

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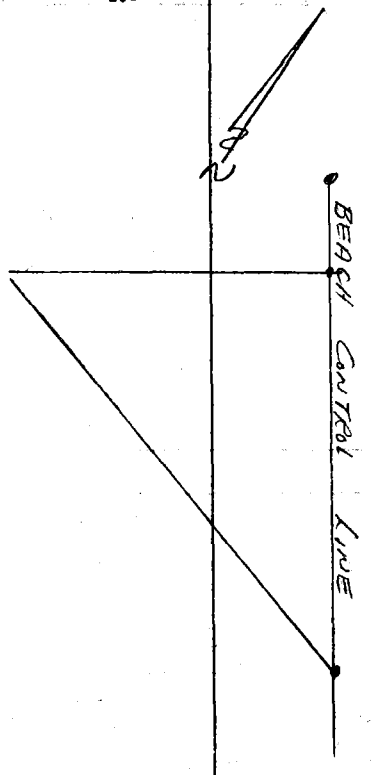
Profile No. ____ Notes Red. CWH Plotted JSH Job No. 0300.02 Division No. 11 F.B. 2006 Pg. 233
Date 8-15-66 Date 10-20-66 Survey of BEACH EROSION STUDIES
Notes Chkd. [illegible] Checked [illegible] Survey by [illegible] Notes [illegible] Date 7-25-66
No. ____ Date ____ Date 10-21-66 Map No. ____ Indexed H. E. OTT Date ____

STATION Inst. At	Sight On	B.S. #	H.I. Depth Rec.	H.I. Depth Adj.	F.S. Time	ELEV. Hor. Ang.		Remarks
52+50	S-1	1	28.5	27.7	8-43	64°-17'	2076	
		2	28.6	28.4		62°-28'	1918	
		3	26.7	26.5		60°-27'	1764	
		4	26.8	26.6		57°-40'	1580	
		5	25.2	25.5		54°-33'	1405	
		6	23.9	24.2		52°-40'	1311	
		7	22.2	22.5		50°-18'	1205	
		8	20.4	20.7		48°-27'	1128	
		9	18.6	18.9		46°-50'	1066	
		10	16.5	16.8		45°-20'	1012	
		11	15.1	15.4		43°-50'	960	
		12	13.8	14.1		42°-16'	909	
		13	12.4	12.7		41°-41'	876	
		14	10.8	11.5		40°-01'	840	
		15	9.2	9.9		38°-55'	807	
		16	7.7	8.4		37°-55'	779	
		17	—		8-45	37°-11'	—	



(+.7 = 1
+1.3 = 2 to
+1.8 = 5 to
+2.2 = 7 to
Tape = +1.8
Boat = +1.0
Tide = -2.5
= -.8 -1
= -.2 -2 to 4
= +.3 -5 to 13
= +.7 -14 to 17

S-1

RANGE
42+50

F.B. 2806 Pg. 234 Job No. 0300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

Survey by HARRIET Notes SMITH N Notes Chkd. _____ Checked _____ X-Sec.

Indexed H. E. OH Date _____ Date _____ Date _____ No. _____

76L-298 CE 307 11-58

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

Notes Ck'd by	Survey of MONSTAD PIER BEACH EROSION
Map No.	JN 0300.02 Tape Std °F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes ACG Date APR '62
Date	Indexed H. E. OTT MAY 8 '62

F. B. 2806 PG. 235

JOB NO 0300.02

BEACH EROSION STUDY
AND
LOCATION OF
MONSTAD PIER

Location pgs 236 to 239 Profile 243-246

April 25-27, 1962

GUIZADO
SMITH 2D
MYERS
GLIDDEN
LYBRAND
WORKMAN

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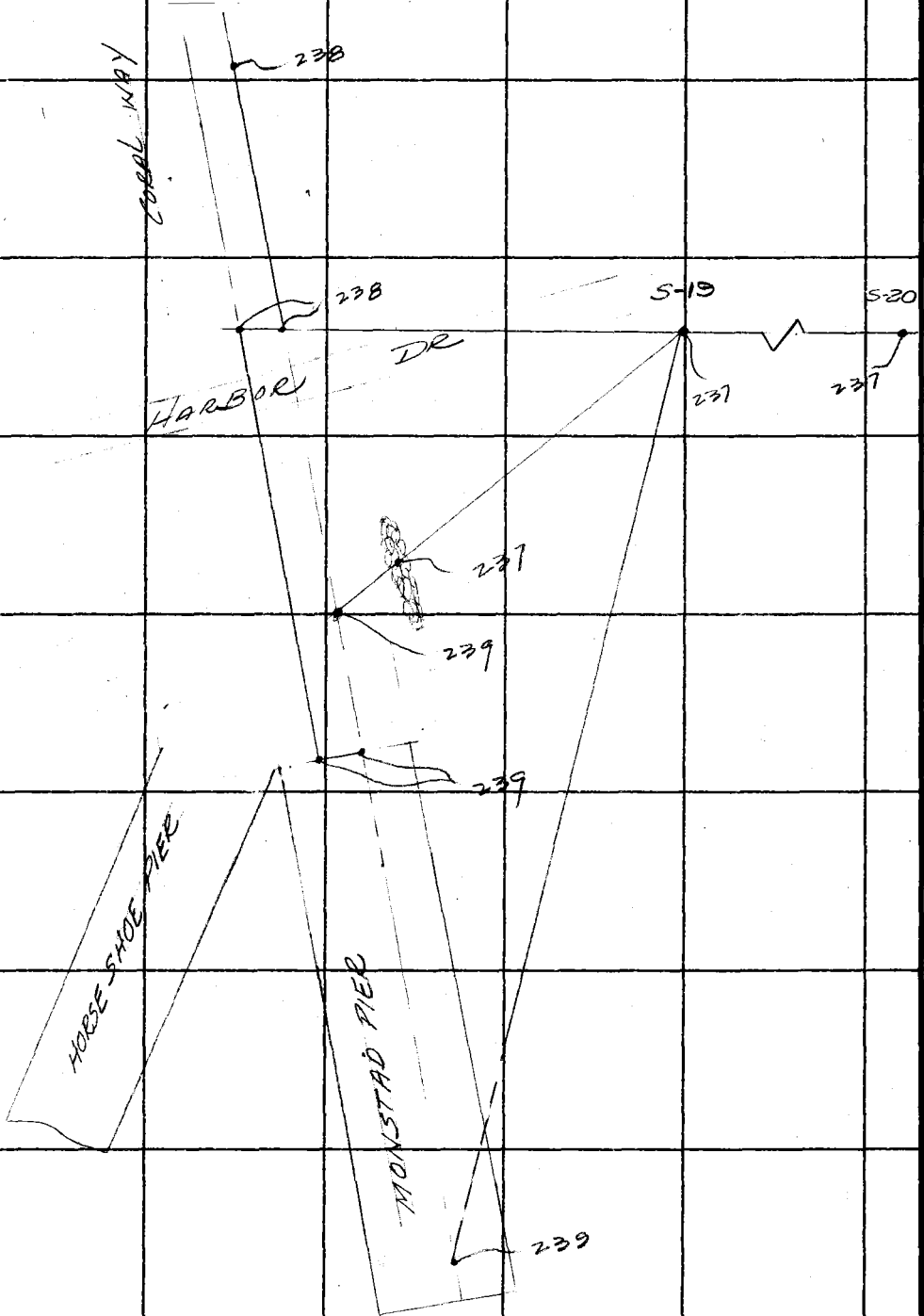
76F3085 CE # 310 3-61

F. B. 2806 PG. 236

INDEX



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Notes Ck'd by	Survey of BEACH EROSION MONSTAD PIER
Map No.	JN 0300.02 Tape 0141 Std 84° F
Office Work	Surveyed by A.C. GUIZADO
Checked	Notes K. MYERS Date 4-27-67
Date	Indexed H. E. OTT

F. B. 2806 PG. 237

300' TAPE 0141 STD 84° F

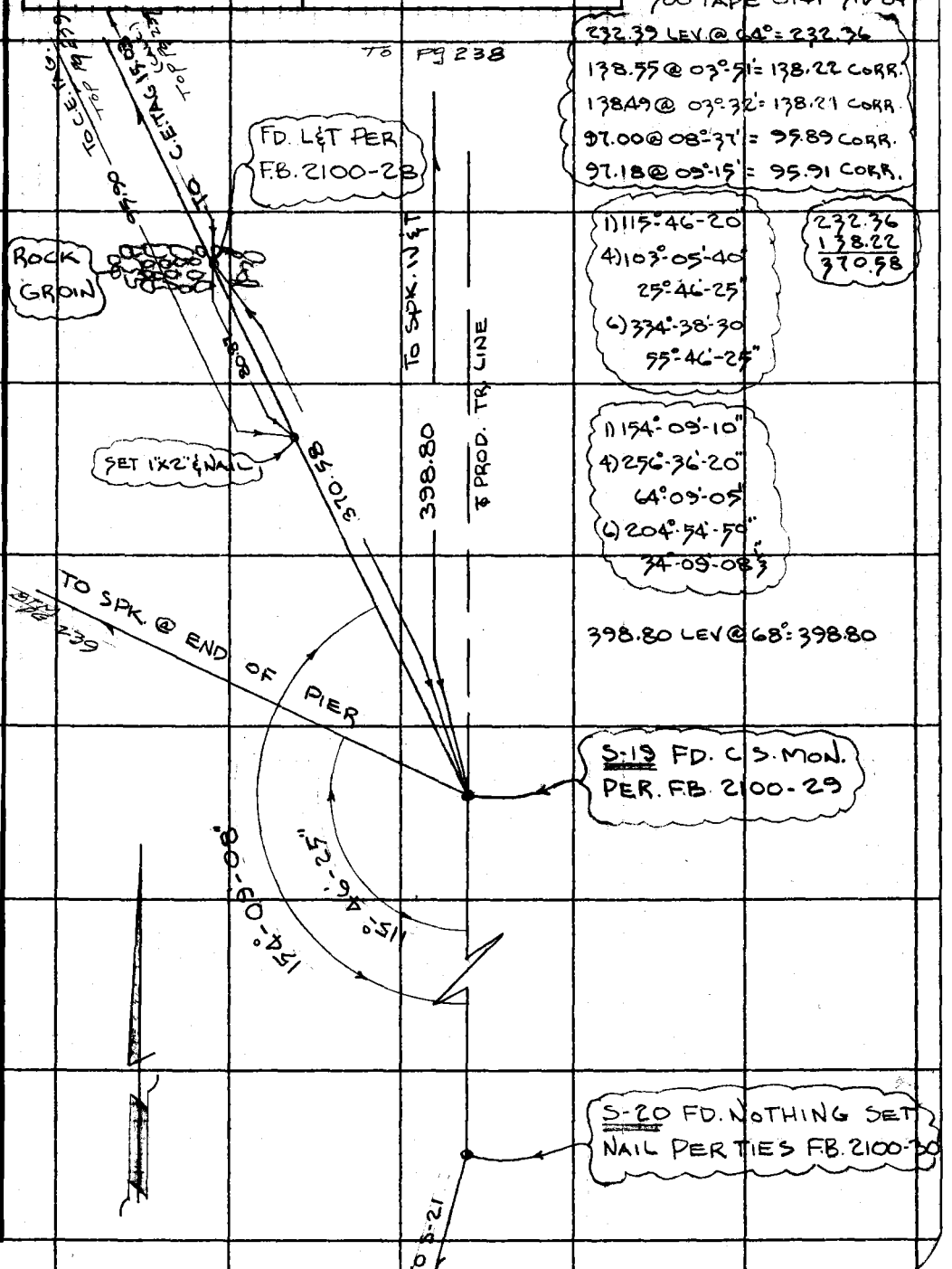
232.39 LEV. @ 64° = 232.36
138.55 @ 03°-51' = 138.22 CORR.
138.49 @ 03°-32' = 138.21 CORR.
97.00 @ 08°-37' = 95.89 CORR.
97.18 @ 05°-15' = 95.91 CORR.

232.36
138.22
370.58

1) 115°-46-20
4) 103°-05'-40"
25°-46'-25"
6) 334°-38'-30
55°-46'-25"

1) 154°-09'-10"
4) 256°-36'-20"
64°-09'-05"
6) 204°-54'-50"
34°-09'-08"

398.80 LEV @ 68° = 398.80



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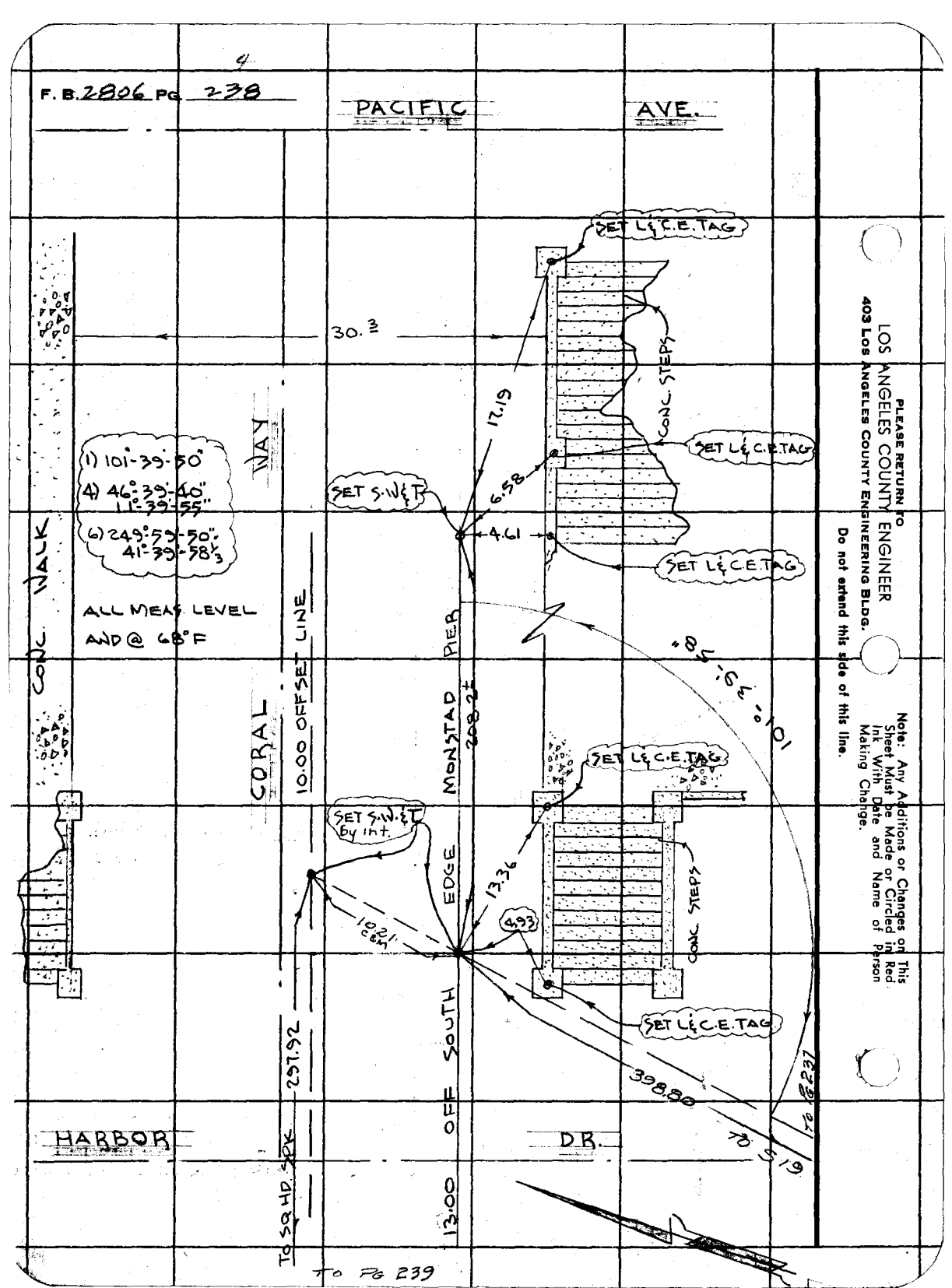
76F3095 CE # 310 3-61

F. B. 2806 PG 238



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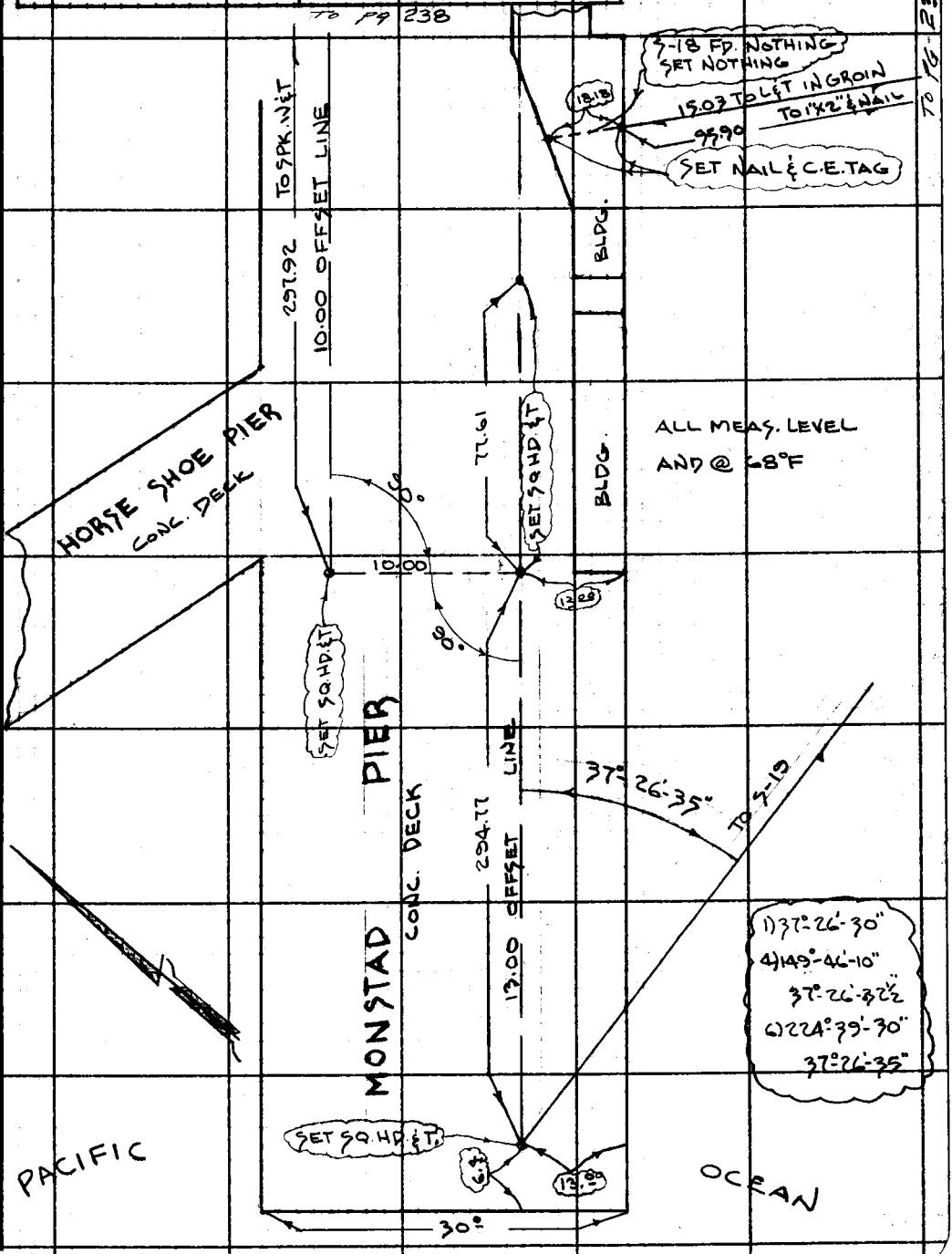
Notes Ck'd. by
Map No.
Office Work
Checked
Date

Survey of BEACH EROSION MONSTAD PIER
JNO 300.02 Tape 0133 Std 68 °F
Surveyed by A.C. GUIZADO
Notes K. MYERS Date 4-27-68
Indexed H. E. OTT

F. B. 3806 PG. 2-29

TO PG 238

TO 16-237



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76F3095 CE # 310 3-61

6

F. B. 2806 PG. 240

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Profile No.	Notes Red.	Plotted	Job No. 0300.02	Division No. 11	F. B. 2806 Pg. 241
	Date	Date	Survey of BEACH EROSION MONSTAD PIER		
X-Sec. No.	Notes Chkd.	Checked	Survey by ACG	Notes ACG	Date Apr. 27 62
	Date	Date	Map No.	Indexed H. E. OTT	Date MAY 8 '62

JOB NO 0300.02

BEACH EROSION STUDY
OF
MONSTAD PIER

GUIZADO
SMITH RD
MYERS
GLIDDEN
~~LYBRAND~~
WORKMAN

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

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761-299 S & E #307—1.56

F. B. 2806 Pg. 242 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L-298 S & E #307—1-56

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761-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
5-19	582	27 38		21 56	5-19	ELEV = 21.565 (M.L.L.W.)
T.P.	370	2613	495	2243		Fd C.S. Mon dn 2" per FB 930-17 " 2100-29
BM 21-47	5 33	24 84	662	1951	BM 21-47	ELEV = 16.716 + 2.80 = 19.516 (MLLW)
	669	25 98	555	1929		LEFT OR (SOUTH) RIGHT OR NORTH
0+00			675	1923		℄
T.P.	434	27 84	248	2350		
1+00			646	2138		31' (RT.) TOP OF WALK
"			275	03		Rod + Lead Line = 6.5 + 21.0 = 27.5
1+50			665	2119		31' (RT) TOP OF WALK
"			296	18		" = 6.6 + 23.0 = 29.6
2+00			855	1929		31' (RT) TOP OF WALK
"			336	58		" = 8.6 + 25.0 = 33.6
2+50			880	1904		31' (RT) TOP OF WALK
"			376	98		" = 8.8 + 28.5 = 37.3
3+00			890	1894		29' (RT) TOP OF WALK
"			40.9	131		" = 8.9 + 32.0 = 40.9
0+00	511	24 34		1923		℄
"			503	19 31		13' (LT)
"			20.0	43		" Rod + Lead Line = 5.0 + 15.0 = 20.0

Profile Notes Red. Date Plotted Job No. 25-00-02 Division No. 11
No. X-Sec. Notes Chkd. Date Survey of BEACH EROSION (MORSTAD BEACH)
No. Date Checked Date Survey by A.C. Date
Map No. Date Indexed H. E. OTT Date NOV 8 '62

F. B. 2806 Pg. 243

76L-298 S & E #307—1-56

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F. B. 2806 PG. 244 Job No. 6200.02 Division No. 11 Notes Red ____ Plotted ____ Profile No. ____
Survey of Beach Erosion Monitored Pier Date ____ Date ____ X-Sec. No. ____
Survey by Hale Notes LOG Notes Chkd. ____ Checked ____
Indexed by H. E. OTT Date MAY 8 '62 Date ____ Date ____

STATION	B. S.	H. I.	F. B.	ELEV.		
		24 34			LEFT (SOUTH)	RIGHT (NORTH)
0+75	5 36	27 20	250	2184		℄
"			516	2204	13' (LT) EDGE	
"			267	05		Rod + Lead Line = 5.2+21.5 = 267
1+00			518	2202		℄
"			520	2200	13' (LT.) EDGE	
"			272	00		" = 52+22.0 = 27.2
1+50			524	2196		℄
"			525	2195	13' (LT) EDGE	
"			287	− 15		" = 5.2+23.5 = 28.7
2+00			534	2186		℄
"			539	2181	13' (LT) EDGE	
"			329	− 57		" = 5.4+27.5 = 32.9
2+50			538	2182		℄
"			542	2178	13' (LT) EDGE	
"			364	− 92		" = 5.4+31.0 = 36.4
T.P.	548	27 30	538	2182		
3+00			557	2173		℄
"			557	2173	13' (LT) EDGE	
"			396	−123		" = 5.6+32.0 = 39.6

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
		27 30			LEFT (SOUTH)	RIGHT (NORTH)
3+50			534	2196	℄	
"			546	2184	13' (LT) EDGE	
			435	-162	Rod+Lead Line = 55+38.0 = 43.5	
"			570	2160		17' (RT) EDGE
"			447.4	-174	Rod+Lead Line = 5.7+38.7 = 44.7.4	
3+78 ℄			523	2207		17' (RT) EDGE
			472	-199	" = 52+42.0 = 47.2	
"	4.95	27 15	510	2220	13' LT	
"			47.1	-198	" Rod+Lead Line = 5.1+42.0 = 47.1	
TP	5.04	26 87	532	2183	℄	
0+00			764	1923		

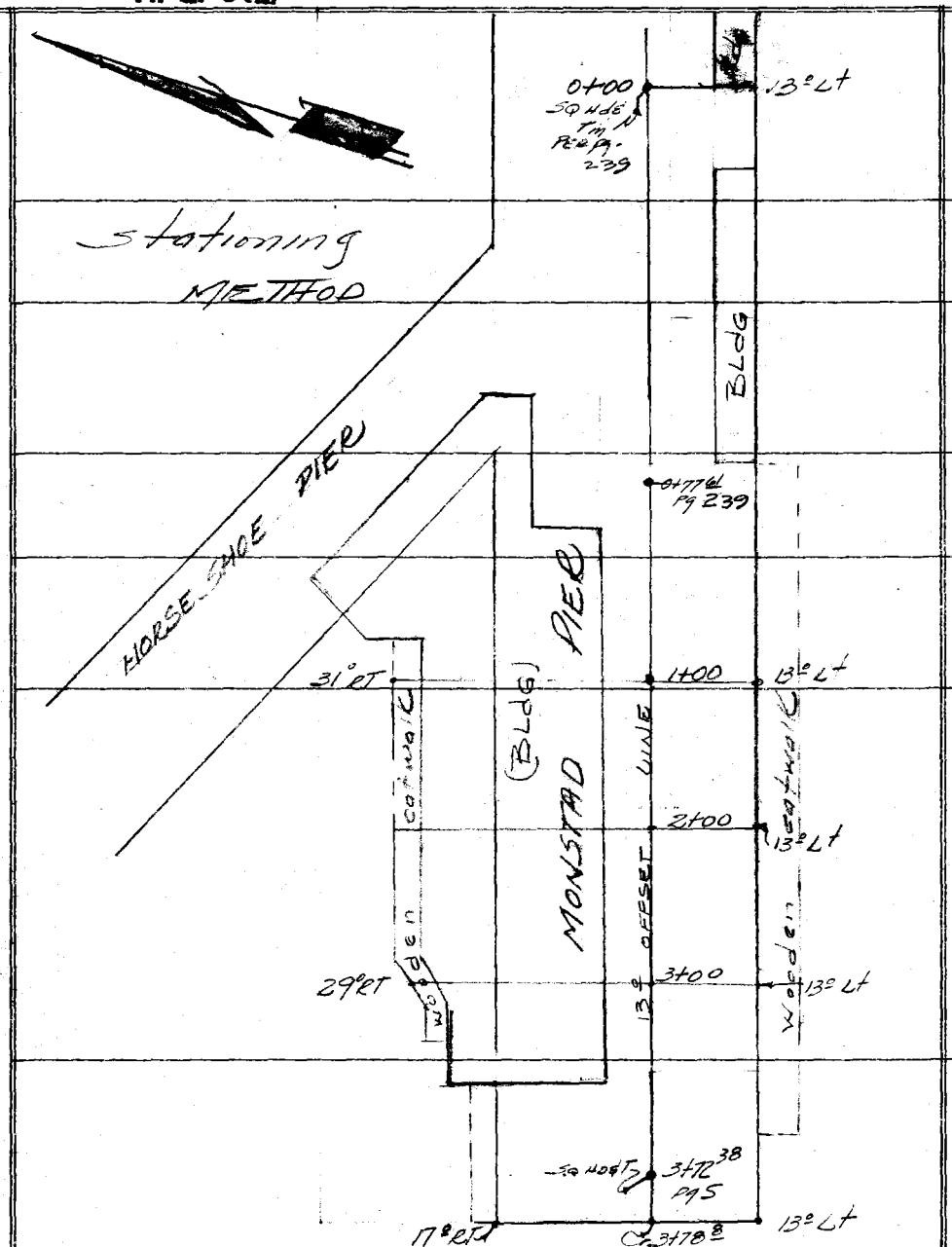
Profile No. _____ Date _____ Notes Red _____ Plotted _____ Job No. 25000 Division No. 11 F. B. 2806 Pg. 2-86
Profile No. _____ Date _____ Notes Chkd _____ Checked _____ Survey of Beach Erosion Survey by Acme Map No. _____ Indexed _____ Date _____ Monstad Pier Date Apr 27 1962 Date _____ W. S. 82

F. B. 2-806 Pg. 246 Job No. 6300.02 Division No. 11 Notes Red _____ Plotted _____ Profile

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

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

Indexed H. E. OTT Date MAY 8 '62 Date _____ Date _____ No. _____



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76L-298 S & E #307—1-56

F. B. 2806 Pg. 47

Profile No.	Notes Red	Plotted	Job No 0300.02	Division No. 11	
	Date	Date	Survey of BEACH EROSION MONSTAD PIER		
Follow No.	Notes Chkd	Checked	Survey by A.C.G.	Notes P.G.	Date 9-11-62
	Date	Date	Map No.	Indexed C. J. GALLI	Date SEP 13 '62

JOB NO 0300.02

BEACH EROSION STUDY

OF

MONSTADT PIER

(FOR STATIONING METHOD SEE FB 2806-246)

STATION	B. S.	H. I.	F. S.	ELEV.	
					GUIZADO
					SMITH RD.
					GUIZADO G.
					LYBRAND
					GLIDDEN

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761-298 S & E #307—1-56

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F. B. 2806 Page 248 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of BEACH ELEVATION MONITOR PIER Date 9-11-62 Date No. X-Sec.
Survey by A.C.G. Notes P. 3 Notes Chkd. Checked
Indexed C. J. GALL Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
S-19	6.00	27.56		21.56	S-19 ELEV.= 21.565 (M.L.L.W.)	
					FD. C.S. MON DN. 2"	
T.P.	5.27	27.37	5.46	22.10	PER F.B. 930-17	
					" " 2100-29	
BM 21-47	5.09	24.59	7.87	19.50	BM 21-47 ELEV.= 16.716+2.80=19.516 (MLLW)	
					LEFT OR (SOUTH)	RIGHT OR (NORTH)
0+00	9.55	28.75	5.39	19.20	℄	
1+00			7.60	21.15		31' (RT) TOP OF WALK
"			2.98	-1.11	ROD + LEAD LINE =	7.6+22.2 = 29.8
1+50			7.78	20.97		"
"			32.7	-4.0	" =	7.8+24.9 = 32.7
2+00			7.70	21.05		"
"			3.56	-6.9	" =	7.7+27.9 = 35.6
2+50			7.90	20.85		"
"			3.89	-1.02	" =	7.9+31.0 = 38.9
3+00			7.90	20.85		"
"			42.4	-13.7	" =	7.9+34.5 = 42.4

76L-298 B.B.K #807—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.	LEFT or (SOUTH)	RIGHT or (NORTH)
0+00	8 05	27 25		19 20	℄	
"			7 97	19 28		ROD+LEADLINE=8.0+14.2=22.2
"			22 2	50		
0+75			5 49	21 76	℄	
"			5 38	21 87	13' (LT) EDGE	
"						ROD+LEADLINE=
1+00			5 25	22 00	℄	
"			5 27	21 95	13' (LT) EDGE	
"			26 8	04		" =5.3+21.5=26.8
1+50			531	21 94	℄	
"			534	21 91	13' (LT) EDGE	
"			29 4	- 2.2		" =5.3+24.5=29.4
2+00			540	21 85	℄	
"			546	21 79	13' (LT) EDGE	
"			327	- 5.5		" =5.5+27.2=32.7
2+50			544	21 81	℄	
"			555	21 70	13' (LT) EDGE	
"			358	- 8.6		" =5.5+30.3=35.8
	5 54	27 35	5 44	21 81		

Profile Notes Red. _____ Plotted _____ Job No. 3300-02 Division No. 11 F. B. 2806 Pg. 249
X-Sec. Notes Blk. _____ Date _____ Survey of BELLA VISTA DRIVE MONTHLY BILL
No. _____ Date _____ Checked _____ Survey by RCG Notes RG Date 5-16-62
Map No. _____ Indexed B. J. GALLI Date _____

F. B. 2806 Pg. 250 Job No. 03002 Division No. 11 Notes Red. ___ Plotted ___

Survey of BEACH ERosion MONITORING Date ___

Survey by A.P.G. Notes R.G. Notes Chkd. ___ Checked ___

Indexed G. J. GALLI Date 9/11-62 Date ___

3+00			564	21 71		℄
"			565	21 70	13' (LT) EDGE	
"			39	-12 1		ROD + LEAD LINE = 5.6+33.8 = 39.4
3+50			541	21 94		℄
"			552	21 82	13' (LT) EDGE	
"			435	-16 2		" = 5.5+38.0 = 43.5
"			584	21 51		17' (RT) EDGE
"			441	-16 8		" = 5.8+38.8 = 44.6
3+78 ℄			531	22 04		17' (RT) EDGE
"			470	-19 7		" = 5.3+41.7 = 47.0
"			530	22 05	13' (LT) EDGE	
"			471	-19 8		" = 5.3+41.8 = 47.1
T.P.	540	27 27	554	21 81		
0+00			807	19 25	ELEV. = 19.20	