Notes Ck'd by	Survey of
Map No.	W. O. Tape No. Sr'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson 4-9-56

F.B. 1510 Pg. 5

BEACH EROSION STUDIES

— SOUNDINGS —

JN 0300.02

AUG 1 - 1955 To AUG 8 - 1955

From 292+65-S To 102+50-S

M. A. VanDeren
K. Kvammen
W. Richards
J. Bazen
T. Edwards
A. Santucci
R. Turrill
J. Henderson

Microfilmed May '88

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

Do not extend notes this side of this line.

F. B. 1570 PG. 6

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by VanDeren
Checked	Notes Date 8-1-55
Date	Indexed C. Johnson

F. B. 1510 PG. 6A

August 1, 1955

No reading, Tide Gage out of Order.

From Hendry Tide Book

530	1.8
600	2.2
630	2.7
700	3.1
730	3.3
800	3.5
830	3.6
900	3.7
930	3.6
1000	3.5
1030	3.3
1100	3.1

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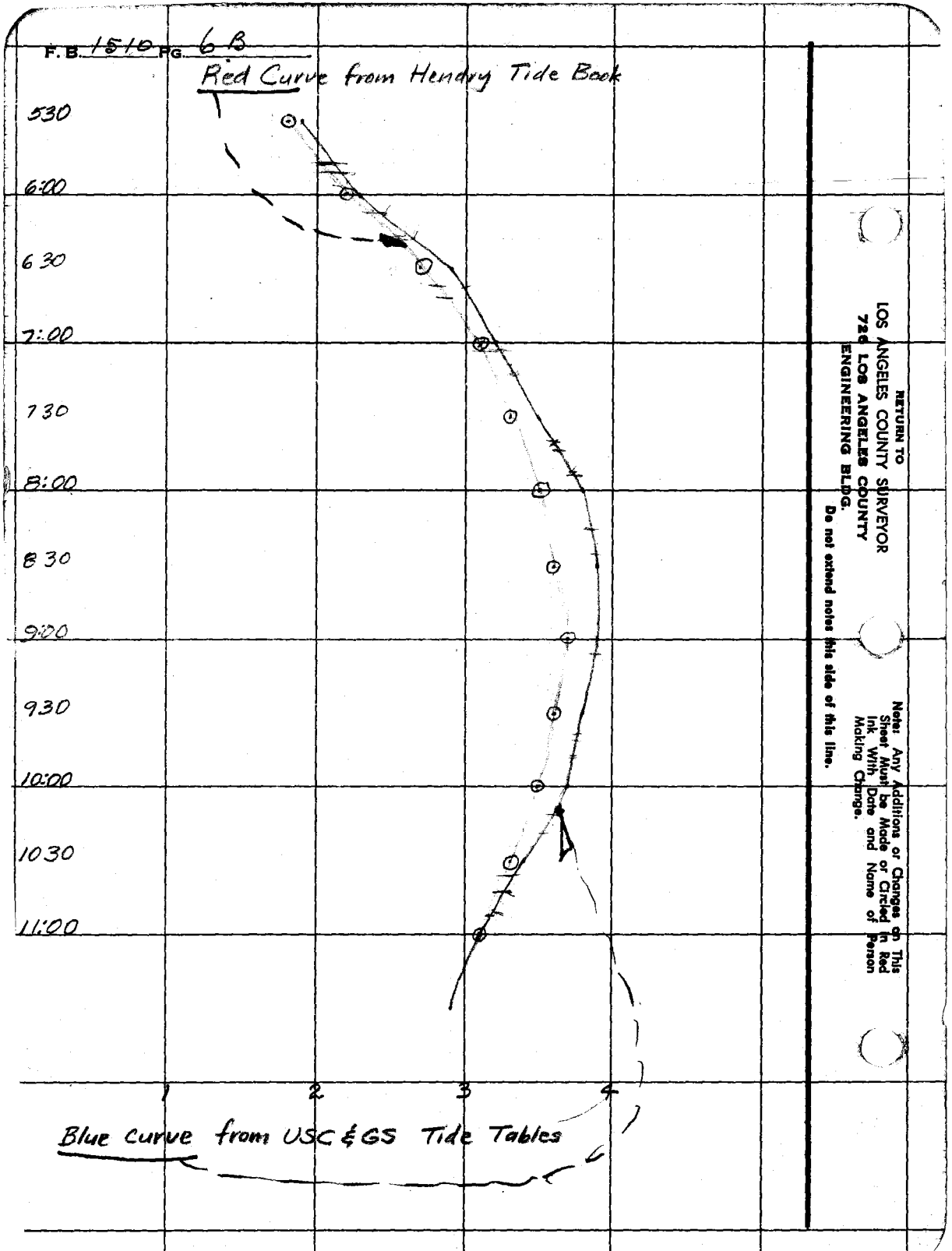
78F3098 247 4-55

F.B. 1510 PG. 6B



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76L298 307 8-53

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Do not extend notes this side of this line. CUT IN 4

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT.	SIGHT ON
S-16	5 41	23 81		18 40		
292+65	4 30	23 62	4 49	19 32		
			3 90	19 72	Top rocks 24 ± R.	
			18 3	5 32	Bot. rocks 5 ± R.	

F. B. 1510 Pg. 8

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.	

761.298 307 8-53

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Profile No. ____ X-Sec. No. ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Plotted ____ Date ____ Checked ____ Date ____

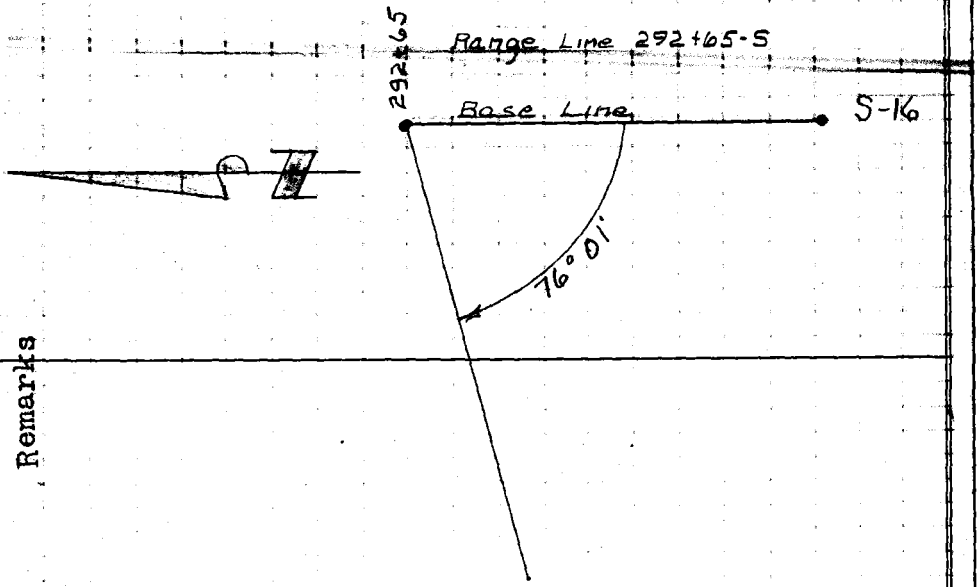
Job No. 0300.01 Division No. 10

Survey of Beach Erosion Studies

Survey by Van Dorn Notes J.N.E. Date 8-1-55

Map No. ____ Indexed S. Johnson Date ____

F. B. 1510 Pg. 9



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
S-16	1			76° 01'	
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20			76° 01'	
292+65				76° 01'	

Do not extend notes this side of this line.

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76L298 307 8-53

F. B. 1510 Pg. 10 | Job No. 300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 8-1-55 | Date | No.

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

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

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

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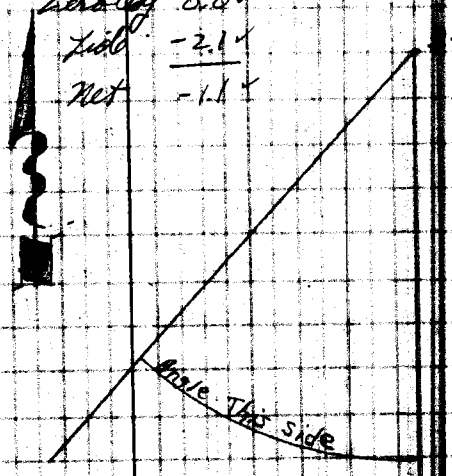
Profile Notes Red. Plotted. Job No. 53202 Division No. 10 Sht. 10 Pg. 4

No. Date Survey of Beach Erosion Study
No. Date Notes Chkd. Checked. Survey by Indexed. Jobbing
No. Date Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Lost Sight At / On	#	Color	Time	Hor. Ang.			Fathoms & Feet
	1	85.2 14.2 84.1	5:47	63° 36'	1380	✓	Boat +1.0
	2	80.4 13.4 79.3		62° 58'	1303	✓	Zero adj 0.0
	3	75.0 12.5 73.9		62° 37'	1269	✓	Tide -2.1
	4	72.0 12.0 70.9		62° 10'	1222	✓	Net -1.1
	5	66.0 11.0 64.9		61° 40'	1175	✓	
	6	60.0 10.0 58.9		60° 56'	1109	✓	
	7	55.8 9.3 54.7		60° 15'	1054	✓	
S15	8	52.8 8.8 51.7		58° 57'	961	✓	
S16	9	void		57° 53'	896	✓	
	10	43.6	42.5	54° 54'	746	✓	
	11	32.5	31.4	52° 49'	665	✓	
	12	28.7	27.6	51° 42'	629	✓	
	13	26.4	25.3	50° 47'	595	✓	
	14	24.2	23.1	49° 56'	570	✓	
	15	22.8	21.7	48° 54'	539	✓	
	16	21.6	20.5	47° 33'	507	✓	
	17	20.4	19.2	45° 57'	470	✓	
	18	19.7	18.6	44° 32'	439	✓	
	19	18.8	17.7	43° 30'	420	✓	
	20	18.6	17.5	42° 07'	398	✓	



76L298 307 4-60

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Do not extend notes this side of this line.

F. B. 1170 Pg. 12 Job No. 02002 Division No. 10 Notes Red _____ Plotted _____ Profile
Survey of Beach Erosion Study Date 8-7-56 No. _____ X-Sec.
Survey by Van Aeren Notes R.T. Notes Chkd. _____ Checked _____
Indexed C. Johnson Date _____ Date _____ Date _____ No. _____

STATION		B. S.	H. I.	F. S.	ELEV.			Remarks	
Inst. Sight									
At	On	#	Color	Time	Hor. Ang.				
		21	17.4 / 16.3		40° 45'	371	✓	Cut in	292+65-S
		22	16.4 ✓ 15.3		37° 02'	342	✓		
		23	15.2 ✓ 14.1		35° 56'	299			
		24	14.6 ✓ 13.5		33° 46'	270	✓		
		25	13.7 ✓ 12.6		31° 36'	245	✓		
		26	12.4 ✓ 11.3		29° 10'	218	✓		
		27	10.6 ✓ 9.5		25° 45'	185	✓		
		28	9.2 ✓ 8.1		22° 32'	154	✓		
~S-15	S-16	29	void	5:55					

76L298 307 8-53

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Do not extend notes this side of this line. LOT IN X 5-15 289+34.57

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
292+65	6.35	25.67		19.32		
290+65			4.90	20.77		
	0.0	21.3	4.1	[illegible]	[illegible]	21°R
			21.0	0.3	[illegible]	[illegible]

Inshore
292+65

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. [illegible] Pg. 13
No. Date Date Survey of [illegible] Notes [illegible] Date 8-1-55
X-Sec. Notes Chkd. Checked Survey by [illegible] Johnson
No. Date Date Map No. Date

F. B. 1510 Pg 4

Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

761.298 307 8-53

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

76L298 307 8-53

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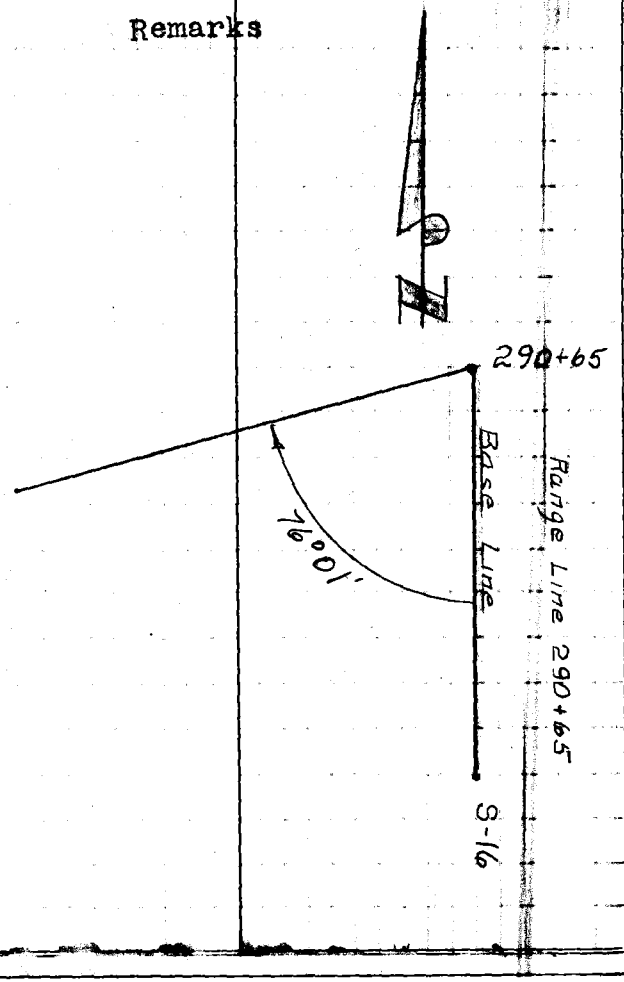
Profile Notes Red. Plotted Job No. 2300.2 Division No. 10 F. B. 1510 Pg. 15
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Vanderveer Cincies. J.J.E. Date 8-1-53
No. Date Date Map No. Traced J. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:08	76° 01'	
	2			76° 01'	
	3			76° 01'	
	4			76° 01'	
	5			76° 01'	
	6			76° 01'	
	7			76° 01'	
	8			76° 01'	
	9			76° 01'	
	10			76° 01'	
	11			76° 01'	
	12			76° 01'	
	13			76° 01'	
	14			76° 01'	
	15			76° 01'	
	16			76° 01'	
	17			76° 01'	
	18			76° 01'	
	19			76° 01'	
	20			76° 01'	
290+65 S-16					



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F. B. 1510 Pg. 16 | Job No. 30002 Division No. 10 | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date 8-1-53 | Date | No.
Survey by Van Deren | Notes Chkd. | Checked | X-Sec.
Indexed J. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		21			76° 01'	
		22			76° 01'	Range Line 290+65-S
		23			76° 01'	
		24			76° 01'	
		25			76° 01'	
		26			76° 01'	
		27			76° 01'	
		28			76° 01'	
290+65	91-S	29			76° 01'	
		30			76° 01'	
		31			76° 01'	
		32			76° 01'	
		33			76° 01'	
		34			76° 01'	
		35			76° 01'	
		36			76° 01'	
		37			76° 01'	
		38			76° 01'	
		39			76° 01'	
		40			76° 01'	

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 63-00-01 Division No. 10 F. B. 1340 Pg. 17
No. Date Date Survey of Beach Erosion Notesville Date 6-1-63
No. Notes Chkd. Checked Survey by Heathman Notesville Date 6-1-63
No. Date Date Map No. Chkd. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	41			76° 01	
	42			76° 01	Range Line 290+65 - S
	43			76° 01	
	44		6:17	76° 01	
290+65 S-12					

F. B. 1510 Pg. 18 | Job No. 0300.0V Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date 8-1-55 | Date | No.

Survey by Van Derem Notes JJ E | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 4-50

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TEL298 307 4-50

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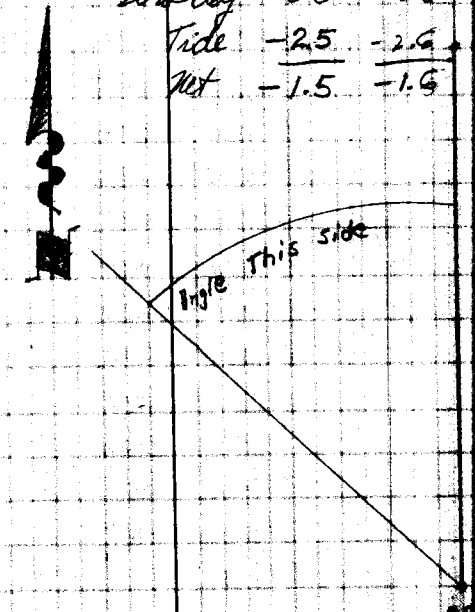
Profile Notes Red. Plotted Job No. 32262 Division No. 10

Notes Chkd. Checked Survey by [illegible] Date 6-6-66

Map No. Date Map No. Date

Inst. Sight At	On	#	Color		Time	Hor. Ang.		Remarks	14 thru 23	22 thru 1
		1	66.0 ✓	71.0 64.5	6:08	97° 31'	1750	Beam	+1.0	+1.0
		2	67.8	113 ✓ 66.3		97° 03'	1630	Zero Adj	0.0'	0.0'
		3	66.0	11.0 64.5		96° 29'	1510	Tide	-2.5	-2.6 -15
		4	64.9	10.8 63.3		96° 18'	1478	Net	-1.5	-1.6
		5	65.4	10.9 63.9		96° 15'	1470			
		6	61.2	10.2 59.7		95° 52'	1400			
		7	55.8	9.3 54.3		95° 27'	1337			
		8	VOID ✓			95° 02'	1277			
		9	VOID ✓			94° 45'	1240			
		10	49.0 ✓	47.5		94° 37'	1224			
		11	47.5 ✓	46.0		94° 22'	1191			
		12	46.0 ✓	44.5		94° 03'	1155			
		13	44.0 ✓	42.5		93° 45'	1120			
		14	42.3 ✓	40.8		93° 28'	1092			
		15	41.6 ✓	40.1		93° 07'	1050			
		16	40.2	38.7		92° 46'	1028			
		17	38.8 ✓	37.3		92° 24'	999			
		18	37.3 ✓	35.8		92° 09'	976			
		19	36.4 ✓	34.9		91° 52'	951			
		20	35.4 ✓	33.9		91° 16'	908			



292+65-5

S-15

Cut 1½ 290+65-5

29[illegible]+65-5

Pg. 19

76L298 307 4-58

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F. B. 1510 Pg. 10 Job No. 2360.02 Division No. 10 Notes Red Date 8-1-55 Plotted Profile
Survey of Beach Erosion Study Date X-Sec.
Survey by Van Dorn Notes A.T. Notes Clkd Checked
Indexed C. Johnson Date Date No.

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	34.0 ✓	32.5		90° 56'	887	Cut in 290+65-S
		22	32.9 ✓	31.3		90° 25'	852	
		23	31.7 ✓	30.2		89° 41'	820	
		24	30.2 ✓	28.7		89° 03'	780	
		25	28.8 ✓	27.3		88° 28'	750	
292+65-S		26	27.7 ✓	26.2		87° 55'	720	
		27	26.8 ✓	25.3		87° 20'	700	
	S-15	28	26.2 ✓	24.7		86° 35'	670	
		29	24.5 ✓	23.0		85° 52'	641	
		30	23.3 ✓	21.8		84° 24'	595	
		31	22.6 ✓	21.1		82° 49'	550	
		32	21.7	20.2		82° 20'	535	
		33	21.6	20.1		81° 30'	517	
		34	20.4 ✓	18.9		80° 24'	493	
		35	19.5 ✓	18.0		78° 54'	465	
		36	18.6 ✓	17.1		76° 58'	430	
		37	17.9 ✓	16.4		73° 51'	383	
		38	16.7 ✓	15.2		71° 45'	357	
		39	15.9	14.4		68° 27'	320	
		40	15.4 ✓	13.8		64° 08'	280	

76L298 307 4-50

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Profile Notes Red. Plotted Job No. Division No. E.B. Pg.
Bk. Date Survey of Page Ave. Extension Study
Page Notes Chkd. Date Survey by Date
No. Date Map No. Checked by Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	41	14.1 12.6		60° 21'	252
	42	12.7 11.2		55° 26'	220
	43	11.9 10.4		51° 25'	198
	44	VOID	6-17	41° 33'	148
S-15					15
292+65-S					Cut in 292+65-S
					Angle this side
					292+65-S

76L298 307 4-56

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F. B. 1870 Pg. 22 Job No. 23262 Division No. 12 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-1-57 Date No. X-Sec.
Survey by Van Deren Notes A.T. Notes Chkd. Checked
Indexed Date Date Date No.

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

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
290+65	5.10	25 3[illegible]		20 77		
5-15			[illegible]	[illegible]	[illegible] F.S. 2.05 -1.59	
5-15	[illegible]	25 [illegible]	[illegible]	[illegible]		
288+65			3.12	[illegible]		
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
			20 C	-0.5	EDM.	

Profile Notes Red. Plotted Job No. Division No. 13 F. B. 1510 Pg. 29
No. Date Date Survey of BLACH & ASSOC. SURVEYS
X-Sec. Notes Chkd. Checked Survey by [illegible] Notes C.C. Date 8-1-55
No. Date Date Map No. Revised: J. Johnson Date

Inshore
5
288+65

F. B. 1510 Pg. 24 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.

761.296 307 8-53

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

76L298 307 8-53

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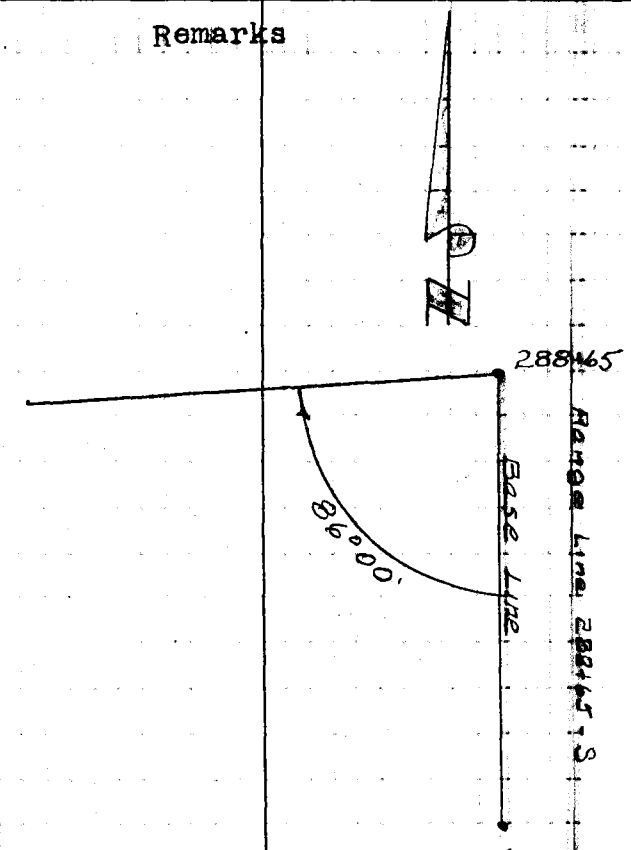
Profile Notes Red____ Plotted____ Job No. 070007 Division No. 10 F. B. 1570 Pg. 15
No.____ Date____ Date____ Survey of BEACH EROSION
X-Sec. Notes Chkd____ Checked____ Survey by Van Doren Noted J.J.E. Date 8-1-55
No.____ Date____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:37	86° 00'	
	2			86° 00'	
	3			86° 00'	
	4			86° 00'	
	5			86° 00'	
	6			86° 00'	
	7			86° 00'	
	8			86° 00'	
	9			86° 00'	
	10			86° 00'	
	11			86° 00'	
	12			86° 00'	
	13			86° 00'	
	14			86° 00'	
	15			86° 00'	
	16			86° 00'	
	17			86° 00'	
	18			86° 00'	
	19			86° 00'	S-15 at 289+33.57S
	20			86° 00'	



S-15
288+65

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 4510 Pg. 26 Job No. 83002 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date 8-1-55 Date No. Profile
Survey by Van Doren Notes Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21			86° 00'	
	22			86° 00'	Range Line 288+65-S
	23			86° 00'	
	24			86° 00'	
	25			86° 00'	
	26			86° 00'	
	27			86° 00'	
288+65- / 5-15-	28			86° 00'	
	29			86° 00'	
	30			86° 00'	
	31			86° 00'	
	32			86° 00'	
	33			86° 00'	
	34			86° 00'	
	35			86° 00'	
	36			86° 00'	
	37			86° 00'	
	38			86° 00'	
	39			86° 00'	
	40			86° 00'	

76L298 307 10-51

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Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. 2300.02 Division No. 10
No. Date Date Survey of Beach Erosion F.B. 1610 Pg. 27
X-Sec. Notes Chkd Checked Survey by Ken Dreier NSRD VLC Date 8-1-55
No. Date Date Map No. Traced Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		41			86° 00'	
		42			86° 00'	Range Line 288+65-S
		43			86° 00'	
		44			86° 00'	
		45			86° 00'	
		46			86° 00'	
		47			86° 00'	
288+65-	S-15-	48		6:42	86° 00'	

76L298 307 10-51

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F.B. 1570 PG. 28 Job No 0300.01 Division No. 10 Notes Red. Date 8-15-51 Plotted Date No.
Survey of Beach Erosion Notes Chkd Checked Date No.
Survey by Van Deren Notes SJE
Indexed C. Johnson Date Date
Profile X-Sec.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
					Range Line	288+65-S

764.298 307 4-50

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

Do not extend notes this side of this line.

Profile Notes Red_____ Plotted_____ Job No. 0.3964 Division No. 70 F.B. 1376

No. 12,000 Date_____ Surveyed by Ross & Fraser & Stucky F.B. 1376

Notes Chkd_____ Checked_____ Survey by Ross & Fraser & Stucky F.B. 1376

No._____ Date_____ Map No._____ Redrafted Johnson Date_____

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.			
	1	60.8 10.0 57.4	6:37	97° 48'	3000	✓	
	2	61.2 10.2 58.6		97° 36'	3620		
	3	60.0 10.0 57.4		97° 18'	3450		
	4	61.8 10.3 59.2		97° 03'	3335		
	5	63.0 10.5 60.4		96° 48'	3225	✓	
	6	63.0 10.5 60.4		96° 20'	3010	✓	
	7	63.0 10.5 60.4		95° 46'	2805	✓	
	8	61.8 10.3 59.2		95° 00'	2565	✓	
	9	60.0 10.0 57.4		94° 03'	2321	✓	
	10	54.0 9.0 51.4		93° 08'	2130		
	11	51.0 8.5 48.4		92° 15'	1965		
	12	47.5 45.2		91° 05'	1790	✓	
	13	45.2 43.0		90° 22'	1710	✓	
	14	43.1 40.9		89° 38'	1612	✓	
	15	41.2 39.0		89° 02'	1547	✓	
	16	39.2 37.0		88° 27'	1492	✓	
	17	38.4 36.2		87° 44'	1421	✓	
	18	36.4 34.2		87° 14'	1382	✓	
	19	35.6 33.4		86° 31'	1343		
	20	34.9 32.7		85° 45'	1270	✓	

292+65-S

S-15

Fathoms 5 7

Beam +1.0 +1.2 ✓
Corr Obj -.6 -.2
Tide -3.0 +1.0
Tot -2.6 =.2

292+65-S 86° 00'

110.18'

Angle this side

5 Cut in 292+65-S

292 [illegible] -S

76L298 307 4-50

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Do not extend notes this side of this line.

F.B. 3112 Pg. 30 | Job No. 0706-22 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-7-55 Date No. X-Sec.
Survey by L.A. Dept. Notes R.T. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION At	On	B. S.	H. I.	F. S.	ELEV.	Time	Hor. Ang.		Remarks
		#	Color						
		21	33.6	31.4			85° 00'	1220 ✓	Cut in 288+65-S
		22	32.9	30.7			84° 17'	1173 ✓	
		23	31.8	29.6			83° 30'	1130 ✓	
		24	30.8	28.6			82° 20'	1067 ✓	
		25	29.8	27.6			81° 25'	1022 ✓	
		26	29.2	27.0			80° 37'	985 ✓	
292+65-S		27	28.6	26.4			79° 12'	930 ✓	
		28	27.6	25.4			78° 20'	898 ✓	
	S-15°	29	27.2	25.0			77° 20'	861 ✓	
		30	26.4	24.2			76° 10'	834 ✓	
		31	25.9	23.7			74° 47'	783 ✓	
		32	24.7	22.5			73° 20'	745 ✓	
		33	23.7	21.5			71° 17'	692 ✓	
		34	22.9	20.7			69° 50'	660 ✓	
		35	22.4	20.2			67° 50'	618 ✓	
		36	20.7	18.5			65° 50'	581 ✓	
		37	20.5	18.3			63° 17'	539 ✓	
		38	20.2	18.0			61° 57'	515 ✓	
		39	19.7	17.5			58° 13'	465 ✓	
		40	18.7	16.5			55° 35'	431 ✓	

761.398 307 4-50

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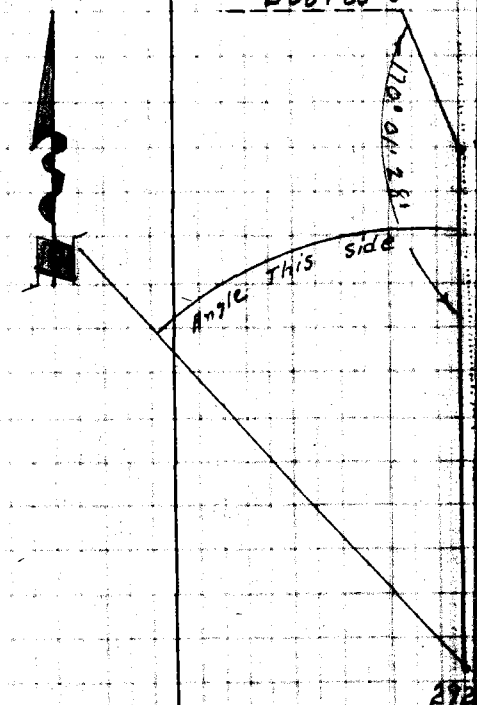
Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 70002 Division No. 12 Fd. 31
No. ____ Date ____ Date ____ Survey of Flood Erosion Study
No. ____ Date ____ Notes Chkd____ Checked ____ Survey by W.A. Boyd, Noah A.T. Date 6-6-70
No. ____ Date ____ Map No. ____ Jobs Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	41	18.0 15.8		51° 40'	387
	42	17.2 15.0		47° 57'	349
	43	16.6 14.4		43° 40'	307
	44	16.0 13.8		39° 10'	269
	45	14.2 12.0		34° 05'	230
	46	13.0 10.8		29° 36'	194
	47	void		24° 28'	159
292+65-S / S 51-S	48	void	6:42	17° 25'	109



-15 Cut 177 288+65-S

F. B. 1576 Pg. 32

Job No. 630.03 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-1-56 Date No.

Survey by Van Deren Notes R.T. Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

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

765.298 307 4-56

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76L298 307 8-53

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Do not extend notes this side of this line. CUT IN X

STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT	SIGHT ON
288+65	5.34	22.46		17.12		
286+65	0.0	19.95	2.69	19.77	top of 288+65 = new station	
			17.3	2.7	22.46	33.51

Profile Notes Red. Plotted Job No. 0300.02 Division No. F. B. Pg. 33
No. Date Date Survey of Access Roads
X-Sec. Notes Chkd. Checked Survey by Notes Date 8-1-65
No. Date Date Map No. Traced Date

5. Inshore

F. B. 1510 Pg. 34 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

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

Indexed | Date | Date | Date | No.

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

761298 307 8-53

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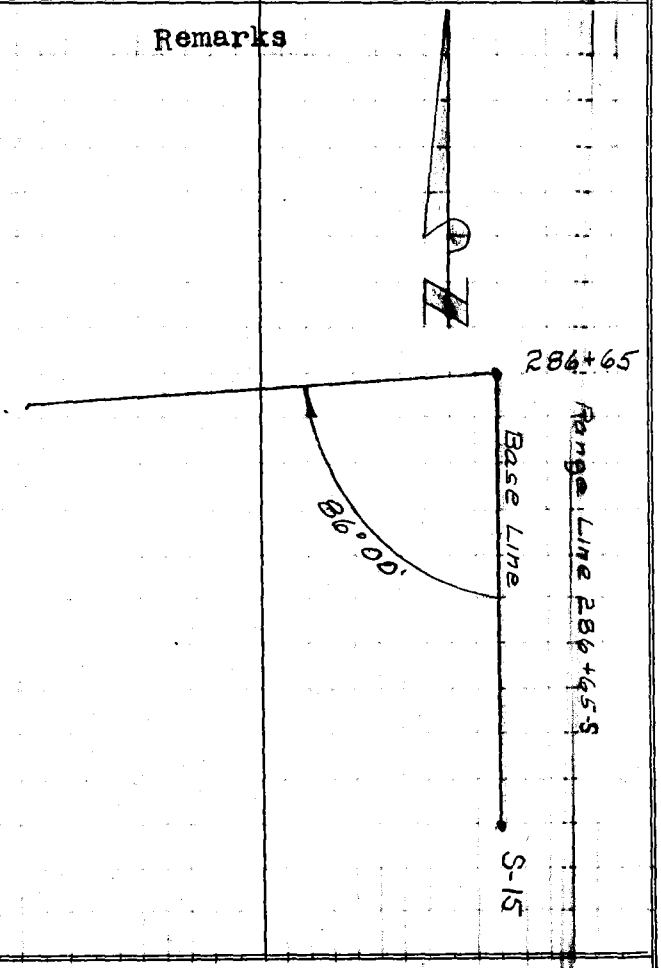
Profile Notes Red_____ Plotted_____ Job No. 230802 Division No. 10 F. B. 1509 Pg. 35
No._____ Date_____ Date_____ Survey of 35 & 36 [illegible]
X-Sec. Notes Chkd._____ Checked_____ Survey by Van Doren Notes J.L.E. Date 8-1-53
No._____ Date_____ Date_____ Map No._____ Checked Johnson Date_____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:03	86° 00'	
	2			86° 00'	
	3			86° 00'	
	4			86° 00'	
	5			86° 00'	
	6			86° 00'	
	7			86° 00'	
	8			86° 00'	
	9			86° 00'	
	10			86° 00'	
	11			86° 00'	
	12			86° 00'	
	13			86° 00'	
	14			86° 00'	
	15			86° 00'	
	16			86° 00'	
	17			86° 00'	
	18			86° 00'	
	19			86° 00'	
	20			86° 00'	



286+65
S-15

76L298 307 8-53

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

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F. B. 1509 Pg. 36 | Job No 8302.02 Division No. 12 Notes Red. Plotted
Survey of Beach Erosion Date 8-1-53 Date X-Sec.
Survey by Van Deren Notes Chkd. Checked
Indexed J. C. Johnson Date Date Date No.
Profile

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			86°00'		
		22			86°00'		
		23			86°00'	Range Line	286+65-S
		24			86°00'		
		25			86°00'		
		26			86°00'		
		27			86°00'		
286+65	S-15	28			86°00'		
		29			86°00'		
		30			86°00'		
		31			86°00'		
		32			86°00'		
		33			86°00'		
		34			86°00'		
		35			86°00'		
		36			86°00'		
		37			86°00'		
		38			86°00'		
		39			86°00'		
		40			86°00'		

76L298 307 8-53

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Profile Notes Red. Plotted Job No. 23002 Division No. 10 F.B. 1500 Pg. 37
No. Date Date Survey of Darden Enterprises Studies
X-Sec. Notes Chkd. Checked Survey By Van Deren WE Date 8-1-73
No. Date Date Map No. Mike Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	41			86° 00'		
	42			86° 00'	Range Line 286+65 - S	
	43			86° 00'		
	44			86° 00'		
	45			86° 00'		
	46			86° 00'		
	47			86° 00'		
	48			86° 00'		
	49			86° 00'		
	50			86° 00'		
	51			86° 00'		
286+65 / S-15	52		7:13	86° 00'		

F. B. 1510 Pg. 38 | Job No. 3300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 8-1-51 | Date | No.

Survey by Van Deren | Notes JDS | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

761.298 307 8-53

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

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Do not extend notes this side of this line.

Fathoms Feet
Boat +1.0 +
Zero Adj - .24 -
Tide -3.3 -
Net -2.5 +

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At OH	# Color	Time	Hor. Ang.	
	1 54.6 9.1 49.9	7:03	91° 15'	2720
	2 54.0 9.0 49.3		90° 45'	2631
	3 53.4 8.9 48.7		90° 10'	2512
	4 53.4 8.9 48.7		89° 56'	2468
	5 52.8 8.8 48.1		89° 36'	2403
	6 52.8 8.8 48.1		89° 10'	2330
	7 VOID		88° 36'	2242
	8 VOID		88° 09'	2180
	9 VOID		87° 46'	2127
	10 VOID		87° 31'	2111
	11 VOID		86° 37'	1987
	12 VOID		86° 18'	1950
	13 VOID		85° 25'	1857
	14 VOID		84° 28'	1766
	15 46.8 7.8 42.1		84° 08'	1731
	16 45.8 7.5 40.3		83° 27'	1670
	17 45.8 7.5 40.8		82° 50'	1621
	18 43.0 7.9 37.3		81° 50'	1545
	19 42.5 39.7		81° 20'	1511
	20 41.5 38.7		80° 55'	1483

Remarks: Tide

Profile Notes Red. Plotted Job No. Bonner Division No. 10
Notes Checked Survey by C. Johnson Date
Map No. Date

76L298 307 4-50

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Pg. 40 Job No. 2000 Division No. 10 Notes Rcd. Plotted
Survey of Beach Erosion Study Date 8-7-54 Date X-Sec. No.
Survey by Mapp Deuel Notes M.T. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I. -2.8	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
292+65-S	21	40.6 ✓ 37.8		80° 18'	1442 ✓	Cut in 286+65-S
S-15	22	39.7 ✓ 36.9		79° 32'	1392 ✓	
	23	39.1 ✓ 36.3		78° 59'	1362 ✓	
	24	38.4 ✓ 35.6		78° 10'	1320 ✓	
	25	37.1 34.3		77° 27'	1280 ✓	
	26	35.9 ✓ 33.1		76° 41'	1241 ✓	
	27	35.2 ✓ 32.4		75° 45'	1198 ✓	
	28	34.3 ✓ 31.5		74° 47'	1154 ✓	
	29	33.6 ✓ 30.8		74° 08'	1129 ✓	
	30	33.0 ✓ 30.2		73° 28'	1100 ✓	
	31	32.4 ✓ 29.6		72° 35'	1066 ✓	
	32	31.0 ✓ 28.2		71° 35'	1028 ✓	
	33	30.5 ✓ 27.7		70° 15'	981 ✓	
	34	29.9 ✓ 27.1		69° 01'	942 ✓	
	35	28.7 ✓ 25.9		66° 46'	874 ✓	
	36	27.5 ✓ 24.7		64° 36'	820 ✓	
	37	26.5 ✓ 23.7		62° 05'	756 ✓	
	38	25.7 ✓ 22.9		59° 16'	693 ✓	
	39	24.6 ✓ 21.8		56° 51'	645 ✓	
	40	24.0 ✓ 21.2		54° 40'	605 ✓	

76L298 307 8-53

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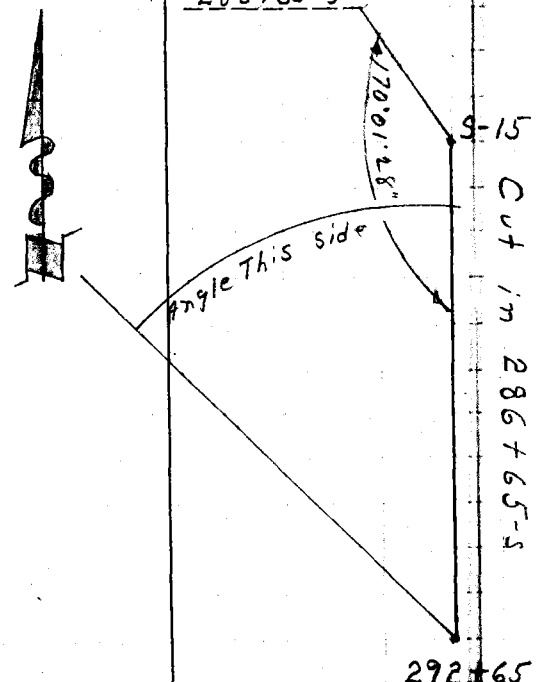
Profile Notes Red. ____ Plotted ____ Job No. 30002 Division No. 10 F.B. 1570 Pg. 41
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-1-54
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
INST. AT	SIGHT ON	#	Color		Time	Hor. Ang.		
		41	23.1	20.3		51° 47'	558	
		42	22.2	19.4		48° 20'	501	
		43	21.4	18.6		44° 28'	447	
		44	20.0	17.2		40° 25'	392	
		45	19.6	16.8		37° 02'	351	
		46	18.8	16.0		34° 11'	317	
		47	17.8	15.0		30° 57'	280	
		48	16.6	13.8		27° 26'	242	
	S-15	49	15.5	12.7		24° 00'	205	
		50	14.5	11.7		20° 35'	168	
		51	12.6	9.8		17° 25'	138	
292+65-S		52	Noio		7:13	14° 25'	106	



F. B. 1510 Pg. 42 | Job No 23002 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-1-55 | Date | No. | X-Sec.

Survey by Van Deren Notes R.T. | Notes Chkd. | Checked

Indexed | Date | Date | Date | No.

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

78L298 307 8-53

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76L298 307 10-51

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

Do not extend notes this side of this line. CUT IN X S-14 281+89.34

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
286+65	3 57	23 54		19 97		
284+65			5 24	18 30		
8' R	0 0	21 4	2 1	21 4	Top rocks	
95' R			23 2	-1 8	Bot. "	

Instore
S
284+65

Profile Notes Red Plotted Job No. 0360.02 Division No. 10 F.B. 1516 Pg. 43
No. Date Survey of BLACK & KOSTKA
X-Sec. Date Survey by ENGLISH Notes ED Date 8-1-55
Notes Chkd Checked Map No. Traced Johnson Date
No. Date Date

F.B. 1570 PG. 44 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.	

76L298 307 10-51

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76L298 307 8-53

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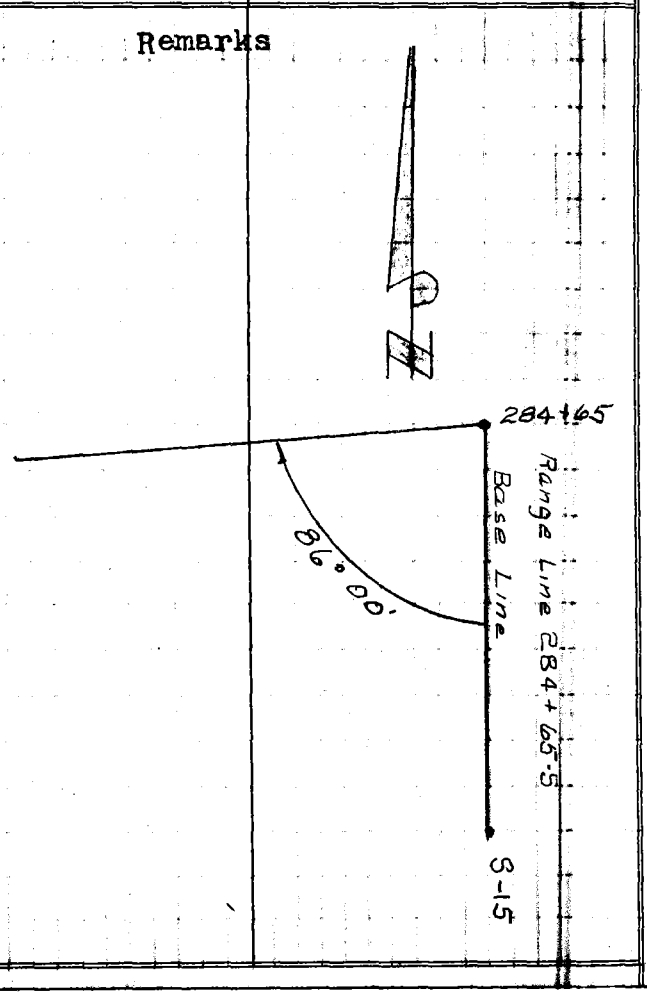
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 230-02 Division No. 10 F. B. 1510 Pg. 45
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes J.E. Date 8-1-53
No. Date Date Map No. Chk. C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:40	86° 00'	
	2			86° 00'	
	3			86° 00'	
	4			86° 00'	
	5			86° 00'	
	6			86° 00'	
	7			86° 00'	
	8			86° 00'	
284+65	9			86° 00'	
S-15	10			86° 00'	
	11			86° 00'	
	12			86° 00'	
	13			86° 00'	
	14			86° 00'	
	15			86° 00'	
	16			86° 00'	
	17			86° 00'	
	18			86° 00'	
	19			86° 00'	
	20			86° 00'	



76L298 307 8-53

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Do not extend notes this side of this line.

F.B. 1510 Pg. 16 Job No 3300.02 Division No 10 Notes Red. Plotted
Survey of Beach Erosion Date 8-1-55 Date No. Profile
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			86° 00'		
	22			86° 00'		
	23			86° 00'	Range Line 284+65-S	
	24			86° 00'		
	25			86° 00'		
	26			86° 00'		
	27			86° 00'		
284+65 / S-15	28			86° 00'		
	29			86° 00'		
	30			86° 00'		
	31			86° 00'		
	32			86° 00'		
	33			86° 00'		
	34			86° 00'		
	35			86° 00'		
	36			86° 00'		
	37			86° 00'		
	38			86° 00'		
	39			86° 00'		
	40			86° 00		

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight A ~~Ont~~ On	#	Color	Time	Hor. Ang.	Remarks	
	41			86° 00'		
	42			86° 00'	Range Line 284+65-S	
	43		9:53	86° 00'		
284+65						
S-15'						

Profile Notes Red. Plotted Job No. 2300.01 Division No. 10 F. B. 1510 Pg. 47
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Wm. Dereen Date 8-1-55
No. Date Date Map No. Wm. Johnson Date

F. B. 1510 Pg. 48 | Job No. | Division No. | Notes Red. | Plotted | Profile

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

Survey by Van Deren | Notes J.E | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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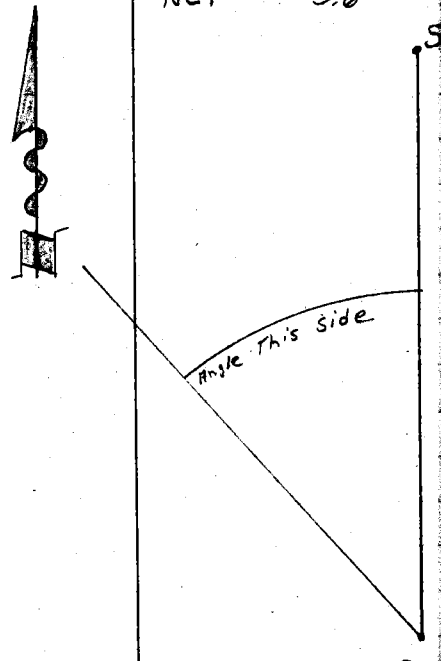
Do not extend notes this side of this line.

Profile Notes Red ____ Plotted ____ Job No. 2302.12 Division No. 10 F.B. 5570 Pg. 49
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. ____ Notes Chkd ____ Checked ____ Survey by Van Dorn, Nowell, RT Date 8-15-56
No. ____ Date ____ Date ____ Map No. ____ Traced J. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks	Fathoms	Feet
Inst. Sight At On	#	Color	Time	Hor. Ang.				
		54.0 9.0 48.4	7:40	84° 02'	2700		Boat +1.0	+1.0
	1	54.0 9.0 48.4		83° 49'	2650		Zero Adj -30	-0.0
	2	52.8 8.8 47.2		83° 23'	2540		Tide -3.6	+3.7
	3	51.0 8.5 45.4		82° 52'	2420		Net -5.6	+2.7
	4	50.4 8.4 44.8		82° 34'	2360			
	5	49.2 8.2 43.6	stopped					
	☆ 6	41.5 45.8	7:42	82° 02'	2250			
	7	48.0 45.3	started 7:44	81° 34'	2153			
	8	46.8 44.1		81° 01'	2070			
	9	46.2 43.5		80° 44'	2030			
	10	45.0 42.3		80° 25'	1980			
	11	44.7 42.0		79° 55'	1908			
	12	43.9 41.2		79° 19'	1822			
	13	43.2 40.5		78° 55'	1773			
	14	42.2 39.5		78° 19'	1706			
	15	40.6 37.9		77° 31'	1630			
	16	39.2 36.5		76° 58'	1563			
	17	37.9 35.2		76° 09'	1490			
	18	36.6 33.9		75° 12'	1410			
	19	34.7 32.0		74° 07'	1331			
	20	33.7 31.0		73° 07'	1260			

S-15 S-14



Cut in 284+65-S

76L298 307 10-51

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F.B. 5510 Pg. 50 | Job No 0320.02 Division No. 10 Notes Red. Date 8-1-55 Notes Chkd. Date | Plotted Date Checked Date | Profile No. X-Sec. No.

Survey of Beach Erosion Study

Survey By W.H. Davis Notes A.L.F.

Indexed E. C. Johnson Date

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		21	32.5	29.8		72° 05'	1200	Cut in 284+65-S
		22	30.9	28.2		70° 36'	1110	
		23	29.5	26.8		69° 10'	1046	
		24	29.2	26.5		67° 58'	1000	
		25	28.2	25.5		67° 04'	955	
		26	27.7	25.0		66° 14'	903	
		27	27.1	24.4		64° 20'	855	
		28	26.1	23.4		62° 47'	805	
		29	25.4	22.7		61° 34'	757	
S-15	S-14	30	24.7	22.0		59° 53'	700	
		31	24.2	21.5		56° 57'	651	
		32	23.1	20.4		54° 26'	600	
		33	22.2	19.5		51° 32'	546	
		34	21.6	18.9		48° 54'	500	
		35	20.6	17.9		45° 16'	443	
		36	20.2	17.5		41° 21'	396	
		37	19.2	16.5		36° 07'	330	
		38	18.0	15.3		31° 45'	281	
		39	16.9	14.2		26° 56'	232	
		40	15.0	12.3		21° 27'	180	

76L298 307 10-51

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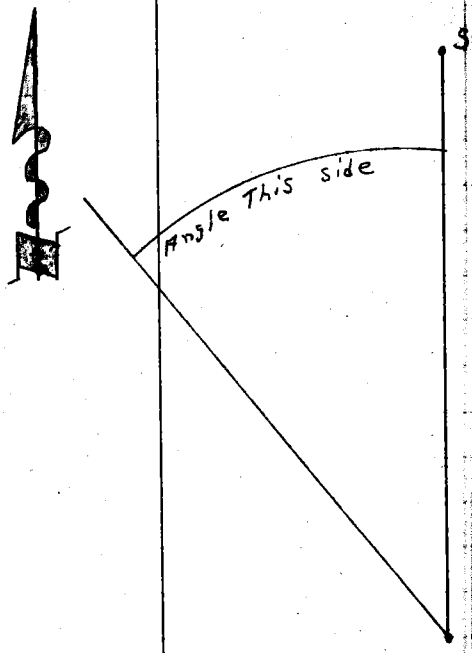
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight Pt. On	#	Color	Time	Hor. Ang.	Remarks	
	41	13.1 10.4		17° 00'	143	
	42	void		11° 14'	92	
	43	void		09° 30'	79	
S-15						S-14
S-14						S-15



Cut in 2847655

Profile Notes Red Plotted Job No 230402 Division No. 10 F.B. 570 Pg. 51
No. Date Survey of Beach Erosion Control Project
X-Sec. Notes Chkd Checked Survey by Bob Cornwall R.T. Date 8-11-55
No. Date Date Map No. Checked Johnson Date

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. 1510 Pg. 52 Job No 032202 Division No. 10 Notes Red Date 8-1-55 Plotted Date Profile No. X-Sec. No.

Survey of Beach Erosion Study

Survey by Mahlberg Notes R.T. Notes Chkd. Checked

Indexed Date Date Date

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

76L298 307 10-51

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

Do not extend notes this side of this line. CUT IN &

STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT	SIGHT ON
284+65	5 91	24 21		18 30		
280+65	0 0	19 41	4 81	19 40		
5' R			4 8	14 6	Top rocks	
39' R			21 4	-80	Bot. "	

Profile Notes Red Plotted Job No. 03200.02 Division No. 10 F.B. 1510 Pg. 53
No. Date Date Survey of EARTH FAULT STUDIES
X-Sec. Notes Chkd. Checked Survey by ENGLISH Notes ED Date 8-1-65
No. Date Date Map No. Recorded Johnson Date
Instore
5
280+65

F.B. 1510 PG. 54 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

76L898 307 10-51

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76L298 307 8-53

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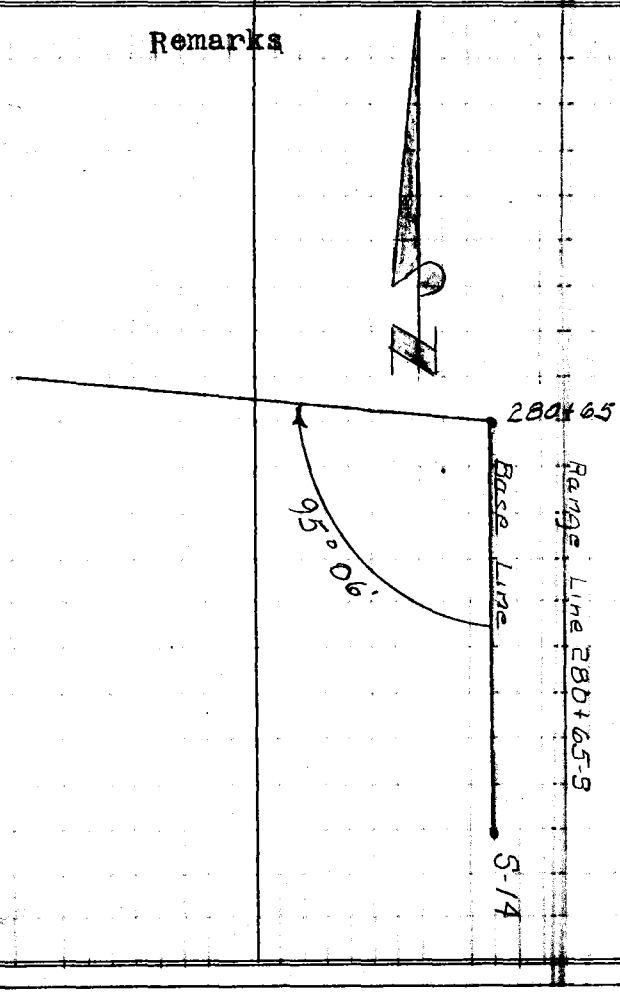
Profile Notes Red. Plotted Job No. 3282 Division No. 10 F. B. 1510 Pg. 55
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Dorn & J.E. Date 8-1-55
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:15	95° 06'	
	2			95° 06'	
	3			95° 06'	
	4			95° 06'	
	5			95° 06'	
	6			95° 06'	
	7			95° 06'	
	8			95° 06'	
	9			95° 06'	
	10			95° 06'	
	11			95° 06'	
	12			95° 06'	
	13			95° 06'	
	14			95° 06'	
	15			95° 06'	
	16			95° 06'	
	17			95° 06'	
	18			95° 06'	
	19			95° 06'	
	20			95° 06'	



S-14
280+65

76L298 307 8-53

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F. B. 1510 Pg. 56 Job No. 63002 Division No. 10 Notes Red. Date 8-1-55 Plotted Date No. Profile
Survey of Beach Blvd. Notes Notes Chkd. Checked Date No. X-Sec.
Survey by Van Deren Notes Date
Indexed K. C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		21			95° 06'	
		22			95° 06'	Range Line 280+65
		23			95° 06'	
		24			95° 06'	
		25			95° 06'	
		26			95° 06'	
		27			95° 06'	
280+65	5-19	28			95° 06'	
		29			95° 06'	
		30			95° 06'	
		31			95° 06'	
		32			95° 06'	
		33			95° 06'	
		34			95° 06'	
		35			95° 06'	
		36			95° 06'	
		37			95° 06'	
		38		8:25	95° 06'	

76L298 307 4-50

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Profile Notes Red. Plotted Job No 2722-2 L Division No. 12 F.B. 1512 Pg. 57
No. Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Dorn Date 8-11-55
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. At / Sight On	#	Color Time				Fathoms & Feet
	1	52.8 8.8 49.9	8:15	79° 22'	3385	Boat +1.0
	2	51.0 8.5 48.1		78° 32'	3190	Zero Adj 0.0
	3	50.4 8.4 47.5		77° 37'	3000	Tide -3.9
	4	49.8 8.3 46.9		77° 02'	2890	Net -2.9
	5	48.0 8.0 45.1		76° 15'	2753	280+65-S
	6	46.2 7.7 43.3 / 49.0? 46.1?		75° 32'	2640	S-14
	7	48.2 45.3		74° 59'	2555	Cut in 280+65-S
	8	46.7 43.8		74° 08'	2445	Angle This side
	9	45.8 42.9		73° 19'	2335	
	10	44.7 41.8		72° 36'	2252	
	11	43.6 40.7		71° 57'	2184	
	12	42.5 39.6		71° 02'	2085	
	13	40.4 37.5		70° 03'	1995	
	14	39.3 36.4		68° 41'	1870	
	15	37.7 34.8		67° 10'	1752	
	16	35.9 33.0		65° 38'	1650	
	17	34.3 31.4		63° 39'	1522	
	18	32.8 29.9		62° 03'	1430	
	19	31.9 29.0		60° 35'	1350	
	20	30.7 27.8		58° 40'	1260	

S-15
S-14

76L298 307 4-50

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F. B. 1570 Pg. 58 | Job No. 230.02 Division No. 10 Notes Red. Date 8-1-55 Plotted Date Checked Date | Profile No. X-Sec. No.

Survey of Beach Erosion Study
Survey by Lt. Dennis Notes N.F.
Index A. C. Johnson

STATION At	STATION On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	29.6	26.7		56° 50'	1191	Cut in 280+65-S
		22	28.5	25.6		54° 36'	1100	
		23	27.2	24.3		52° 10'	1010	
		24	25.8	22.9		49° 25'	920	
		25	24.8	21.9		46° 51'	846	
		26	24.2	21.3		43° 48'	763	
		27	22.7	19.8		40° 07'	671	
5-15	5-14	28	21.9	19.0		35° 55'	583	
		29	21.3	18.4		33° 35'	532	
		30	20.8	17.9		30° 41'	475	
		31	20.0	17.1		27° 37'	424	
		32	19.2	16.3		25° 25'	380	
		33	18.5	15.6		22° 10'	323	
		34	17.5	14.6		18° 50'	270	
		35	16.6	13.7		15° 40'	221	
		36	14.6	11.7		12° 35'	172	
		37	void			10° 05'	132	
		38	void		8:25	07° 25'	92	

76L298 307 10-51

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

Do not extend notes this side of this line. CUT IN 4

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
280+65	3 44	22 84		19 40		
276+65	0 0	20 1	2 74	20 10		
6' R			+04	20 5	T. rocks	
39' R			21 9	-1 8	B. "	

Inshore
276+65

Profile Notes Red Plotted Job No. 03000.07 Division No. 10 F.B. 1510 Pg. 59
No. Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Notes ED Date 8-1-65
No. Date Date Map No. Checked Job Data Date

F.B. 1510 PG. 60 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

78L298 307 10-81

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76L298 307 4-50

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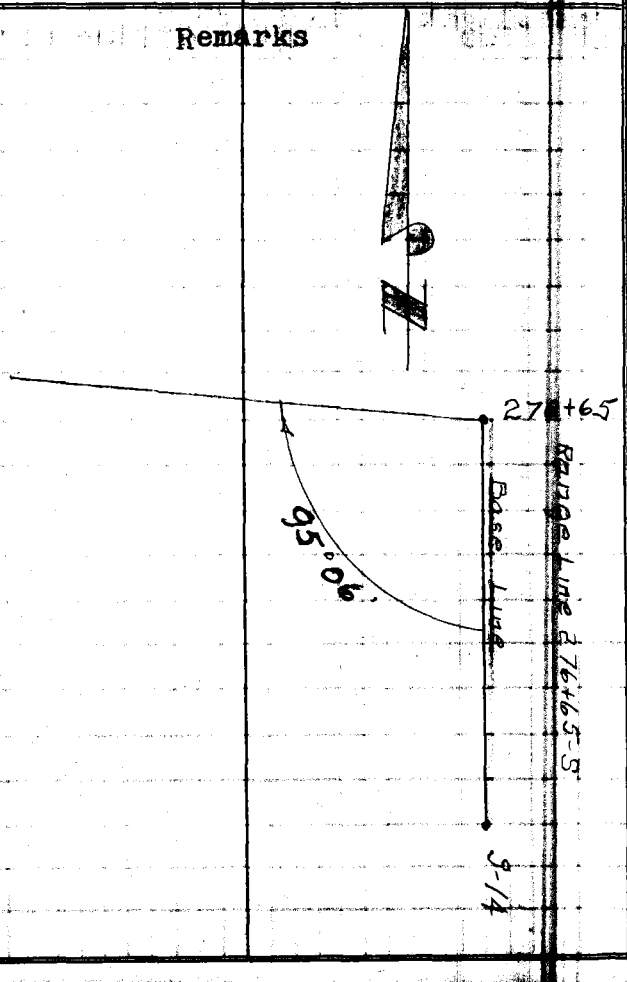
Profile Notes Red. ____ Plotted ____ Job No. 3282.02 Division No. 10 F. B. 1578 Pg. 61
No. ____ Date ____ Date ____ Surveyed Engineer
Y.Sec. Notes Chkd. ____ Checked ____ Survey Dept. 8-1-65
No. ____ Date ____ Date ____ Map No. ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
276+65	S-14					1		8:58	95°06'	
						2			95°06'	
						3			95°06'	
						4			95°06'	
						5			95°06'	
						6			95°06'	
						7			95°06'	
						8			95°06'	
						9			95°06'	
						10			95°06'	
						11			95°06'	
						12			95°06'	
						13			95°06'	
						14			95°06'	
						15			95°06'	
						16			95°06'	
						17			95°06'	
						18			95°06'	
						19			95°06'	
						20			95°06'	



76L298 307 4-50

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 62 | Job No. 23002 Division No. 10 | Notes Red. | Plotted | Profile
Survey of Beach Erosion | Date 8-1-52 | Date | No.
Survey by Van Dereer Notes V.J.E. | Notes Chkd. | Checked | X-Sec.
Indexed L.C. Johnson Date | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			95° 06'		
		22			95° 06'	Range Line 276+65-S	
		23			95° 06'		
		24			95° 06'		
		25			95° 06'		
		26			95° 06'		
		27			95° 06'		
276+65	5-14	28			95° 06'		
		29			95° 06'		
		30			95° 06'		
		31			95° 06'		
		32			95° 06'		
		33			95° 06'		
		34			95° 06'		
		35			95° 06'		
		36			95° 06'		
		37			95° 06'		
		38		9:06	95° 06'		

76L298 307 10-51

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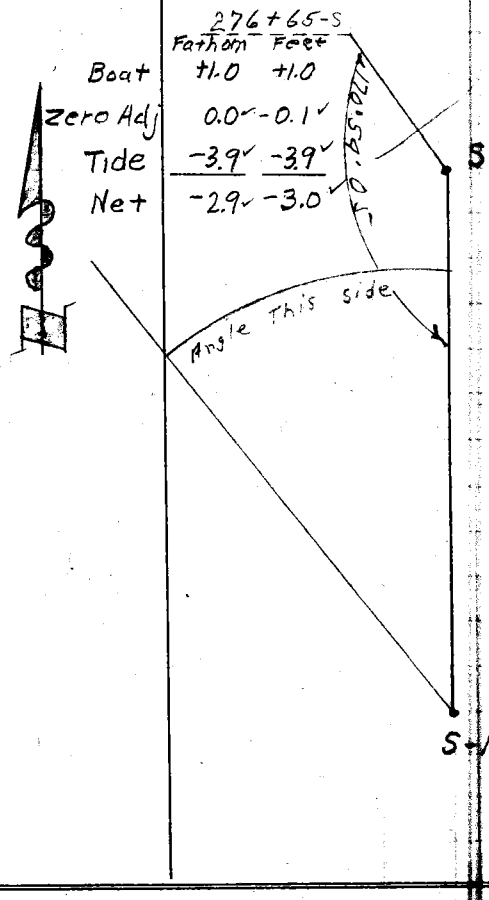
Profile Notes Red Plotted Job No. 2329.02 Division No. 12 F.B. 1570 Pg. 63
No. Date Survey of Beach Erosion Study
X-Sec. Date Survey by F.H. Blanchard R.E. Date 8-1-55
No. Notes Chkd Checked Map No. Tahoe Date
Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At On	#	Color	Time			
	1	48.0 8.0 45.1	8:58		71° 19'	3040
		47.4 7.9 44.5				
	2	50.5 47.5			70° 45'	2962
	3	50.5 47.5			70° 12'	2879
	4	49.0 46.0			69° 33'	2793
	5	47.5 44.5			68° 48'	2700
	6	46.4 43.4			68° 07'	2621
	7	45.4 42.4			67° 20'	2530
S-15 S-14	8	43.9 40.9			66° 30'	2445
	9	42.4 39.4			65° 17'	2320
	10	41.6 38.6			64° 39'	2256
	11	40.7 37.7			63° 25'	2149
	12	39.2 36.2			62° 20'	2061
	13	38.3 35.3			61° 18'	1980
	14	37.0 34.0			59° 45'	1865
	15	35.4 32.4			58° 05'	1760
	16	34.2 31.2			56° 55'	1680
	17	33.0 30.0			55° 12'	1581
	18	32.2 29.2			53° 13'	1476
	19	30.9 27.9			51° 17'	1378
	20	29.7 26.7			49° 14'	1283



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F.B. 1510 Pg. 69 | Profile | No. | X-Sec. | No.

Job No. 30002 Division No. 10 Notes Red. | Plotted
Survey of Beach Erosion Study | Date 8-1-55 | Date | Date
Survey by H. BLANCHARD Notes P.P. | Notes Chkd. | Checked
Indexed Van Deusen | Date | Date | Date
C. Johnson

STATION		B. S.	H. I.	F. S.	ELEV.			Remarks	
Inst. At	Sight On	#	Color	Time	Hor. Ang.				
		21	28.6 ✓ 25.6		47°	45'	1220 ✓	Cut in	276+65-S
		22	28.0 ✓ 25.0		43°	40'	1135 ✓		
		23	27.0 ✓ 24.0		43°	25'	1049 ✓		
		24	25.8 ✓ 22.8		40°	29'	943 ✓		
		25	24.9 ✓ 21.9		38°	09'	866 ✓		
		26	23.8 ✓ 20.8		35°	35'	787 ✓		
		27	22.4 ✓ 19.4		32°	45'	701 ✓		
		28	21.7 ✓ 18.7		30°	15'	629 ✓		
S-15	S-14	29	20.7 ✓ 17.7		27°	30'	557 ✓		
		30	20.4 ✓ 17.4		25°	16'	501 ✓		
		31	19.5 ✓ 16.5		22°	42'	439 ✓		
		32	18.1 ✓ 15.1		20°	00'	372 ✓		
		33	17.4 ✓ 14.4		17°	44'	320 ✓		
		34	16.3 ✓ 13.4		15°	50'	273 ✓		
		35	15.6 ✓ 12.6		14°	05'	235 ✓		
		36	14.2 ✓ 11.2		12°	02'	189 ✓		
		37	VOID ✓		10°	15'	147 ✓		
		38	VOID ✓	9:06	08°	30'	110 ✓		

76L298 307 10-51

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5/1 19

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT	SIGHT ON
276+65	2 98	23 08		20 10		
T.P.	6 9	28 2	1 80	21 28		
272+65	0 0	24 3	3 9	24 3		
1' R			0 0	24 3	T. rocks	
95' R			24 1	0 2	B. "	

Inshore

Profile Notes Red Plotted Job No. 8300.07 Division No. 10 F.B. 1510 Pg. 65
No. Date Survey of BEACH EROSION STUDIES
X-Sec. Date
Notes Chkd Checked Survey by ENGLISH Notes ED Date 8-1-35
No. Date Date Map No. Andy Johnson Date

F.B. 1510 Pg. 66 | Job No. 0300,02 | Division No. 10 | Notes Red | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

79L298 307 10-51

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76L298 307 4-50

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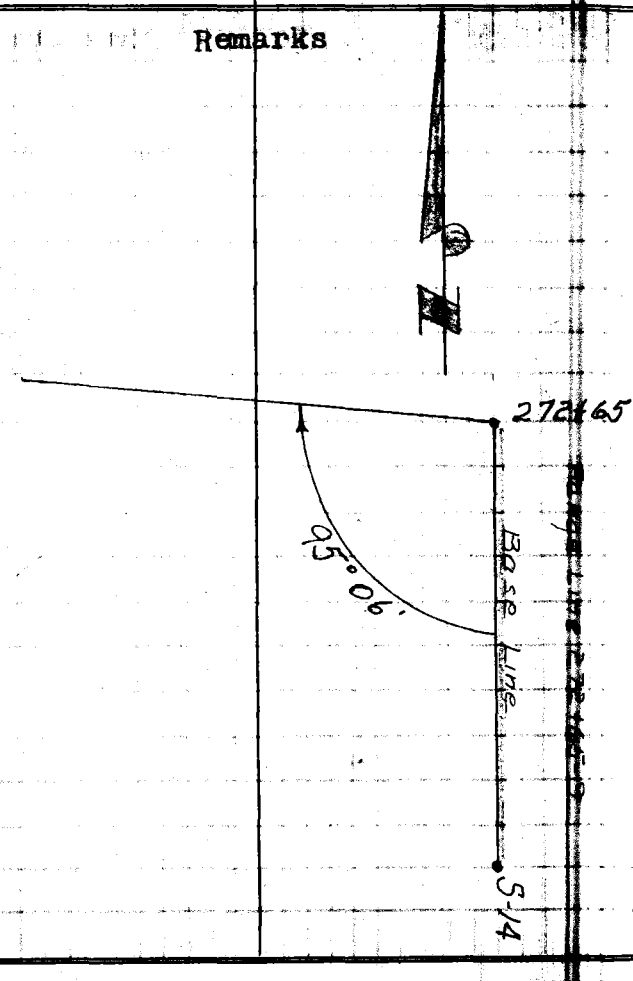
Profile Notes Red. Plotted Job No. 23002 Division No. 10 F. B. 1510 Pg. 67
No. Date. Date. Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Dorn & Olin Co. Date. 8-19-35
No. Date. Map No. Checked Date.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At OR	#	Color	Time	Hor. Ang.	Remarks
			9.38	95°06'		1				
				95°06'		2				
				95°06'		3				
				95°06'		4				
				95°06'		5				
				95°06'		6				
				95°06'		7				
				95°06'		8				27265
				95°06'		9				
				95°06'		10				
				95°06'		11				
				95°06'		12				
				95°06'		13				
				95°06'		14				
				95°06'		15				
				95°06'		16				
				95°06'		17				
				95°06'		18				
				95°06'		19				
				95°06'		20				



27265

S-14

76L298 307 4-50

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

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F. B. 1570 Pg. 65 Job No. 03002 Division No. 12 Notes Red. Date 8-
Survey of Beach Erosion Notes Chkd. Plotted Profile
Survey by Van Deren Notes 9.42 Date Checked X-Sec.
Indexed C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21		9.38	95°06'	Range	
	22			95°06'	272+65	
	23			95°06'		
	24			95°06'	5-14	
	25			95°06'		
	26			95°06'		
	27			95°06'		
	28			95°06'		
	29			95°06'		
	30			95°06'		
	31			95°06'		
	32			95°06'		
	33			95°06'		
	34		9.47	95°06'		
272+65 - 5'						
5-14						

76L298 307 10-51

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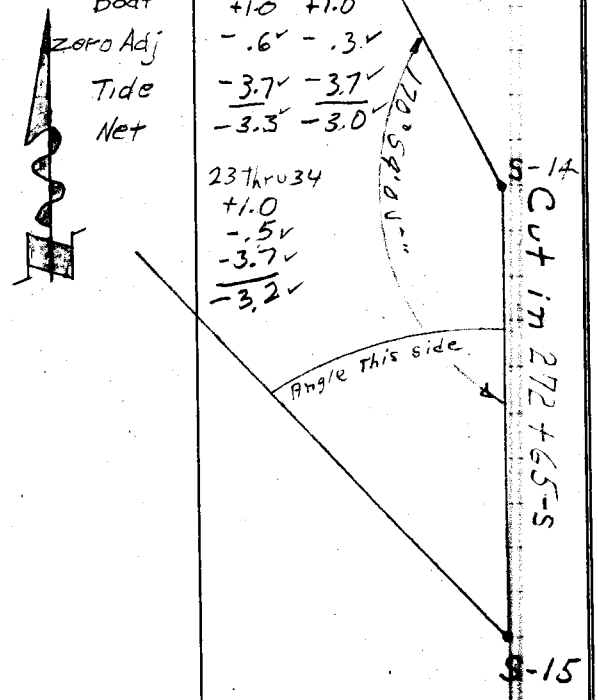
Profile Notes Red Plotted Job No. 30002 Division No. 02 F.B. 1576 Pg. 69
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd Checked Survey by Faith Dickenson (Mrs.) P.T. Date 5-14-57
No. Date Date Map No. Redrawn Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Sight On #	Color	Time	Hor. Ang.		Remarks	
	1	50.4 8.4 47.1	9:38	67° 05'	3254	
	2	49.8 8.3 46.5		66° 14'	3130	
	3	48.0 8.0 44.7		65° 10'	3000	
	4	46.2 7.7 42.9		63° 55'	2855	
	5	46.8 43.8		63° 16'	2830	
	6	46.9 43.9		62° 28'	2691	
	7	45.4 42.4		61° 23'	2577	
S-14	8	44.3 41.5		60° 46'	2515	
	9	43.2 40.2		59° 57'	2436	
	10	42.2 39.2		59° 00'	2350	
	11	41.1 38.1		57° 43'	2238	
	12	39.9 36.9		56° 48'	2167	
	13	38.8 35.8		55° 47'	2088	
	14	37.8 34.8		54° 35'	1996	
	15	36.9 33.9		52° 31'	1851	
	16	35.1 32.1		51° 18'	1773	
	17	34.1 31.1		49° 43'	1675	
	18	33.6 30.6		47° 50'	1568	
	19	32.4 29.4		45° 55'	1463	
	20	31.1 28.1		43° 51'	1357	
		29.6 26.6				



76L298 307 10-51

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F.B. 1570 Pg. 70 Job No 23002 Division No. 10 Notes Red Date 8-1-53 Plotted Date Checked Date
Survey of Beach Erosion Study Notes Chkd Date
Survey by Van Doren Notes Date
Indexed C. Johnson Date

Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
	21	28.4 25.4		41° 20'	1240	cut in 272+65-5
	22	27.3 24.3		39° 14'	1141	
	23	26.2 23.0		36° 49'	1041	
	24	25.0 21.8		34° 50'	922	
	25	23.8 20.6		31° 12'	821	
	26	22.1 18.9		29° 40'	698	
	27	20.8 17.6		24° 08'	577	
S-15 / S-14	28	19.6 16.4		21° 11'	481	
	29	18.0 14.8		18° 32'	400	
	30	16.5 13.3		15° 48'	314	
	31	14.6 11.4		13° 12'	238	
	32	13.6 10.4		11° 11'	174	
	33	12.1 8.9		09° 45'	135	
	34	void	9:47	08° 20'	92	

76L298 307 10-51

5.9

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S-13 264 + 76.16

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STATION	B. S.	H. I.	F. S.	ELEV.	INST. AT	SIGHT ON
T.P.	4 18	25 46		21 28		
268+65	0 0	21 6	3 87	21 59	T. rocks	
40' R			22 4	-0 8	B. "	

5.9 Inshore 268+65

Profile Notes Red____ Plotted____ Job No. 63002 Division No. 10 F.B. 1510 Pg. 71

No.____ Date____ Date____ Survey of Beach Erosion Studies

X-Sec. Notes Chkd____ Checked____ Survey by English Notes Ed Date 8-1-55

No.____ Date____ Date____ Map No.____ Traced Johnson Date____

F.B. 1510 PG. 72 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

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

78L298 307 10-51

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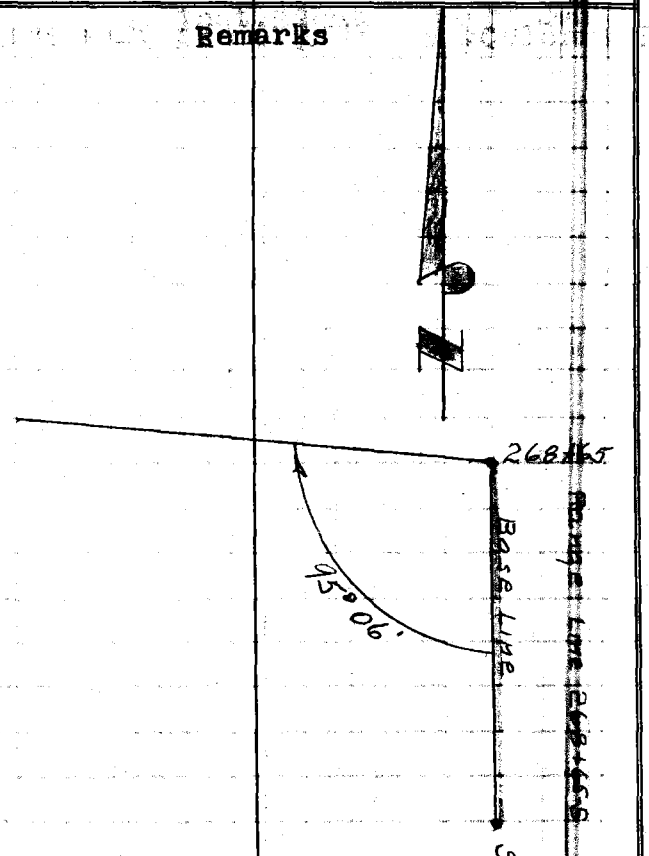
Profile Notes Red. Plotted Job No. 3302 Division No. 10 F. B. 1570 Pg. 73
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by 1917 Dredging Obs. J.L.E. Date 2-17-55
No. Date Date Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On		# Color	Time	Hor. Ang.
		1	10:11	95°06'
		2		95°06'
		3		95°06'
		4		95°06'
		5		95°06'
		6		95°06'
		7		95°06'
		8		95°06
2681+65	S-14	9		95°06'
		10		95°06'
		11		95°06'
		12		95°06'
		13		95°06'
		14		95°06'
		15		95°06'
		16		95°06'
		17		95°06'
		18		95°06'
		19		95°06'
		20		95°06'

Remarks



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F. B. 13710 Pg. 79 Job No. 3802 Division No. 12 Notes Red. Date 8-1-55 Plotted Date No. Profile
Survey of Beach Erosion Notes Date Checked Date No. X-Sec.
Survey by Van Doren Notes V.J.E. Notes Chkd. Date
Indexed C. Johnson Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		21			95° 06'		
		22			95° 06'		
		23			95° 06'		Range Line 268+65 S
		24			95° 06'		
		25			95° 06'		
		26			95° 06'		
268+65		27			95° 06'		
	5-14	28			95° 06'		
		29			95° 06'		
		30			95° 06'		
		31			95° 06'		
		32			95° 06'		
		33			95° 06'		
		34			95° 06'		
		35			95° 06'		
		36		10:19	95° 06'		

76L298 307 8-53

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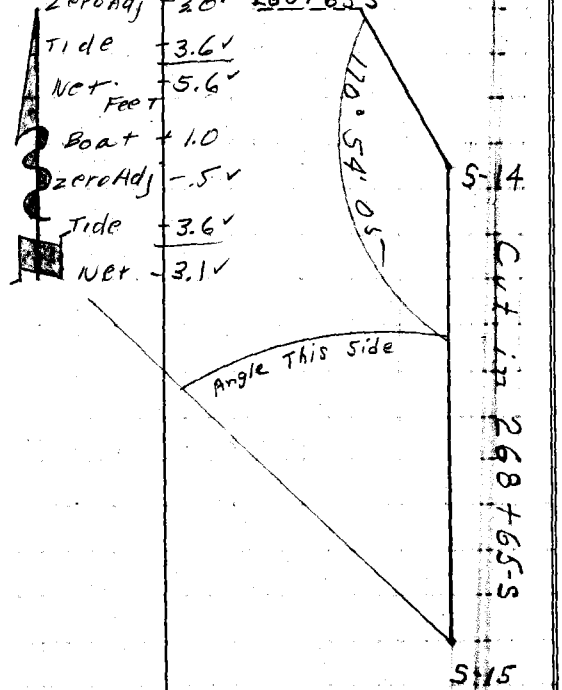
Profile Notes Red. Plotted Job No. 3204-2 Division No. 10 F.B. 1510 Pg. 75
No. Date Date Survey of Basis Engineering Study
X-Sec. Notes Chkd. Checked Survey by H. H. BLANCHARD Date 8-1-55
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
	1	49.8 8.3 44.2	10:11	61° 25'	3194 ✓	Fathoms
	2	48.6 8.1 43.0		60° 36'	3062 ✓	Boat +1.0
	3	47.4 7.9 41.8		59° 15'	2906 ✓	Zero Adj -.2 ✓
	4	46.2 7.7 40.6 / 45.1 42.0		58° 26'	2820 ✓	Tide -3.6 ✓
	5	44.8 41.7		57° 56'	2765 ✓	Net -5.6 ✓
	6	43.8 40.7		57° 05'	2678 ✓	Feet
	7	43.4 40.3		56° 18'	2602 ✓	Boat +1.0
	8	42.6 39.5		55° 26'	2521 ✓	Zero Adj -.5 ✓
	9	41.4 38.3		54° 37'	2445 ✓	Tide -3.6 ✓
	10	40.4 37.3		53° 47'	2372 ✓	Net -3.1 ✓
	11	38.8 35.7		52° 46'	2288 ✓	
	12	37.4 34.3		51° 25'	2177 ✓	
	13	35.8 32.7		49° 53'	2060 ✓	
	14	34.6 31.5		48° 32'	1962 ✓	
	15	33.6 30.5		47° 12'	1870 ✓	
	16	32.4 29.3		45° 51'	1780 ✓	
	17	31.7 28.6		44° 28'	1691 ✓	
	18	31.6 28.5		43° 00'	1602 ✓	
	19	30.0 26.9		41° 15'	1500 ✓	
	20	28.8 25.7		39° 48'	1420 ✓	



S-15
S-14

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F. B. 1310 Pg. 74 Job No 4300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-1-55 Date No. X-Sec.
Survey by: U.S. ENGINEER DEPT. Notes Chkd. Checked
Indexed by: C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		21	28.7 25.6		39° 40'	1305 ✓ Cut in 268+65-S
		22	27.2 24.1		34° 36'	1152 ✓
		23	25.2 22.1		33° 38'	1062 ✓
		24	24.5 21.4		30° 28'	958 ✓
		25	24.2 21.1		28° 44'	884
		26	23.1 20.0		26° 29'	787 ✓
		27	22.0 18.9		24° 14'	692 ✓
		28	21.4 18.3		22° 36'	626 ✓
S-15	S-14	29	20.1 17.0		20° 21'	535 ✓
		30	19.0 15.9		18° 21'	461 ✓
		31	17.4 14.3		16° 05'	375 ✓
		32	16.9 13.8		14° 31'	315 ✓
		33	15.4 12.3		12° 48'	252 ✓
		34	14.3 11.2		11° 15'	197 ✓
		35	12.9 9.8		09° 48'	142 ✓
		36	Void	10:19	08° 25'	92 ✓

76L298 307 10-51

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Do not extend notes this side of this line. CUT IN X

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
268+65	2 43	24 02		21 59		
264+65			8 57	15 45		
27' R			10 0	14 0	Bot. Rocks	
90' R			4 9	19 1	Top. "	
71' R			26 6	-2 6	Bot. "	

Inshore

Profile Notes Red Plotted Job No. 1300.02 Division No. 10 F.B. 1510 Pg. 77
No. Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd Checked Survey by English Notes Ed Date 8-1-55
No. Date Map No. Indexed Date 5-13 284+96.16

F.B. 1510 Pg. 78 Job No. 0300.02 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes E.E. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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76L298 307 4-50

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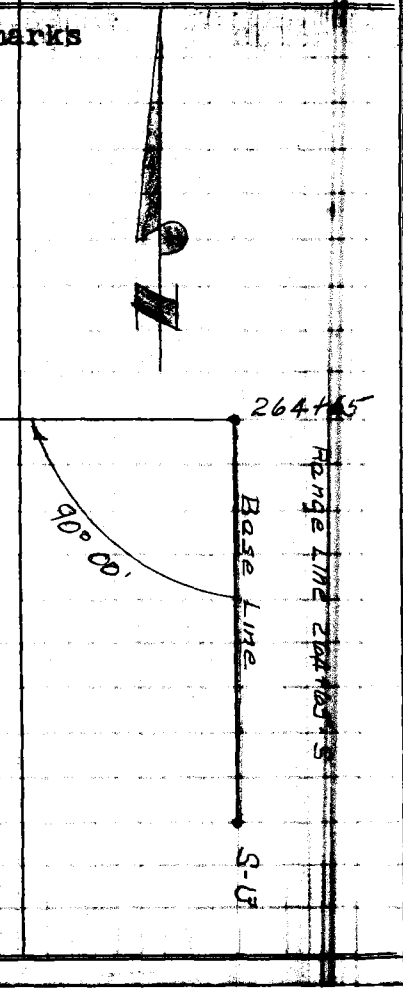
Profile Notes Red_____ Plotted_____ Job No. 3302 Division No. 10 F. B. 1570 Pg. 79
No._____ Date_____ Date_____ Survey of Beach Erosion
X-Sec. Notes Chkd._____ Checked_____ Survey by Wm. Dorsey, J. L. Johnson Date 8-1-55
No._____ Date_____ Date_____ Map No._____ Date_____

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On		# Color Time Hor. Ang.		
		1 10:42 90° 00'		
		2 90° 00'		
		3 90° 00'		
		4 90° 00'		
		5 90° 00'		
		6 90° 00'		
		7 90° 00'		
26465	S-13	8 90° 00'		
		9 90° 00'		
		10 90° 00'		
		11 90° 00'		
		12 90° 00'		
		13 90° 00'		
		14 90° 00'		
		15 90° 00'		
		16 90° 00'		
		17 90° 00'		
		18 90° 00'		
		19 90° 00'		
		20 90° 00'		



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F. B. 1510 Pg. 80 | Job No. 0300.02 Division No. 10 | Notes Red. | Date | Plotted | Date | Profile | No.
Survey of Beach Erosion | Notes | Date | Notes Chkd. | Date | Checked | Date | X-Sec. | No.
Survey by Vanderen & C. Johnson | Notes 1 & E | Date | Date
Indexed

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90° 00'		
		22			90° 00'	Range Line 264+65-S	
		23			90° 00'		
		24			90° 00'		
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
264+65	5-13	29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34		10:52	90° 00'		

76L298 307 8-53

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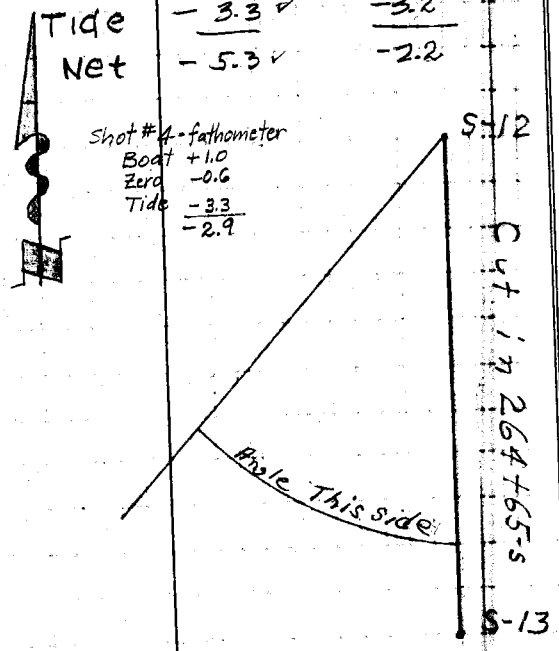
Profile Notes Red. Plotted Job No. 0360.02 Division No. 15 F.B. 1370
No. Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes P.L. Date 8-1-55
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	#	H. I. Color	F. S.	Time	ELEV.	Hor. Ang.	Remarks	Fathom Shots 1 & 2 & 3	Feet Remainder Shot 3
Inst. Sight At ON										
		1	47.4 7.9 42.1 ✓ ✓ ✓		10:42			Boat	+1.0	+1.0
		2	47.4 7.9 42.1 ✓ ✓ ✓			69° 32'	2947 ✓	Zero Adj	−3.0 ✓	0.0 ✓
		3	46.2 7.7 40.9 ✓ ✓ ✓			68° 58'	2861 ✓	Tide	−3.3 ✓	−3.2
		4	43.2 7.2 40.3 ✓ ✓ ✓ 44.1 ✓ 41.9			68° 27'	2785 ✓	Net	−5.3 ✓	−2.2
		5	43.5 ✓ 41.3			67° 52'	2704 ✓			
		6	42.5 ✓ 40.3			69° 16'	2625 ✓			
		7	41.4 ✓ 39.2			66° 29'	2528 ✓			
		8	40.3 ✓ 38.1			65° 51'	2453 ✓			
		9	39.0 ✓ 36.8			65° 00'	2359 ✓			
		10	37.5 ✓ 35.3			63° 58'	2252 ✓			
		11	35.8 ✓ 33.6			63° 05'	2167 ✓			
		12	33.8 ✓ 31.6			51° 61'	2056 ✓			
		13	31.8 ✓ 29.6			60° 33'	1948 ✓			
		14	30.0 ✓ 27.8			58° 40'	1807 ✓			
		15	30.0 ✓ 27.8			56° 46'	1679 ✓			
		16	29.2 ✓ 27.0			54° 45'	1556 ✓			
		17	28.7 ✓ 26.5			53° 24'	1481 ✓			
		18	27.6 ✓ 25.4			51° 42'	1393 ✓			
		19	26.5 ✓ 24.3			48° 26'	1240 ✓			
		20	25.5 ✓ 23.3			46° 25'	1156 ✓			

Shot #4 - fathometer
Boat +1.0
Zero −0.6
Tide −3.3
−2.9



S-12
S-13
30 ft. N. of Sea buoy

76L298 307 8-53

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F.B. 1570 Pg. 82 | Job No. 2342.02 Division No. 10 Notes Red. Date 8-1-55 Plotted Date Checked Date Profile No. X-Sec. No.

Survey of Beach Erosion Study
Survey by Van Dersen Notes R.F.
Indexed K. C. Johnson Notes Chkd. Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	24.4 ✓ 22.2		94° 12'	1070 ✓	Cut in 264+65-S
	22	23.6 ✓ 21.4		91° 37'	977 ✓	
	23	22.5 ✓ 20.3		35° 19'	869 ✓	
	24	21.5 ✓ 19.3		34° 34'	758 ✓	
	25	20.6 ✓ 18.4		32° 01'	688 ✓	
	26	18.7 ✓ 16.5		28° 50'	606 ✓	
	27	17.7 15.5		24° 11'	520 ✓	
	28	16.7 ✓ 14.5		22° 36'	458 ✓	
S-12 / S-13	29	15.4 ✓ 13.2		19° 35'	391 ✓	
	30	14.4 ✓ 12.2		16° 48'	332 ✓	
	31	13.3 ✓ 11.1		13° 44'	269 ✓	
	32	12.5 ✓ 10.3				
	33	12.2 ✓ 10.0				
	34	VOID ✓	10:52			

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT	SIGHT ON
269+65	6 02	21 47 ✓		15 45 ✓		
262+65			5 00	16 47 ✓		
109' R			12 5	9 0 ✓	Bot.	Rocks
127' R			6 8	14 7 ✓	Top	"
156' R			21 5	0 0 ✓	Bot.	"

In shore

S. 62°E

Profile Notes Red Plotted Job No. 2700 02 Division No. 10 F.B. 1510 Pg. 83
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes Ed Date 8-1-55
No. Date Date Map No. Traverse by J. Johnson Date

F.B. 1510 PG. 89 | Job No. 0700.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

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

Survey of Beach Erosion
W. O. Tape No. St'd. °F
Surveyed by Van Dereen
Notes J. J. E. Date 8-2-55
Indexed C. Johnson

F. B. 1510 Pg. 84 A

August 2, 1955

Standard Time

Time	Tide
5:00	0.9
5:30	1.4
6:00	2.1
6:30	2.6
7:00	3.0
7:30	3.4
8:00	3.7
8:30	3.9
9:00	4.0
9:30	3.8
10:00	3.7
10:30	3.5
11:00	3.3

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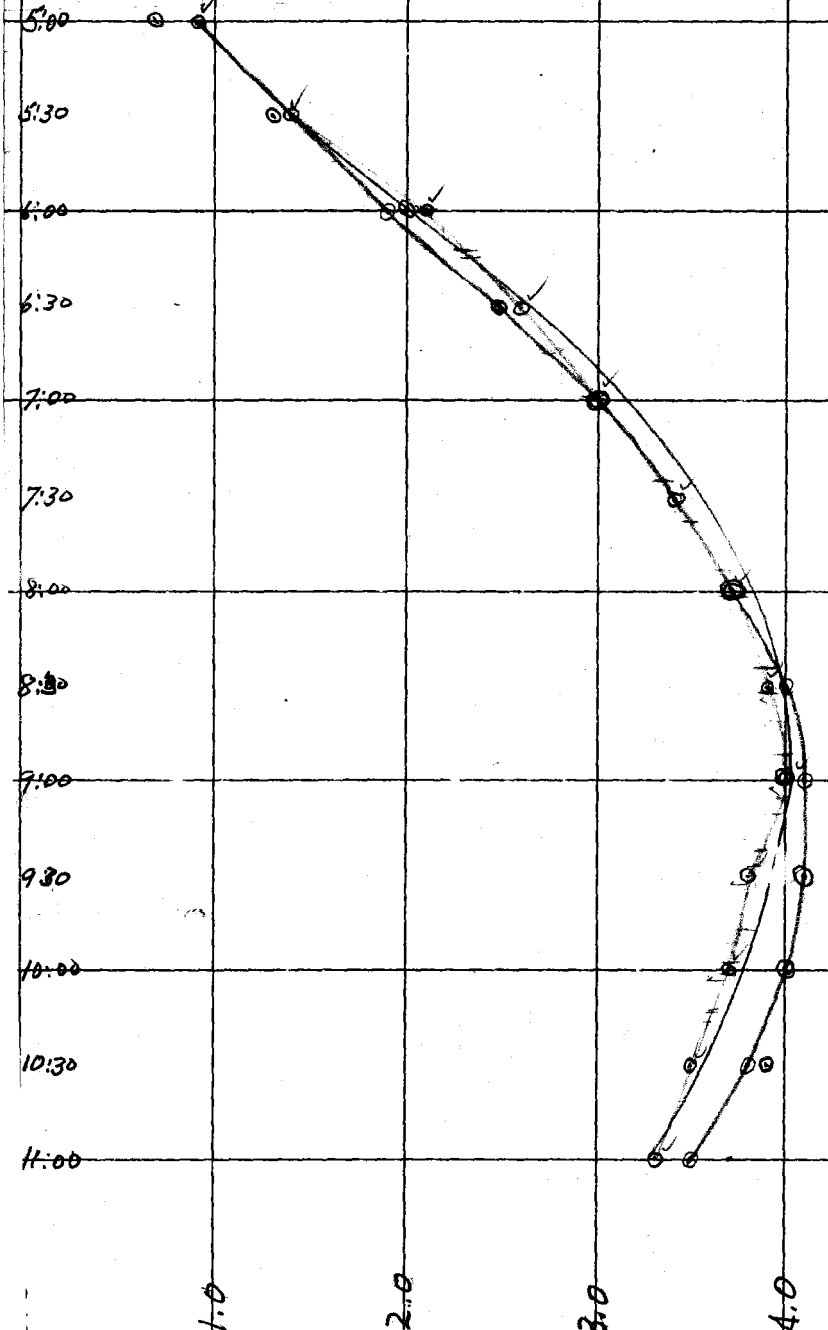
7575098 247 4-53

F. B. 1510 PG. 84B

Blue Curve from USC&GS Tide Tables



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764398 307 4-50

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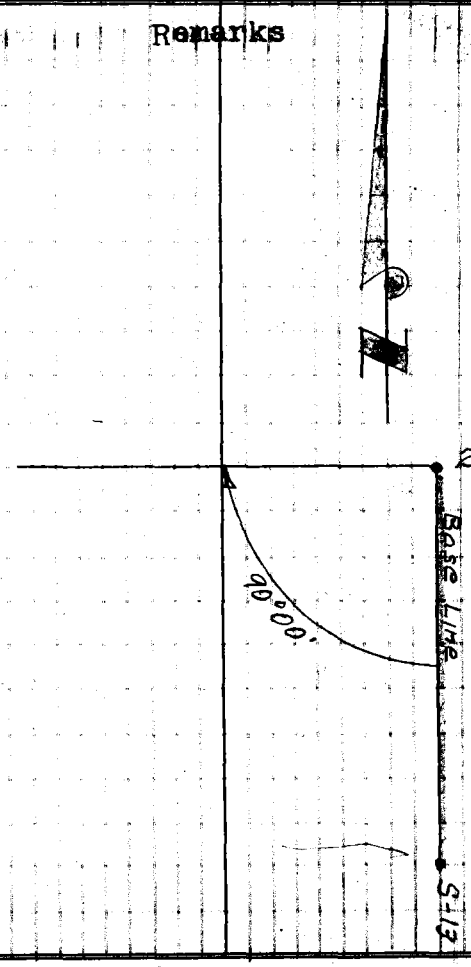
Profile Notes Red____ Plotted____ Job No. 3800 Division No. 12 F. B. 1510 Pg. 85
No.____ Date____ Date____ Survey of Topo Easement
X-Sec. Notes Chkd____ Checked____ Survey by Van Dereck Cressy & E Date 8-2-55
No.____ Date____ Date____ Map No.____ Checked Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On		# Color	Time	Hor. Ang.	
		1	6:00	90°00'	
		2		90° 00'	
		3		90° 00'	
		4		90° 00'	
		5		90° 00'	
		6		90° 00'	
		7		90° 00'	
		8		90° 00'	
262+65	S-13	9		90° 00'	
		10		90° 00'	
		11		90° 00'	
		12		90° 00'	
		13		90° 00'	
		14		90° 00'	
		15		90° 00'	
		16		90° 00'	
		17		90° 00'	
		18		90° 00'	
		19		90° 00'	
		20		90° 00'	



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F. B. 5110 Pg. 84 | Job No. 2300 V Division No. 10 Notes Red. Date Plotted Profile
Survey of Beach Erosion Date No.
Survey by Van Deren Notes J.J.E. Notes Chkd. Date Checked X-Sec.
Indexed K. C. Johnson Date Date No.

STATION		B.S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21			90° 00'		
		22			90° 00'		
		23			90° 00'	Range Line	262+65-S
		24			90° 00'	Out side Break water	
		25			90° 00'	Inside " "	
		26			90° 00'		
		27			90° 00'		
		28			90° 00'		
262+65	5-13	29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37			90° 00'		
		38			90° 00'		
		39			90° 00'		
		40			90° 00'		

76L398 307 4-50

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Profile Notes Red. Plotted Job No. 63007 Division No. 10 F. B. 1510 Pg. 87
No. Date Date Survey of Beach Erosion
X-Sec. Notes Ckkd. Checked Survey by Van Derer Notes 102 Date 2-2-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks	
		41		90° 00'		
		42		90° 00'		
		43		90° 00'	Range Line	262+65 - S
		44		90° 00'		
		45		90° 00'		
		46		90° 00'		
262+65	5-13	47		90° 00'		
		48		90° 00'		
		49	6:13	90° 00'		

F. B. 1510 Pg. 88 | Job No. 0300.07 Division No. 1.0 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Van Dercm Notes JJE. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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76L198 307 4-50

76L298 307 6-53

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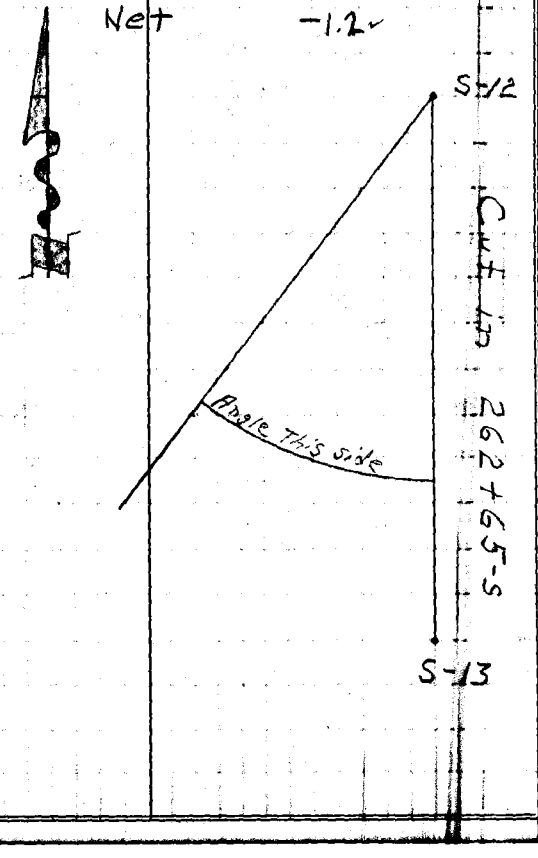
Profile No. X-Sec. No. Notes Rod Date Notes Chkd Date Plotted Date Checked Date Job No. 0300.2 Division No. 10 Survey of Beach Erosion Study Survey by Wm Dorenkotter Date 8-2-55 Map No. Johnson Date F. B. 1550 Pg. 89

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
S-12 / S-13	1	void	6:00	75° 54'	3583 ✓	Both fathom soundings and feet soundings
	2	49.2 8.2 48.0 ✓		75° 36'	3505 ✓	Boat +1.0
	3	48.9 ✓ 8.0 ✓ 46.8		75° 13'	3410 ✓	Zero Adj 0.0 ✓
	4	46.2 7.7 ✓ 45.0 / 46.2 ✓ 47.0		74° 58'	3351 ✓	Tide -2.2 ✓ -2.0 ✓
	5	47.7 ✓ 46.5		74° 24'	3223 ✓	Net -1.2 ✓
	6	47.1 ✓ 45.9		74° 00'	3139 ✓	
	7	46.2 ✓ 45.0		73° 40'	3071 ✓	
	8	45.2 ✓ 44.0		73° 16'	2994 ✓	
	9	44.2 ✓ 43.0		72° 53'	2922 ✓	
	10	43.2 ✓ 42.0		72° 28'	2849 ✓	
	11	42.4 ✓ 41.2		72° 00'	2770 ✓	
	12	41.2 ✓ 40.0		71° 29'	2687 ✓	
	13	40.5 ✓ 39.3		70° 56'	2604 ✓	
	14	39.1 ✓ 37.9		70° 18'	2514 ✓	
	15	37.8 ✓ 36.6		69° 33'	2414 ✓	
	16	36.6 ✓ 35.4		68° 56'	2336 ✓	
	17	35.0 ✓ 33.8		68° 05'	2237 ✓	
	18	33.1 ✓ 31.9		67° 22'	2159 ✓	
	19	31.7 ✓ 30.5		66° 40'	2086 ✓	
	20	29.9 ✓ 28.7		65° 47'	2001 ✓	



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F. B. 1570 Pg. 90 Job No. 23a.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-2-55 Date No.
Survey by Van Dorsten Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	# Color	Time	Hor. Ang.		
		21 28.1 26.9		64° 58'	1927 ✓	Cut in 262+65-S
		22 27.0 25.8		64° 22'	1876 ✓	
		23 void		63° 40'	1818 ✓	
		24 void out side edge of Breakwater		63° 18'	1789 ✓	
		25 void in side edge of Break Water		62° 66'	1700 ✓	
		26 void		61° 41'	1670 ✓	
S-12	S-13	27 void		60° 53'	1616 ✓	
		28 27.6 26.4		59° 02'	1500 ✓	
		29 27.3 26.1		57° 55'	1436 ✓	
		30 27.0 25.8		57° 33'	1415 ✓	
		31 26.5 25.3		56° 45'	1373 ✓	
		32 25.7 24.5		55° 12'	1295 ✓	
		33 24.4 23.2		53° 25'	1213 ✓	
		34 23.3 22.1		51° 32'	1133 ✓	
		35 22.3 21.1		49° 44'	1062 ✓	
		36 21.3 20.1		48° 00'	1000 ✓	
		37 20.4 19.2		45° 52'	928 ✓	
		38 19.6 18.4		44° 38'	873 ✓	
		39 17.9 16.7		41° 52'	807 ✓	
		40 16.5 15.3		39° 26'	741 ✓	

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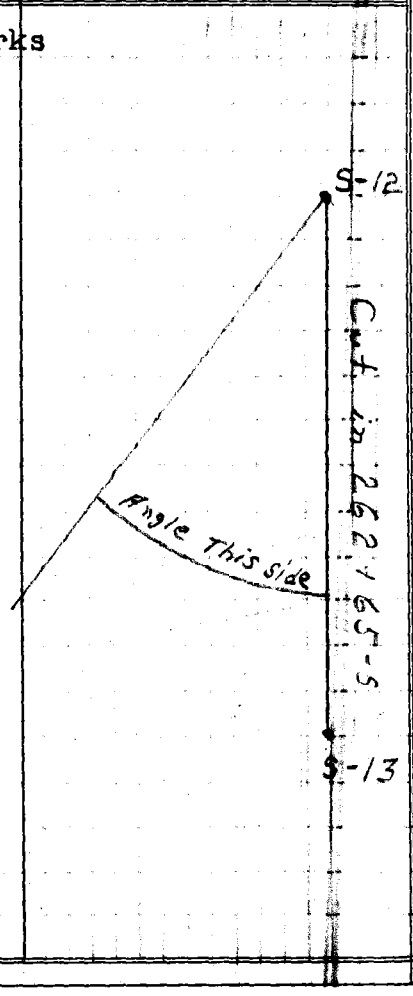
Profile Notes Red. Plotted Job No. 2700-22 Division No. 10 F. B. 1570 Pg. 91
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Leon Peterson R.T. Date 8-2-55
No. Date Date Map No. Traced Johnson Date

STATION	B. S.	H. I. #	Color		F. S.	ELEV.	Hor. Ang.	Remarks
Inst. At	Sight On							
		41	15.2	14.0		36° 57'	677	
		42	14.2	13.0		32° 58'	584	
		43	14.0	12.8		30° 34'	532	
		44	13.8	12.6		27° 50'	475	
		45	13.6	12.4		24° 12'	404	
		46	12.7	11.5		21° 05'	347	
		47	11.4	10.2		17° 40'	287	
		48	9.6	8.4		14° 35'	234	
S-12	S-13	49	7.0	5.8	6:13	11° 22'	181	



F. B. 1510 Pg. 92 | Job No. 0300.01 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-2-55 | Date | No.

Survey by [redacted] Notes D. T. | Notes Chkd. | Checked | X-Sec.

Indexed Van Deren | Date | Date | Date | No.

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

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 256+65		SIGHT ON 258+65	
262+65	5 29	21 76		16 97				
258+65	0 09	16 84	5 01	16 75				
5' R		16	1 2	15 6			Sand	
			1 5	15 3	15° 17'	55	"	
			3 5	13 3	33 52	134	"	
			3 1	13 7	46 21	210	"	
	2 71	8 05	11 50	5 34	54 17	278	"	
			6 9	1 6	57 28	314		
			11 7	-3 7	61 56	375		
			14 3	-6 3	65 31	439		
			17 5	-9 5	71 11	587		

Profile
No. Notes Red Plotted Job No 230052 Division No. 10 F.B. 1510 PG. 93
X-Sec. No. Date Date Survey of BEACH EROSION STUDIES
No. Notes Chkd. Checked Survey by EMIG/ISH Notes ED Date 8-2-55
Date Date Map No. Date

Inshore
5.
23+65

F.B. 1510 PG. 94 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by English Notes Ed. Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

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

78L298 307 10-51

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76L298 307 4-50

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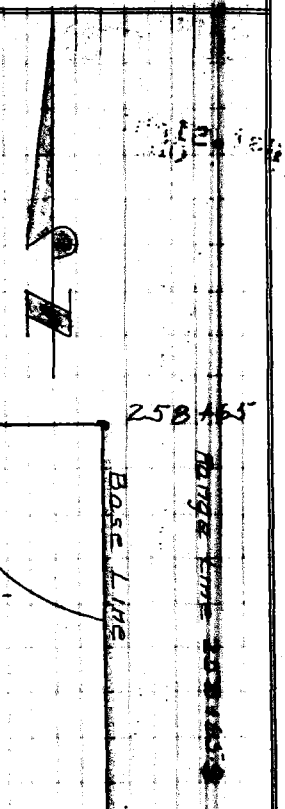
Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. Sta. Barrier No. 10
No.____ Date____ Date____ Survey of Van Deren Notes J.J.E. Date 8-2-55
X-Sec. Notes Chkd____ Checked____ Survey____ Date____
No.____ Date____ Map No.____ Date____

F. B. 1510 Pg. 95

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On		# Color Time Hor. Ang.		Remarks
		1	6:44	90° 00'
		2		90° 00'
		3		90° 00'
		4		90° 00'
		5		90° 00'
		6		90° 00'
		7		90° 00'
25B+65	S-13	8		90° 00'
		9		90° 00'
		10		90° 00'
		11		90° 00'
		12		90° 00'
		13		90° 00'
		14		90° 00'
		15		90° 00'
		16		90° 00'
		17		90° 00'
		18		90° 00'
		19		90° 00'
		20		90° 00' outside Breakwater



764.298 307 4-50

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

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F. B. 1590 Pg. 76 Job No. 830.02 Division No. 10 Notes Red. Date Plotted Profile
Survey of Beach Erosion Date Notes Chkd. Date No. X-Sec.
Survey by: Van Deren Notes V.L.E. Checked Date No.
Indexed by C. Johnson Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'	Inside Break Water	
	22			90° 00'		
	23			90° 00'	Range Line	258+65-S
	24			90° 00'		
	25			90° 00'		
S-258+65	26			90° 00'		
	27			90° 00'		
S-13	28			90° 00'		
	29			90° 00'		
	30			90° 00'		
	31			90° 00'		
	32			90° 00'		
	33			90° 00'		
	34			90° 00'		
	35			90° 00'		
	36			90° 00'		
	37			90° 00'		
	38			90° 00'		
	39			90° 00'		
	40			90° 00'		

76L298 307 4-50

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Do not extend notes this side of this line.

STATION At	Inst. Sight On	B. S.	H. I.	F. S.	ELEV.	Remarks
			# Color	Time	Hor. Ang.	
			41		90° 00'	
			42		90° 00'	Range Line 258+65
			43		90° 00'	
			44		90° 00'	
			45		90° 00'	
			46	6:59	90° 00'	
258+65	S-13					

Profile Notes Red. Plotted Job No. Power Division No. 10 F. B. 1570 Pg. 97
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Notes NLP Date 2-2-50
No. Date Date Map No. Traced Checked Date

F. B. 1510 Pg. 98 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

764.298 307 4-50

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76L298 307 8-53

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Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 2320-8 Division No. 10 F.B. 1370 Pg. 99
No. Date Date Survey of Breakwater Study
X-Sec. Notes Chkd. Checked Survey by Lee Brown, Ken Crosby, R.T. Date 8-2-55
No. Date Date Map No. Indexed Johnson Date

Fathms Feet

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	54.6 9.1 51.6	6:44	82° 33'	3824 ✓	Boat +1.0 +1.0
	2	53.4 8.9 50.4		82° 20'	3714 ✓	Zero Adj -.2 -.2
	3	V0,1		82° 05'	3596 ✓	Tide -2.8 -2.9
	4	V0,1		81° 33'	3366 ✓	Net -3.0 -2.1
	5	V0,1		81° 01'	3163 ✓	35 thru 46
	6	46.1 44.0		80° 43'	3059 ✓	+1.0
	7	45.2 43.1		80° 30'	2988 ✓	-.4
	8	44.3 42.2		80° 06'	2865 ✓	-2.9
	9	43.0 40.9		79° 42'	2751 ✓	-2.3
	10	41.2 39.1		79° 12'	2621 ✓	
	11	39.6 37.5		78° 45'	2514 ✓	
	12	38.3 36.2		78° 21'	2425 ✓	
	13	36.8 34.7		77° 48'	2313 ✓	
	14	34.3 32.2		77° 18'	2219 ✓	
	15	31.7 29.6		76° 40'	2110 ✓	
	16	29.3 27.2		76° 10'	2031 ✓	
	17	26.4 24.3		75° 24'	1920 ✓	
	18	24.5 22.4		74° 58'	1862 ✓	
	19	23.2 21.1		74° 40'	1824 ✓	
outside of Breakwater	20	22.4 20.4		74° 36'	1815 ✓	

S-12

S-13

Angle This Side

Cut in 2567-5

S-12

S-13

76L298 307 8-53

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F. B. 1570 Pg. 100 Job No 2300.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-2-55 No. X-Sec.
Survey by Van Dervanil Notes Chkd. Checked
Indexed R. C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
inside of breakwater	21	Color Inside Break water		73° 40'	1706 ✓	Cut in 25.8 + 6.5 - S
	22	15.0 ✓ 12.9		73° 30'	1635 ✓	
	23	14.5 ✓ 12.4		72° 30'	1586 ✓	
	24	12.3 ✓ 10.2		71° 20'	1527 ✓	
	25	13.1 11.0		71° 21'	1481 ✓	
	26	14.6 ✓ 12.5		70° 30'	1430 ✓	
	27	16.1 ✓ 14.0		70° 0'	1386 ✓	
S-12 S-13	28	17.1 ✓ 15.0		69° 30'	1337 ✓	
	29	17.7 ✓ 15.6		69° 14'	1285 ✓	
	30	18.2 ✓ 16.1		68° 31'	1218 ✓	
	31	18.2 ✓ 16.1		66° 50'	1168 ✓	
	32	17.6 ✓ 15.5		65° 35'	1101 ✓	
	33	16.8 ✓ 14.7		64° 12'	1034 ✓	
	34	15.5 ✓ 13.4		62° 45'	971 ✓	
	35	15.0 ✓ 12.7		61° 37'	906 ✓	
	36	14.4 ✓ 12.1		59° 41'	855 ✓	
	37	13.6 ✓ 11.3		57° 35'	787 ✓	
	38	13.4 ✓ 11.1		56° 14'	748 ✓	
	39	13.0 ✓ 10.7		54° 44'	707 ✓	
	40	11.9 ✓ 9.6		52° 04'	642 ✓	

76L298 307 8-53

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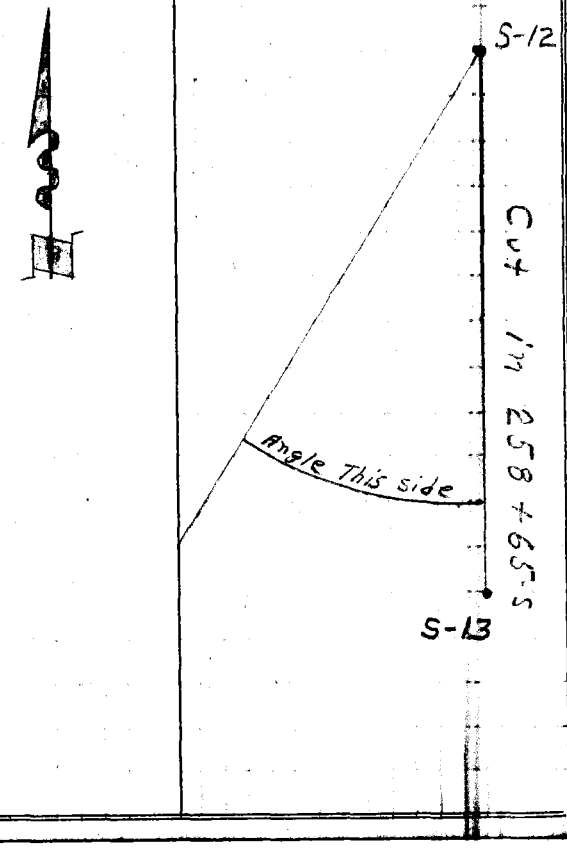
Profile Notes Red. Plotted Job No 23662 Division No. 10 F.B. 3720 Pg. 101
No. Date Date Survey of Beach Express Study
X-Sec. Notes Chkd. Checked Survey By [illegible] Date 8-2-55
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color -2.3	Time	Hor. Ang.		
	41	11.3 ✓ 9.0		49° 14'	580 ✓	
	42	11.0 ✓ 8.7		47° 17'	542 ✓	
	43	10.4 ✓ 8.1		45° 23'	507 ✓	
	44	9.6 ✓ 7.3		43° 25'	473 ✓	
	45	8.0 ✓ 5.7		40° 03'	420 ✓	
	46	6.8 ✓ 4.5	6:59	36° 52'	375 ✓	
S-12 / S-13						



F. B. 1510 Pg. 102 | Job No. 300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-2-55 | Date | No.

Survey by F. M. Duncan Notes R.T. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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76L298 307 8-53

76L298 307 10-51

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1704
088

17.92 — 1176 616

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Do not extend notes this side of this line. CUT IN 4

1704

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 256+65	SIGHT ON 254+65
258+65	4 96	21 71		16 75		
254+65	088	17 92	4 67	17 04		
5 FT RT			14	16 5	SAND, EDGE WALK	
47 " "			40	13 9		
100 " "			57	12 2		
200 " "			89	9 0		
300 " "			90	8 9		
400 " "			72	10 7		
458 " "			66	11 3	TOP BRK.	
484 " "			83	9 6		
500 " "			89	9 0	BRK.	
T.P. 532 "	2 19	8 35	1176	6 16		
		8 4	6 9	1 5	70° 19' 559	
			12 0	-3 6	73 30 675	
			13 4	-5 0	75 30 773	
			14 3	-5 9	77 29 901	
			15 0	-6 6	78 02 944	
			15 6	-7 2	78 55 1021	

Inshore
254+65

Profile Notes Red Plotted Job No. 03000.02 Division No. 10 F.B. 1570 Pg. 103
No. Date Date Survey of ENGINEERS Date 8-2-55
X-Sec. Notes Chkd. Checked Survey by Noted Date
No. Date Date Map No. Index Job Completed Date

F.B. 1510 PG. 109 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

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

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

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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74L398 3M7 4-50

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7th Floor, Los Angeles County Engineering Bldg.

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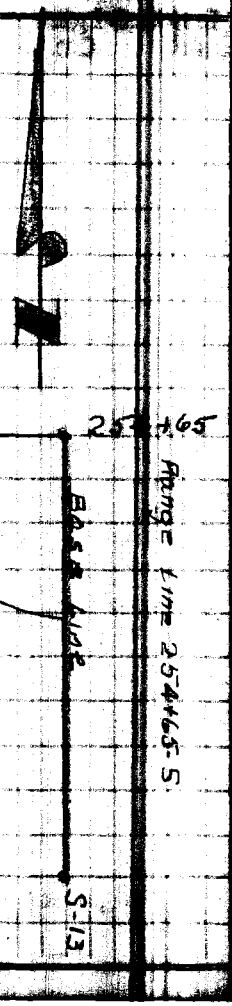
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
		1		7:25	90° 00'	
		2			90° 00'	
		3			90° 00'	
		4			90° 00'	
		5			90° 00'	
		6			90° 00'	
		7			90° 00'	
254+65	S-13	8			90° 00'	
		9			90° 00'	
		10			90° 00'	
		11			90° 00'	
		12			90° 00'	
		13			90° 00'	
		14			90° 00'	
		15			90° 00'	
		16			90° 00'	
		17			90° 00'	
		18			90° 00'	
		19			90° 00'	
		20			90° 00'	



Profile Notes Red_____ Plotted_____ Job No._____ F. B. 1578 Pg. 13
No._____ Date_____ Date_____ Survey of Beach Erosion
No._____ Date_____ Notes Chkd._____ Checked_____ Date_____ Map No._____ Indexed_____ Date_____

76L298 307 4-50

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Profile — Plotted — No. — X-Sec.
Division No. 10 — Notes Red. — Date — Date — No.
Job No. 22M02 — Notes Chkd. — Checked — Date
Survey of Beach Erosion — Notes — Date
Survey by Mt. Desert — Notes V.V.S. — Date
Indexed S. C. Johnson — Date

STATION At	STATION On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
		21			90° 00'		
		22			90° 00'		
		23			90° 00'	Outside Breakwater	
		24			90° 00'	Inside Breakwater } Range Line	254+65-S
		25			90° 00'		
		26			90° 00'		
		27			90° 00'		
254+65	S-13	28			90° 00'		
		29			90° 00'		
		30			90° 00'		
		31			90° 00'		
		32			90° 00'		
		33			90° 00'		
		34			90° 00'		
		35			90° 00'		
		36			90° 00'		
		37		7:38	90° 00'		

76L298 307 10-51

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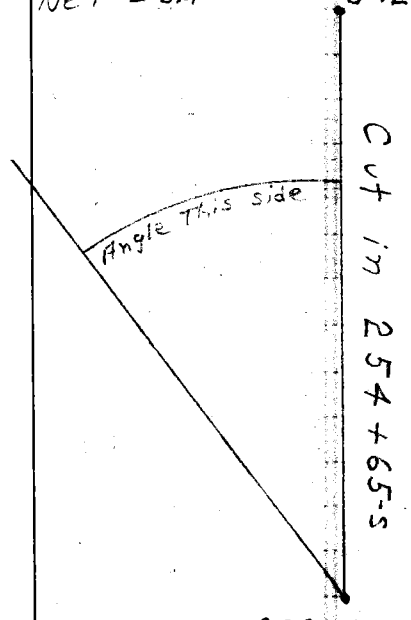
Do not extend notes this side of this line.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 230992 Division No. 12 F.B. 5510 Pg. 107
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Entrance Channel Date 8-2-55
Notes Chkd ____ Checked ____ Survey by Wm. Donnington R.E. Date ____
Date ____ Date ____ Map No. ____ Made by Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	1	55.8 9.3 50.4	7:25	78° 02'	3775	Fathoms Feet Boat +1.0 Boat +1.0 Zero Adj -3.0 Zero -0.4 Tide -3.4 Tide -3.2 Net -5.4 -2.6
	2	51.9 8.6 46.2		76° 57'	3451	
	3	49.8 8.3 44.4		76° 25'	3311	
	4	48.6 8.1 43.2		76° 03'	3221	
	5	47.4 7.9 42.0 46.7 43.9		75° 36'	3116	
	6	46.0 43.2		75° 10'	3021	
	7	44.8 42.0		74° 42'	2924	
	8	43.7 40.9		74° 15'	2837	
	9	42.6 39.8		73° 37'	2721	
	10	41.4 38.6		72° 57'	2609	
	11	39.9 37.1		72° 15'	2499	
	12	38.1 35.3		71° 29'	2389	
	13	36.6 33.8		70° 37'	2274	
	14	35.0 32.2		69° 53'	2184	
	15	33.6 31.0		69° 16'	2113	
	16	30.4 27.6		68° 21'	2015	
	17	28.5 25.7		67° 40'	1947	
	18	26.0 23.2		66° 53'	1874	
	19	23.3 20.5		65° 48'	1780	
	20	21.4 18.6		64° 51'	1704	



262+65 S-12

76L298 307 10-51

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ENGINEERING BLDG.

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F.B. 1510 PG. 108 Job No. 0300.02 Division No. 10 Notes Red Plotted
Survey of Beach Erosion Study Date Date 8-2-55 No. Profile
Survey by Van Dorn Notes R.T. Notes Chkd Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks	
Inst. Sight At / On	#	Color	Time	Hor. Ang.			
	21	19.1 16.3		65° 46'	1623 ✓	Cut in	254+65-S
	22	18.0 15.2		63° 13'	1585 ✓		
outside breakwater	23	17.0 outside 14.2	Breakwater	62° 28'	1535 ✓		
inside breakwater	24	5.8 inside 3.0	Breakwater	60° 19'	1403 ✓		
	25	6.1 3.3		59° 38'	1365 ✓		
	26	7.5 4.7		58° 16'	1294 ✓		
262+65-S	27	9.2 6.4		57° 34'	1235 ✓		
S-12	28	10.2 7.4		56° 4'	1189 ✓		
	29	10.5 7.7		54° 12'	1137 ✓		
	30	10.5 7.7		53° 10'	1068 ✓		
	31	10.0 7.2		51° 4'	1006 ✓		
	32	9.5 6.7		49° 37'	942 ✓		
	33	9.0 6.2		47° 45'	878 ✓		
	34	8.6 5.8		45° 52'	822 ✓		
	35	7.8 5.0		43° 36'	749 ✓		
	36	7.0 4.2		40° 47'	686 ✓		
	37	VOID	7:38	38° 05'	627 ✓		

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line. CUT IN ↓

1704
0837
1287
1106
0621

Profile Notes Red Platted Job No. 03 0010 Division No. 10 F.B. 1510 Pg. 109
No. Date Date Survey of ENGLISH BAY & RUSSIA STREETS
X-Sec. Notes Chkd Checked Survey By [illegible] Noted Job Notes EDGE Date 8-2-55
No. Date Date Map No. Noted Date 5-12 2537+65.13

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 247+50	SIGHT ON 253+10
254+65	1 18	18 22		17 04		
S-12	2 05	19 09	1 13	17 ~~09~~ 04	S-12 FB 2100 –	161
253+10			2 08	17 01	ON WALK	
6 FT R.			24.	16 7	SAND AT EDGE WALK	
37 FT R.			12	~~18.9~~		
100 " "			18	17 3		
200 " "			57	13 4		
260 " "			73	11 8		
300 " "			77	11 4		
337 " "			72	11 9	BRK	
390 " "			83	10 8	"	
400 " "			83	10 8		
500 " "			86	10 5		
556 " "	0 90	7 69	1230	6 79	T.P.	
			4 6	~~3.1~~	47° 33' 612	
			6 2	~~0.5~~ 1.5	49 48 663	
			7 8	~~+~~ -0.1	52 23 727	
			10 2	~~-2.5~~	56 31 847	
			13 3	~~-5.6~~	60 23 985	
			151	~~-8.4~~ -7.4	62 49 1090	

INSHORE
2537+10

F.B. 1510 PG. 110 Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by English & Ogler Notes Ed. & G.D. Notes Chkd _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

76L288 307 10-51

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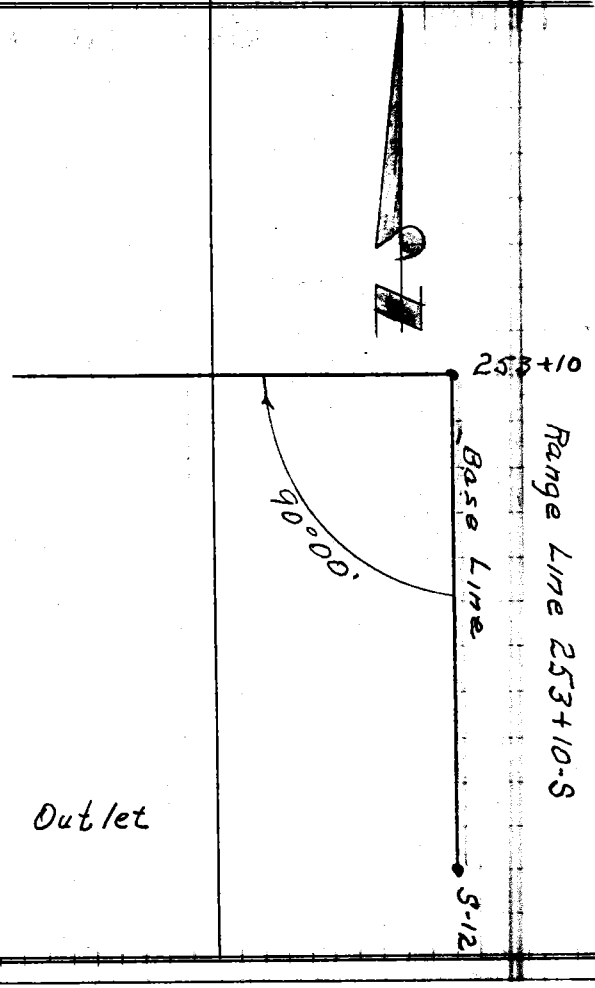
Profile Notes Red Plotted Job No. 330 Division No. 10 F.B. 1570 Pg. 111
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd Checked Survey by Van Dorn & Nichols Date 8-2-55
No. Date Date Map No. Notes: G. Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst At.	Sight On	#		Time	Hor. Ang.	
		1		7:53	90° 00'	
		2			90° 00'	
		3			90° 00'	
		4			90° 00'	
		5			90° 00'	
		6			90° 00'	
		7			90° 00'	
253+10	S-12	8			90° 00'	
		9			90° 00'	
		10			90° 00'	
		11			90° 00'	
		12			90° 00'	
		13			90° 00'	
		14			90° 00'	
		15			90° 00'	
		16			90° 00'	
		17			90° 00'	Edison Outlet
		18			90° 00'	
		19			90° 00'	
		20			90° 00'	



76L298 307 10-51

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F.B. 1509 Pg. 112 Job No. 83002 Division No. 10 Notes Red. Date Notes Chkd Date Plotted Date Checked Date Profile No. X-Sec. No.

Survey of Beach Erosion

Survey by Walt Deren Notes C. Johnson Date

Indexed

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'		
	22			90° 00'		
	23			90° 00'	Range Line	253+10 - 5
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
	27			90° 00'		
253+10 / 5-12	28			90° 00'		
	29			90° 00'		
	30			90° 00'		
	31			90° 00'		
	32			90° 00'		
	33			90° 00'		
	34		8:02	90° 00'		

76L298 307 10-51

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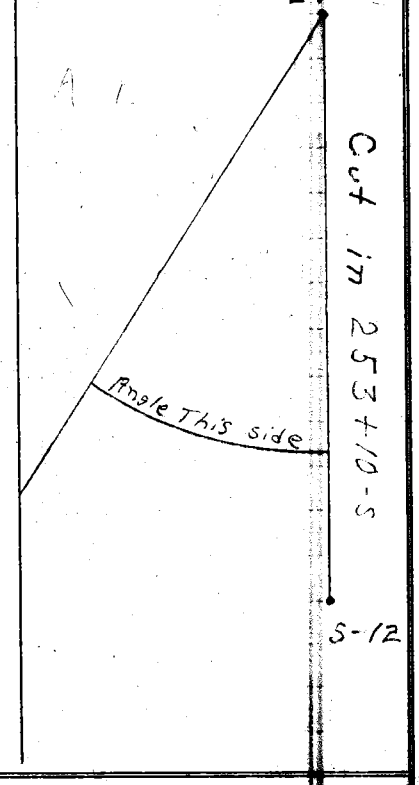
Do not extend notes this side of this line.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 63002 Z Division No. 10 F.B. 7510 Pg. 113
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd ____ Date ____ Checked ____ Survey By T.A.S. Drawn R.T. Date 8-2-55
Map No. ____ Date ____ Traced ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
Last Sight At 240+00 S-12	#	Color	Time	Hor. Ang.		Remarks
	1	51.0 8.5 47.1	7:53	70° 07'	3622	
	2	50.4 8.4 46.5		69° 34'	3516	
	3	48.6 8.1 44.7		68° 50'	3383	
	4	47.4 7.9 43.5		68° 12'	3275	
	5	46.8 7.8 42.9 / 47.3 44.4		67° 23'	3144	
	6	46.5 43.6		66° 54'	3071	
	7	44.9 42.0		66° 00'	2942	
	8	43.6 40.7		65° 12'	2835	
	9	42.2 39.3		64° 17'	2720	
	10	40.7 37.8		63° 27'	2610	
	11	39.8 36.9		62° 35'	2522	
	12	38.5 35.6		61° 33'	2418	
	13	37.2 34.3		60° 19'	2298	
	14	36.2 33.3		59° 23'	2214	
	15	34.7 31.8		58° 26'	2132	
	16	33.2 30.3		57° 19'	2042	
	17	Edison outlet 31.4 28.5		56° 28'	1977	
	18	28.7 25.8		54° 45'	1854	
	19	27.4 24.5		53° 36'	1777	
	20	25.2 22.3		52° 34'	1711	

	Fathoms	Feet
Boat	+1.0	+1.0
Zero Adj	-1.2	-1.2
Tide	-3.7	-3.7
Net	-3.9	+2.9



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Do not extend notes this side of this line.

F.B. 1510 Pg. 14 Job No. 230-42 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-2-55 Date
Survey by Van Deren Notes R.T. Notes Chkd Checked
Index C. Johnson Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
240+00-S / 5-12	21	21.9 ✓ 19.0		50° 52'	1610 ✓	Cut in 253+10-S
	22	19.7 16.8		49° 35'	1547 ✓	
	23	18.3 ✓ 15.4		48° 9'	1463 ✓	
	24	16.8 ✓ 13.9		46° 52'	1402 ✓	
	25	15.3 ✓ 12.4		45° 18'	1324 ✓	
	26	13.7 ✓ 10.8		43° 35'	1247 ✓	
	27	12.5 ✓ 9.6		41° 40'	1166 ✓	
	28	11.0 ✓ 8.1		39° 48'	1085 ✓	
	29	10.4 ✓ 7.5		38° 33'	1044 ✓	
	30	8.8 ✓ 5.9		36° 12'	971 ✓	
	31	8.0 ✓ 5.1		35° 33'	930 ✓	
	32	7.0 ✓ 4.1		34° 3'	885 ✓	
	33	VOID ✓		31° 8'	818 ✓	
	34	VOID ✓	8:02	29° 51'	752 ✓	

76L298 307 10-51

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Do not extend notes this side of this line. CUT IN X

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 247+50	SIGHT ON 250+00
253 +10	2 08	19 09 ✓		17 01 ✓		
250 + 00	1 80	19 09	1 80	17 29 ✓		
6 FT R.			12	17.9 ✓	SAND AT EDGE OF WALK	
35 " "			09	18 2 ✓	TOP BRK	
100 " "			33	~~16.8~~ 15.8 ✓		
200 " "			67	12 4 ✓		
300 " "			69	12 2 ✓		
327 " "			63	12 8 ✓	TOP BRK	
400 " "			76	11 5 ✓		
T.P. 470 " "	0 68	7 62 ✓	12 15	6 94 ✓	T.P.	
			3 9	3 7 ✓	69° 57' 535 ✓	
			6 5	1 1 ✓	67 22 600 ✓	
			9 6	-2 0 ✓	72 10 777 ✓	
			13 7	-6 1 ✓	74 23 894 ✓	
			17 0	-9 4 ✓	75 43 982 ✓	

Inshore
S. 250+00

Profile
No. _____ Notes Red _____ Plotted _____ Job No. 03002 Division No. 12 F.B. 1510 Pg. 113
X-Sec. _____ Date _____ Date _____ Survey of BEACH FRONT STUDY
No. _____ Notes Chkd. _____ Checked _____ Survey by ENGLISH Notes ED Date 8-2-55
Date _____ Date _____ Map No. _____ Map Co. Johnson Date _____

F.B. 1510 PG. 116 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

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

Survey by English & Dreier | Notes Ed. & G.O. | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

761.298 307 10-51

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76L298 307 4-50

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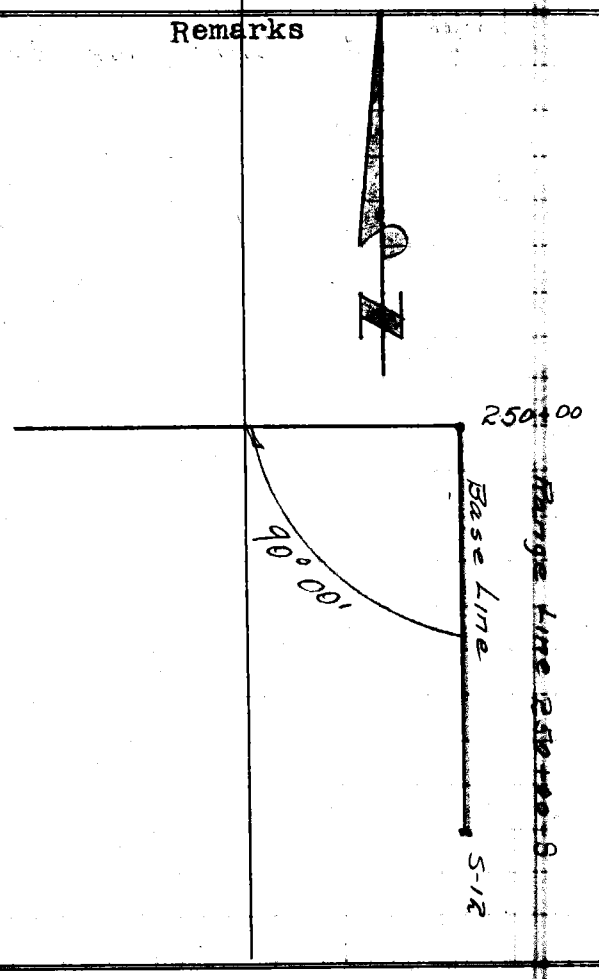
Profile Notes Red. ____ Plotted ____ Job No. 2300-12 Division No. 12 F. B. K/10 Pg. 117
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Dorn Notes J.J.E. Date 8-2-55
No. ____ Date ____ Date ____ Map No. ____ Inked J. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On		# Color	Time	Hor. Ang.
		1	8:24	90° 00'
		2		90° 00'
		3		90° 00'
		4		90° 00'
		5		90° 00'
		6		90° 00'
		7		90° 00'
		8		90° 00'
		9		90° 00'
		10		90° 00'
		11		90° 00'
		12		90° 00'
		13		90° 00'
		14		90° 00'
		15		90° 00'
		16		90° 00'
		17		90° 00'
		18		90° 00'
		19		90° 00'
		20		90° 00'

Remarks



Range Line 12 Station 0

S-12

250+00

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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F. B. 1510 Pg. 118 Job No. 3300V Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No. X-Sec.
Survey by Van Deren Notes J.V.E. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At. | Sight on	#	Color	Time	Hor. Angle		
	21			90° 00'		
	22			90° 00'		
	23			90° 00'	Range Line 250+00-S	
	24			90° 00'		
	25			90° 00'		
	26		8:31	90° 00'		
250+00 | S-12						

76L298 307 10-51

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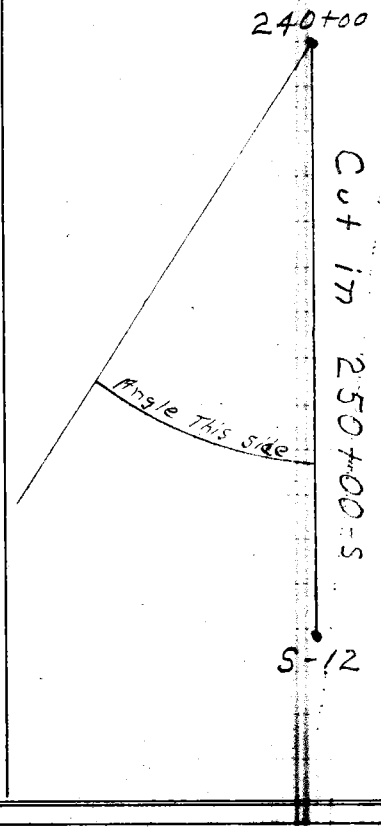
Profile No. ____ Plotted ____ Job No. 8700.02 Division No. 10 F.B. 1510 Pg. 119
Notes Red ____ Date ____ Date ____ Survey of Beach Erosion study
X-Sec. ____ Notes Chkd ____ Checked ____ Survey by Main Docketing & T.C. Date 8-2-55
No. ____ Date ____ Date ____ Map No. ____ Anx. G. Johnson Date ____

Inst. Sight At	On	B. S.	#	H. I. Color		F. S.	Time	Hor. Ang.	ELEV.		Remarks
											Fathoms / Feet Boat +1.0 / +1.8 Zero Adj. -1.2 ✓ / -2.2 ✓ Tide -3.9 ✓ / -3.9 ✓ -4.0 Net -4.1 ✓ / -3.3 ✓
			1	51.9	46.9		8:24	73° 37'	3401	✓	
			2	49.2	45.1			72° 53'	3247	✓	
			3	47.4	43.3			72° 22'	3146	✓	
			4	46.2 / 46.3	7.7 / 43.0	42.1		71° 46'	3036	✓	
			5	45.5		42.2		71° 20'	2960	✓	
			6	43.3		40.0		70° 21'	2801	✓	
			7	42.0		38.7		69° 20'	2651	✓	
			8	40.8		37.5		68° 33'	2545	✓	
			9	39.6		36.3		67° 41'	2436	✓	
			10	38.1		34.8		66° 32'	2304	✓	
			11	36.7		33.4		65° 15'	2166	✓	
			12	35.6		32.3		64° 30'	2097	✓	
			13	34.2		30.9		63° 24'	1997	✓	
			14	32.3		29.0		62° 28'	1891	✓	
			15	28.8		25.5		59° 50'	1720	✓	
			16	25.8		22.5		57° 41'	1588	✓	
			17	22.9		19.6		55° 34'	1459	✓	
			18	20.5		17.2		53° 40'	1360	✓	
			19	18.1		14.8		51° 22'	1251	✓	
			20	15.5		12.2		48° 37'	1135	✓	

240+00 - S-12



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F.B. 1570 PG. 120 Job No. 21021 Division No. Beach Erosion Study

Survey of Beach Erosion Study Notes Red 1-2-35 Plotted

Survey by T. M. Byers R. T. Van Gorder Notes Chkd Date Checked

Indexed E. C. Johnson Date Date

Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color / Time		Hor. Ang.	Remarks	
	21	13.3 / 10.0		45° 17'	1042	Cut in 250+00-S
	22	11.3 / 8.0		43° 36'	936	
	23	9.7 / 6.4		41° 36'	872	
	24	7.7 / 4.4		38° 17'	785	
	25	5.9 / 2.6		36° 20'	735	
	26	4.9 / 1.6	8:31	34° 35'	692	
240+00-S						
S-12						

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Do not extend notes this side of this line. CUT IN A

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 247+50	SIGHT ON 245+00
250 +00						
T. P. 470 FT. R.	10 64	17 58		6 94		
T. P.	5 22	20 80	2 00	15 58		
245+00			3 61	17 19	ON WALK	
6 FT. R.			3 4	17 4	SAND ON OUTSIDE OF WALL	
100 " "			3 9	16 9		
130 " "			4 8	16 0	BRK.	
200 " "			8 7	12 1		
230 " "			9 3	11 5	LOW	
281 " "			8 2	12 6	TOP BRK	
300 " "			8 7	12 1		
355 " "			10 0	10 8	TOP BRK.	
T.P. 374 " "	1 22	9 87	12 15	8 65	T.P.	
		9	5 6	4 3	59° 44' 428 ✓	
			8 3	1 6	62 34 482 ✓	
			11 1	-1 2	66 38 579 ✓	
			13 4	-3 5	69 59 686 ✓	
			16 0	-6 1	72 16 782 ✓	

INSHORE
S. 245+00

Profile
Notes Red
No. Date Plotted
X-Sec. Date Survey of BEACH EROSION STUDIES
Notes Cksd. Checked Survey by SMITH BREIER Noted ER 6-6-55 Date 8-8-55
No. Date Date Map No. Inked C. Johnson

Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 121

F.B. 1510 PG. 22 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by English & Drege | Notes Ed., & G.D. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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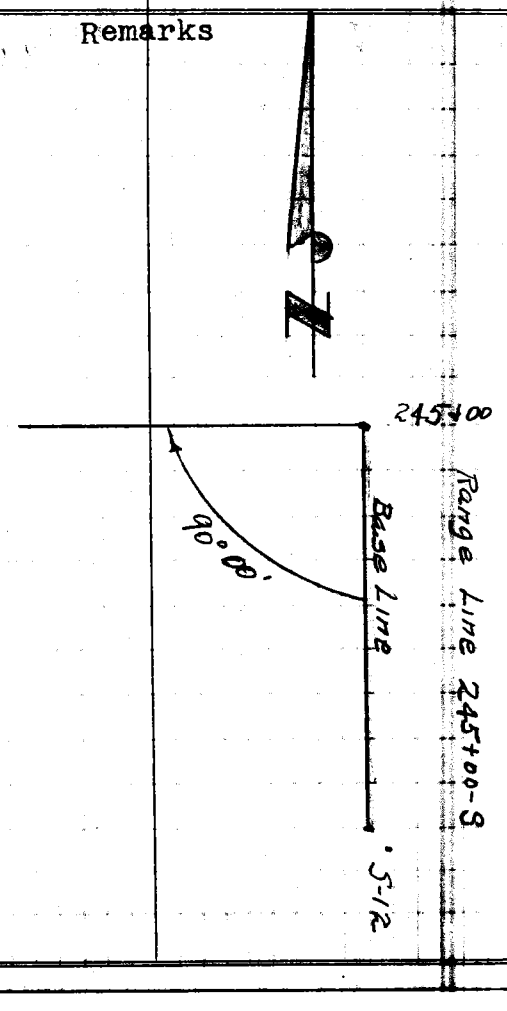
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 2330.01 Division No 10 F. B. 1570 Pg. 123
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd Checked Survey by Kaldenberg Notes J.N.E. Date 8-2-51
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight					
At On		# Color	Time	Hor. Ang.	Remarks
		1	8:44	90°00'	
		2		90° 00'	
		3		90° 00'	
		4		90° 00'	
		5		90° 00'	
		6		90° 00'	
		7		90° 00'	
245+00		8		90° 00'	
	S-12	9		90° 00'	
		10		90° 00'	
		11		90° 00'	
		12		90° 00'	
		13		90° 00'	
		14		90° 00'	
		15		90° 00'	
		16		90° 00'	
		17		90° 00'	
		18		90° 00'	
		19		90° 00'	
		20		90° 00'	



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Do not extend notes this side of this line.

F. B. 1510 Pg. 129 | Job No. 2000.2 Division No. 2 Notes Red. Date Notes Chkd. Date Profile Plotted Date Checked Date
Survey of Beach Erosion Notes J.S.E. No. X-Sec. No.
Survey by Van Dorn Notes C. Johnson Date
Indexed

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At.	Sight on	#		Time	Hor. Angle		
		21			90° 00'		
		22			90° 00'		
		23			90° 00'	Range Line	245+00-S
		24		8:51	90° 00'		
245+00	S-12						

76L298 307 10-51

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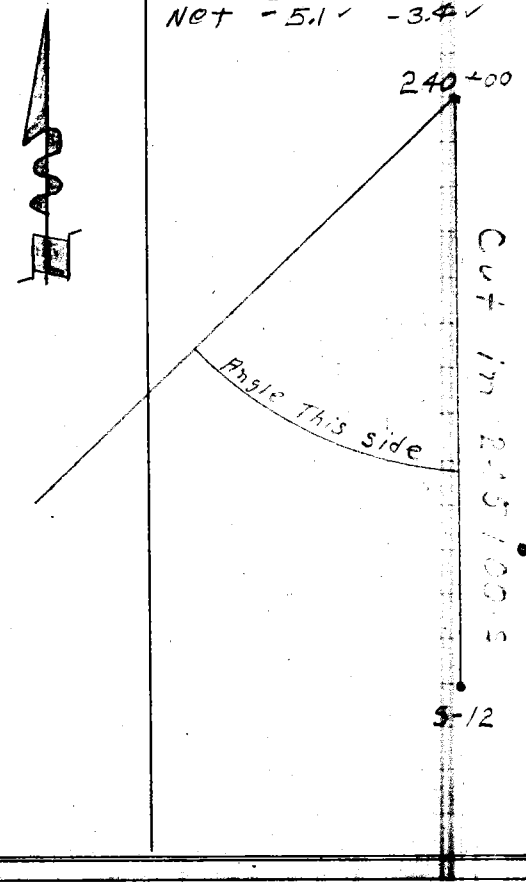
Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. 2302.02 Division No. 10 F.B. 15710 Pg. 125
No. Date Date Survey of Reese Expressway Study
X-Sec. Notes Chkd Checked Survey Fairbanks, Morse & Co. Date 8-2-55
No. Date Date Map No. Checked P.T. Date
Checked G. Johnson Date

At 240+00 on 5-12

STATION Sight	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
						Fathoms Feet
						Boat +1.0 +1.0
						Zero Adj -2.1 -.4 ✓
						Tide -4.0 ✓ -4.0 ✓ -4.1 ✓
						Net -5.1 ✓ -3.4 ✓
	1	49.8 8.3 44.7	8:44	81° 19'	3274 ✓	
	2	46.8 7.8 41.7		80° 46'	3076 ✓	
	3	44.9 ✓ 41.5		80° 10'	2885 ✓	
	4	44.0 ✓ 40.6		79° 48'	2779 ✓	
	5	42.0 ✓ 38.6		79° 19'	2650 ✓	
	6	40.4 ✓ 37.0		79° 07'	2601 ✓	
	7	39.3 ✓ 35.9		78° 26'	2443 ✓	
	8	37.9 ✓ 34.5		77° 53'	2329 ✓	
	9	36.0 ✓ 32.6		76° 57'	2157 ✓	
	10	34.7 ✓ 31.3		76° 20'	2056 ✓	
	11	32.9 ✓ 29.5		75° 06'	1879 ✓	
	12	31.0 ✓ 27.6		74° 15'	1773 ✓	
	13	30.0 ✓ 26.6		73° 29'	1686 ✓	
	14	28.2 ✓ 24.8		72° 00'	1539 ✓	
	15	26.4 ✓ 23.0		71° 00'	1452 ✓	
	16	24.8 ✓ 21.4		69° 33'	1341 ✓	
	17	23.1 ✓ 19.7		67° 43'	1220 ✓	
	18	21.1 17.7		65° 47'	1112 ✓	
	19	18.1 ✓ 14.7		63° 31'	1004 ✓	
	20	14.4 ✓ 11.0		60° 43'	892 ✓	



76L298 307 10-51

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

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

Do not extend notes this side of this line.

F.B. 1510 Pg. 126 Job No 230042 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-2-55 Date No. Profile
Survey by H.D. Bareis, P.I. Notes Checked Date No. X-Sec.
Indexed E. Johnson Date Notes Chkd. Date

STATION At	Inst. Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.	Remarks	
240+00	S-12	21	11.2 ✓	7.8		57° 32'	786 ✓	Cut in 245+00-S
		22	9.4 ✓	6.0		53° 1'	723 ✓	
		23	7.7 ✓	4.3		55° 15'	670 ✓	
		24	6.0 ✓	2.6	8:51	51° 13'	622 ✓	

76L298 307 10-51

PLEASE RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN 4

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 245+00	SIGHT ON 240+00
245+00						
T.P. 374 FT.R.	9 93	18 58		8 65		
T.P. 1	2 50	18 98	2 10	16 48		
240+00			2 00	16 98	ON WALK	
6 FT R.			1 8	17 2	SAND OUT SIDE WALL	
48 " "			1 3	17 7		
100 " "			3 2	15 8		
162 " "			6 1	12 9		
200 " "			6 5	12 5		
234 " "			7 5	11 5		
300 " "			6 9	12 1	TOP BRK	
T.P. 341 " "	0 54	7 60	11 92	7 06	T.P.	
		7 6	4 9	2 7	38° 22' 396	
			7 3	0 3	42 47 463	
			120	-4 4	50 56 616	
			17 5	-9 9	57 23 781	

INSHORE
S 270+00

Profile Notes Red Plotted Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 127
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGR Noted ED ENGER Date 8-2-55
No. Date Date Map No. Map Ck. Job record Date

F.B. 1510 PG. 128 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

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

Survey by E.F.E. & G.D. | Notes Ed. & G.D. | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

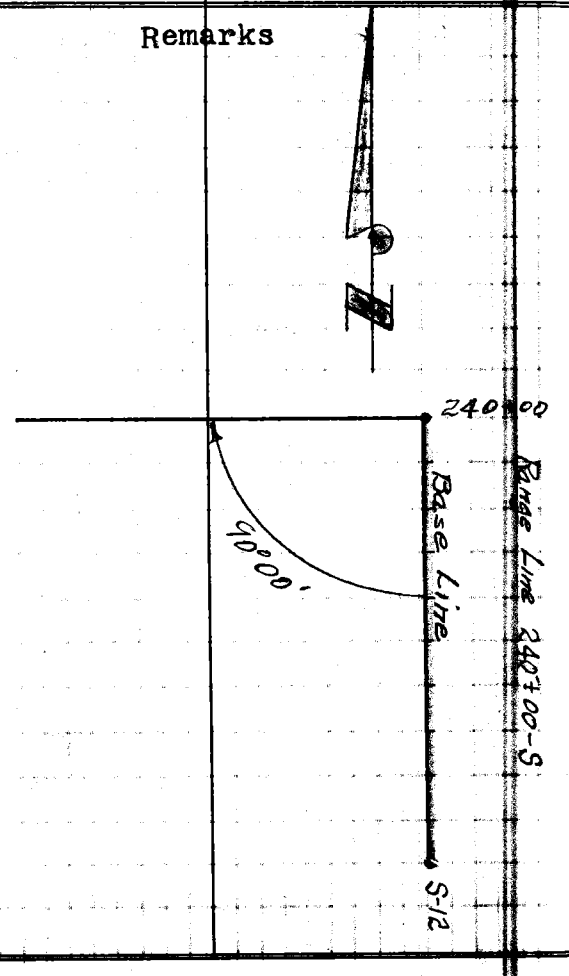
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 230007 Division No. 10 F. B. 1570 Pg. 129
No.____ Date____ Date____ Survey of Beach Erosion Date 8-2-57
T. Sec. Notes Chkd.____ Checked____ Survey by Hamilton Notes M. C. Johnson Date
No.____ Date____ Date____ Map No.____ Date

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On		# Color	Time	Hor. Ang.
		1	9:05	90° 00'
		2		90° 00'
		3		90° 00'
		4		90° 00'
		5		90° 00'
		6		90° 00'
		7		90° 00'
240 +00		8		90° 00'
S-12		9		90° 00'
		10		90° 00'
		11		90° 00'
		12		90° 00'
		13		90° 00'
		14		90° 00'
		15		90° 00'
		16		90° 00'
		17		90° 00'
		18		90° 00'
		19		90° 00'
		20		90° 00'

Remarks



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 130 | Job No. 23000 Y Division No. 10 Notes Red. Date Notes Chkd. Date | Profile Plotted Date Checked Date | No. X-Sec. No.

Survey of Beach Erosion

Survey by Van Deren Notes

Indexed C. Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst At	Sight on	#		Time	Hor. Angle		
		21			90° 00'		
		22			90° 00'		
		23		9:10	90° 00'	Range Line	240+00-S
240+00	S-12						

76L298 307 8-53

PLEASE RETURN TO
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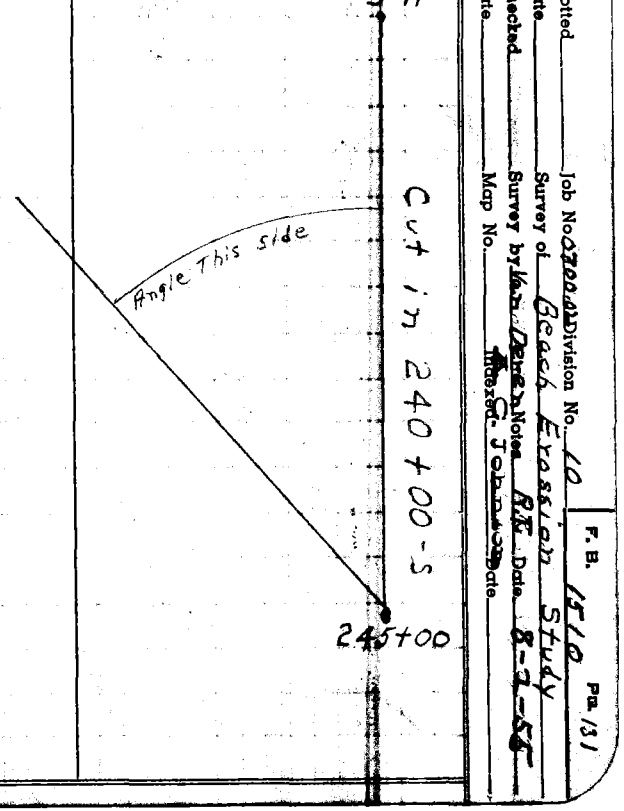
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 3700.00 Division No. 10 F. B. 1510 Pg. 131
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Survey by Wm. Dana Notes RT Date 8-2-55
No. Date Date Map No. Traced J. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	1	36.2 32.7	9:05	77° 06'	2183	Boat +1.0
	2	35.0 31.5		76° 12'	2036	Zero Adj -.5
	3	33.7 30.2		75° 33'	1940	Tide -4.0 -4.1
	4	32.5 29.0		74° 39'	1821	Net -3.5
	5	30.7 27.2		73° 28'	1684	
	6	29.8 26.3		72° 45'	1610	
	7	28.5 25.0		71° 57'	1534	
	8	27.2 23.7		70° 51'	1440	
	9	25.7 22.2		69° 18'	1323	
	10	23.8 20.3		67° 35'	1212	
	11	21.6 18.1		65° 42'	1107	
	12	20.3 16.8		63° 55'	1021	
	13	18.8 15.3		62° 31'	961	
	14	17.6 14.1		61° 25'	918	
	15	16.2 12.7		60° 01'	867	
	16	14.5 11.0		58° 59'	832	
	17	13.4 9.9		57° 38'	789	
	18	11.7 8.2		56° 24'	753	
	19	10.2 7.7		55° 17'	722	
	20	9.4 5.9		53° 29'	675	



S-11
245+00

76L298 307 6-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1110 Pg. 132 Job No 8230.01 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-1-55 Date No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	8.2 4.7		51° 33'	630 ✓	Cut in 240+00-S
	22	void		49° 32'	586 ✓	
	23	void	9:10	46° 24'	525 ✓	
245+00						
S-11						

76L298 307 10-51

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

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

Do not extend notes this side of this line. CUT IN X

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 240+00	SIGHT ON 235+00
240+00						
T.P. 341 FT R.	11 15	18 21		7 06		
T.P.	643	19 50	5 14	13 07		
235+00			2 70	16 80	ON CONC. WALK	
35 FT. R.			27	16 8	ON SAND OUTSIDE OF BLOCK WALL	
93 " "			3 6	15 9	BRK	
100 " "			3 9	15 6		
168 " "			7 8	11 7	LOW	
200 " "			8 0	11 5		
238 " "			7 0	12 5	BRK	
261 " "			7 5	12 0	"	
300 " "			11 3	8 2		
T.P. 306 " "	1 12	8 70	11 92	7 58	T.P.	
			5 3	3 4	35° 13'	353
			7 3	1 4	39 12	408
			9 6	-0 9	43 05	468
			11 3	-2 6	46 52	534
			13 5	-4 8	51 23	626
			15 6	-6 9	54 19	696

Inshore
S 235+00

Profile
Notes Red _____ Plotted _____ Job No. 0300.07 Division No. 12 F.B. 1510 PG. 133
No. _____ Date _____ Survey of ENGINEERING STUDIES
X-Sec. _____ Date _____ Survey By _____ Notes ED. d CEP. Date 8-2-55
Notes Chkd _____ Checked _____ Survey _____ Index C. Johnson Date _____
No. _____ Date _____ Map No. _____

F.B. 1510 PG. 134 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by EE, & G.D. | Notes Ed. & G.D. | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L398 307 4-50

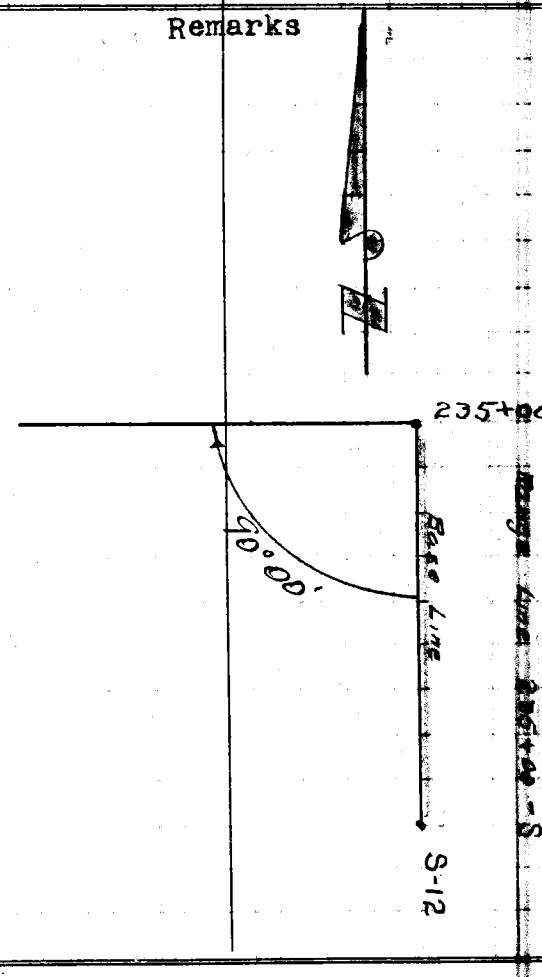
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 23000 Division No. 10 F. B. 1570 Pg. 135
No. Date Date Survey of Beach Erosion Notes Date
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes Date
No. Date Date Map No. Interp. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On # Color Time Hor. Ang.	Remarks
	1		9-22	90° 00'		
	2			90° 00'		
	3			90° 00'		
	4			90° 00'		
	5			90° 00'		
	6			90° 00'		
	7			90° 00'		
235+00	8			90° 00'		
	9	S-12		90° 00'		
	10			90° 00'		
	11			90° 00'		
	12			90° 00'		
	13			90° 00'		
	14			90° 00'		
	15			90° 00'		
	16			90° 00'		
	17			90° 00'		
	18			90° 00'		
	19			90° 00'		
	20			90° 00'		



76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 136 | Job No. 0340 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Date No. X-Sec.
Survey by Van Deren Notes Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At.	Sight on	#		Time	Hor. Angle		
		21			90° 00'		
		22			90° 00'		
		23			90° 00'	Range Line	235+00-S
		24			90° 00'		
		25		9-27	90° 00'		
235+00	S-12						

76L298 307 8-53

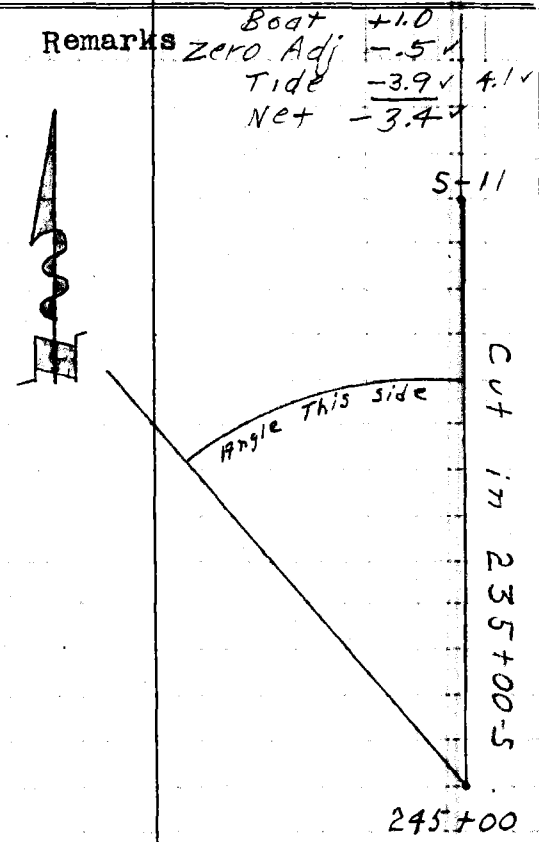
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 2380.02 Division No. 10 F. B. 1510 Pg. 137
No. Date. Date. Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey By F.T. Van Deren & C. Johnson Date 8-2-55
No. Date. Date. Map No. Indexed

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At 245+00	Sight On S-11	# Color	Time	Hor. Ang.		Boat +1.0 Zero Adj -.5 Tide -3.9 ✓ 4.1 ✓ Net -3.4 ✓
		1 35.2 ✓ 31.8	9:22	63° 45'	2028 ✓	
		2 34.4 ✓ 31.0		62° 55'	1956 ✓	
		3 33.1 ✓ 29.7		61° 47'	1864 ✓	
		4 32.2 ✓ 28.8		59° 59'	1731 ✓	
		5 31.2 ✓ 27.8		58° 24'	1625 ✓	
		6 30.2 ✓ 26.8		56° 19'	1500 ✓	
		7 28.7 ✓ 25.3		55° 45'	1469 ✓	
		8 27.3 ✓ 23.9		54° 03'	1379 ✓	
		9 26.4 ✓ 23.0		52° 28'	1302 ✓	
		10 25.0 ✓ 21.6		50° 48'	1226 ✓	
		11 22.6 ✓ 19.2		48° 32'	1132 ✓	
		12 21.6 ✓ 18.2		47° 00'	1072 ✓	
		13 20.4 ✓ 17.0		45° 20'	1012 ✓	
		14 19.0 ✓ 15.6		43° 57'	964 ✓	
		15 17.4 ✓ 14.0		41° 48'	894 ✓	
		16 16.0 ✓ 12.6		40° 42'	860 ✓	
		17 14.8 ✓ 11.4		39° 16'	818 ✓	
		18 13.4 ✓ 10.0		37° 58'	780 ✓	
		19 12.3 ✓ 8.9		36° 19'	735 ✓	
		20 11.0 ✓ 7.6		35° 04'	702 ✓	



76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 138 | Job No. 23022 Division No. 20 Notes Red. Date 8-2-55 Plotted Date Notes Chkd. Date Checked Date
Survey of Beach Erosion Study Profile No. X-Sec. No.
Survey by F. H. BLANCHARD Notes S.T. (Van Beren)
Indexed E. O. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21	10.2 ✓ 6.8		35° 49'	670 ✓	Cut in 235+00
	22	9.1 ✓ 5.7		32° 18'	632 ✓	
	23	7.7 4.3		31° 39'	604 ✓	
	24	7.3 ✓ 3.9		29° 18'	573 ✓	
	25	VOID ✓	9:27	27° 30'	521 ✓	
245+00-S	S-11					

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN X

6.74

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 225+00	SIGHT ON 230+00
235+00						
T.P. 306 FT R	11 41	18 99		758		
T.P	5 65	22 29	2 35	166		
S-11	2 78	19 52	5 59	16 74	L. & T. 231+00	
230+00			2 95	1657		CONC. WALK
35 FT. R.			32	163		SAND AT EDGE OF WALK
40 " "			33	162		BRK.
100 " "			62	163		
140 " "			77	118		LOW.
200 " "			74	121		
227 " "			77	118		
258 " "			98	97		BRK
TP 278 " "	0 77	8 74	11 55	797		
			5 4	3 3	34° 15' 340	
			8 8	-0 1	40 24 426	
			12 7	-4 0	49 01 576	
			16 5	-7 8	53 06 666	

5 230+00 Instore

Profile Notes Red Plotted Job No. 6300.07 Division No. 10 F.B. 1510 Pg. 139
No. X-Sec. Date Date Survey of BEACH BLVD. STUDIES
Notes Chkd. Checked Survey by Notes Ck'd EP Date 8-2-55
No. Date Date Map No. Indexed O. Johnson
5yl 231+00.00

F.B. 1510 Pg. 140 Job No. 0300.02 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes Ed. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 4-50

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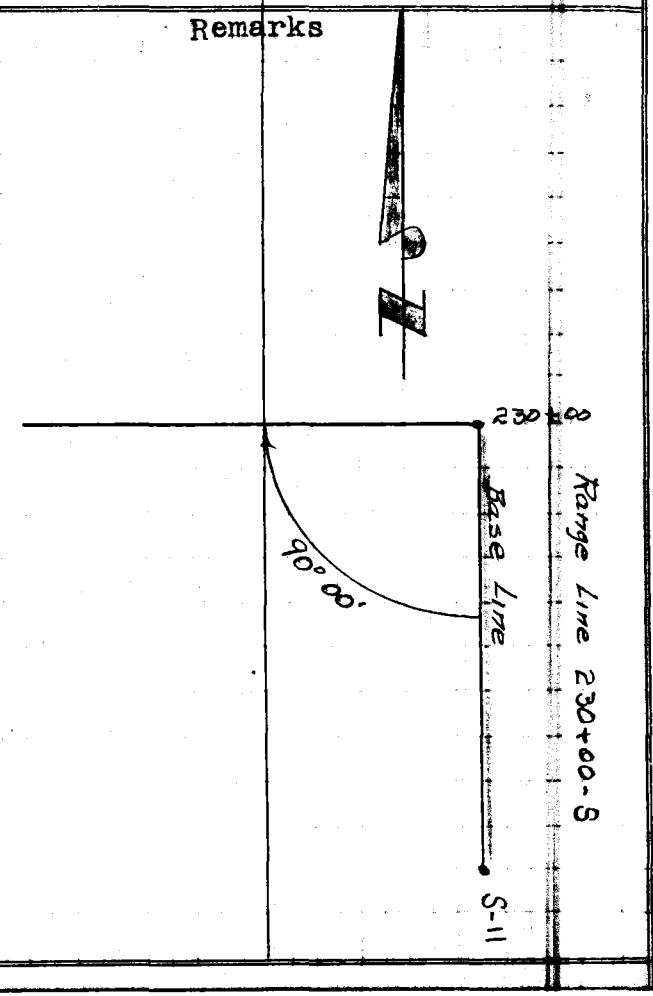
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 23002 Division No. 10 F. B. 1570 Pg. 141
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes by J.L.E. Date 8-2-55
No. Date Date Map No. Notes by Job Record Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At OR	#	Color	Time	Hor. Ang.	Remarks
230+00	S-11					1		9:41	90° 00'	
						2			90° 00'	
						3			90° 00'	
						4			90° 00'	
						5			90° 00'	
						6			90° 00'	
						7			90° 00'	
						8			90° 00'	
						9			90° 00'	
						10			90° 00'	
						11			90° 00'	
						12			90° 00'	
						13			90° 00'	
						14			90° 00'	
						15			90° 00'	
						16			90° 00'	
						17			90° 00'	
						18			90° 00'	
						19		9:45	90° 00'	



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

F. B. 1510 Pg. 142 | Job No. 3000-2 Division No. 10 Notes Red. Date Notes Chkd. Date Date | Profile No. X-Sec. No.

Survey of Beach Erosion
Survey by Van Deren Notes J.W.E.
Indexed C. Johnson Date

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight on	#		Time	Hor. Angle		
230+00	S-11					Range Line	230+00-S

76L298 307 10-51

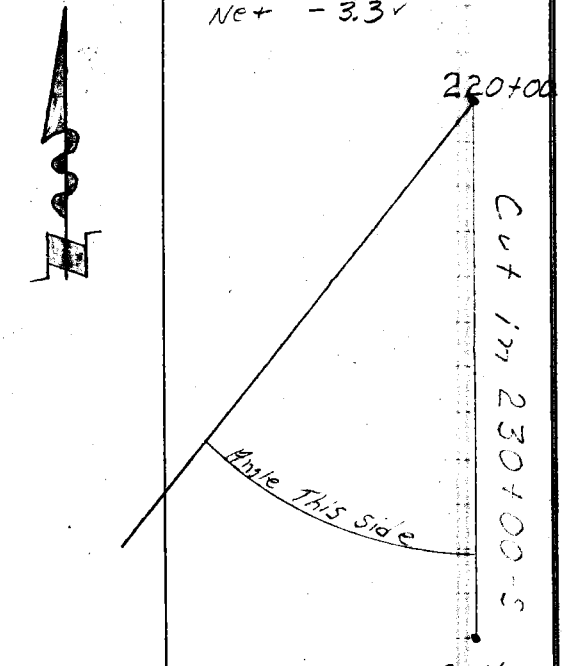
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No 216002 Division No. 10 F.B. 1570 Pg. 143
No.____ Date____ Date____ Survey of Bucks Lake Road
X-Sec. Notes Chkd____ Checked____ Survey [illegible] Date 8-2-55
No.____ Date____ Date____ Map No.____ Traced C. Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At Ok	#	Color	Time	Hor. Ang.		
						Boat +1.0
						Zero Adj −.5 ✓
						Tide −3.8 ✓
						Net −3.3 ✓
	1	32.0 ✓ 28.7	9:41	60° 07'	1740 ✓	−4.0 ✓
	2	30.8 ✓ 27.5		59° 06'	1671 ✓	
	3	29.9 ✓ 26.6		58° 05'	1606 ✓	
	4	28.8 ✓ 25.5		56° 46'	1526 ✓	
	5	27.8 ✓ 24.5		55° 20'	1446 ✓	
	6	26.0 ✓ 22.7		53° 12'	1337 ✓	
	7	25.0 ✓ 21.7		51° 59'	1279 ✓	
	8	24.2 ✓ 20.9		50° 00'	1192 ✓	
	9	22.5 ✓ 19.2		48° 12'	1118 ✓	
	10	21.1 ✓ 17.8		46° 32'	1055 ✓	
	11	19.5 ✓ 16.2		44° 41'	989 ✓	
	12	17.9 ✓ 14.6		42° 12'	907 ✓	
	13	15.9 ✓ 12.6		40° 13'	846 ✓	
	14	13.8 ✓ 10.5		37° 32'	768 ✓	
	15	12.2 ✓ 8.9		35° 27'	712 ✓	
	16	10.9 ✓ 7.6		33° 31'	662 ✓	
	17	9.1 ✓ 5.8		31° 54'	622 ✓	
	18	7.4 ✓ 4.1		29° 36'	568 ✓	
	19	6.5 ✓ 3.2	9:45	27° 10'	513 ✓	



S-11
220+00

F.B. 1510 Pg. 144 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-2-55 | Date | No.

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

Indexed Van Doren | Date | Date | Date | No.

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

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN ✓

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 220+00			SIGHT ON 225+00
230+00								
T.P. 278 Ft. R.	9 79	17 76		7 97				
T.P. 1	6 25	20 22	3 79	13 97				
225+00			3 56	16 66				
5 Ft. R.			38	16 4				
65 Ft R			38	16 4			BRK	
100 Ft. R.			6 3	13 9				
135 Ft. R.			8 1	12 1				
200 " "			8 7	11 5				
245 " "			9 5	10 7			BRK	
T.P. 276 " "	0 00	8 36	11 86	8 36	T.P.			
	1 70	5 56	4 50	3 86	T.P.			
			4 3	1 3	37° 35'	385	✓	
			6 0	- 0 4	41 18	439	✓	
			7 8	- 2 2	44 56	499	✓	
			10 4	- 4 8	50 08	599	✓	
			12 9	- 7 3	52 36	654	✓	
			14 9	- 9 3	54 14	694	✓	
			16 0	-10 4	55 12	719	✓	

Instore
S. 225+00

Profile Notes Red Plotted Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 145
No. Date Survey of BEACH EROSION ST
X-Sec. Notes Ckkd. Checked Survey By [illegible] Notes [illegible] Date 8-2-55
No. Date Map No. Index C. Johnson

F.B. 1510 Pg. 146 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by EE. & G.D. | Notes Ed. & G.D. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 507 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 4-50

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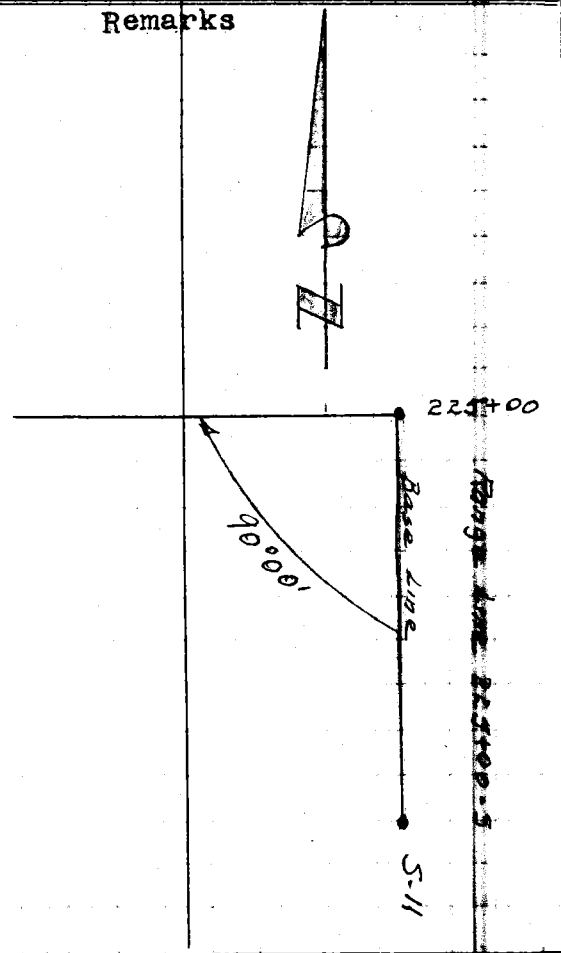
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On		# Color	Time	Hor. Ang.
		1	9:58	90° 00'
		2		90° 00'
		3		90° 00'
		4		90° 00'
		5		90° 00'
		6		90° 00'
		7		90° 00'
		8		90° 00'
		9		90° 00'
		10		90° 00'
		11		90° 00'
		12		90° 00'
		13		90° 00'
		14		90° 00'
		15		90° 00'
		16		90° 00'
		17	10:02	90° 00'

Remarks



225+00

S-11

Profile Notes Red. Plotted Job No. 0300-01 Division No. 10 F. B. 1570 Pg. 147
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd Checked Survey by Van Dorn Notes Date 8-2-55
No. Date Date Map No. Indexed J. Johnson Date

F. B. 1510 Pg. 148 | Job No. 0300.0V Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.

Index C. Johnson Date Date Date No.

761.298 307 4-50

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At. 225+00	Sight On #		Time	Hor. Angle	
5-11					Range Line 225+00-S

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

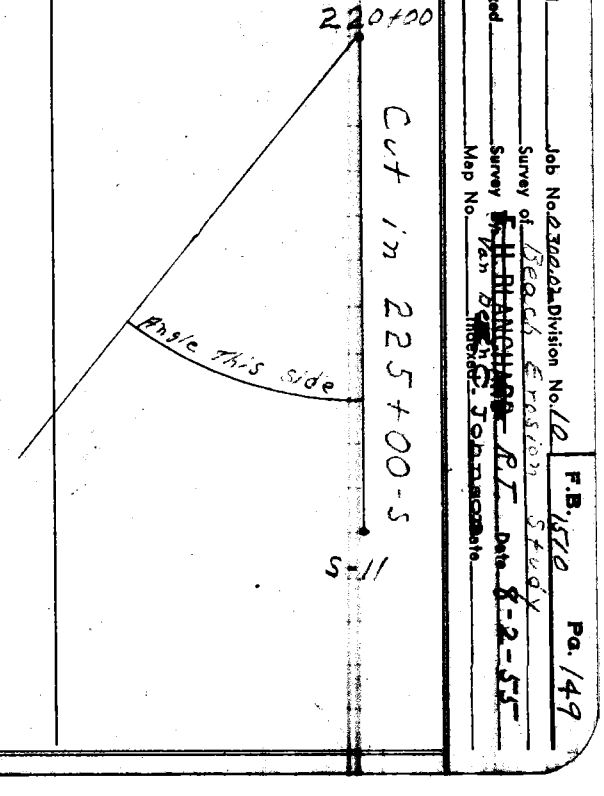
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 23202 Division No. 12 F.B. 1570 Pg. 149
No.____ Date____ Date____ Survey of Beach Erosion Study
X-Sec. Notes Chkd____ Checked____ Survey H.H. BLANCHARD R.T. Date 8-2-55
No.____ Date____ Date____ Map No.____ Inked C. Johnson Date____

STATION Inst. Sight At	On	B.S. #	H.I. Color		F.S. Time	ELEV. Hor. Ang.		Remarks
		1	26.9 ✓	23.7	9:58	70° 34'	1417 ✓	
		2	25.8 ✓	22.6		69° 28'	1335 ✓	
		3	24.7 ✓	21.5		68° 33'	1273 ✓	
		4	23.8 ✓	20.6		67° 34'	1211 ✓	
		5	22.7 ✓	19.5		66° 59'	1177 ✓	
		6	22.1 ✓	18.9		65° 58'	1121 ✓	
		7	21.2 ✓	18.0		64° 58'	1068 ✓	
		8	20.2 ✓	17.0		63° 41'	1011 ✓	
		9	18.9 ✓	15.7		62° 25'	957 ✓	
		10	17.4 ✓	14.2		60° 50'	896 ✓	
		11	15.6 ✓	12.4		59° 05'	835 ✓	
		12	13.2 ✓	10.0		57° 32'	786 ✓	
		13	11.9 ✓	8.7		55° 16'	721 ✓	
		14	10.5 ✓	7.3		53° 22'	672 ✓	
		15	8.2 ✓	5.0		50° 14'	601 ✓	
		16	6.7 ✓	3.5		47° 56'	554 ✓	
		17	5.4	2.2	10:02	45° 23'	507 ✓	

Boat +1.0
Zero Adj -.5 ✓
Tide -3.7 ✓
Net -3.2 ✓



220+00 S-11

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 1510 PG. 150

Job No. 230002 Division No. 10 Notes Red. Date 8-2-95

Survey of Beach Erosion Study Notes Chkd. Date

Survey by Utah Drew, P.L.S. Notes Date

Indexed Date

Profile No. Plotted Date Checked Date

X-Sec. No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line. CUT 1 IN X

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 225+00	SIGHT ON 220+00
225+00						
T.P. 278 Ft. R.	10 10	18 46		8 36		
T. P.	4 67	20 13	3 00	15 46		
220+00			392	16 21		CONC. WALK
7 Ft. R.			4 0	16 1		SAND OUTSIDE WALL
100 " "			4 9	15 2		BRK.
200 " "			8 6	11 5		
259 " "			10 8	9 3		BRK.
T.P. 283 " "	0 00	8 00	12 13	8 00	T.P.	
	1 85	5 85	4 00	4 00	T.P. 33° 46'	334
			4 5	1 3	38° 09' -	393
			7 7	-1 9	94 28	491
			12 0	-6 2	52 32	652
			16 5	-10 7	57 94	792

Inshore
220+00

Profile Notes Red Plotted Job No. 03000.02 Division No. LD F.B. 1510 Pg. 151
No. X-Sec. Date Date Survey Party ENGLISH Notes ED Date 8-2-55
No. Date Notes Chkd Checked Survey by ENGLISH Notes C. Johnson Date
Date Map No. Date

F.B. 1510 Pg. 152 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

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

Survey by Ed. & G.D. | Notes Some | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 307 8-53

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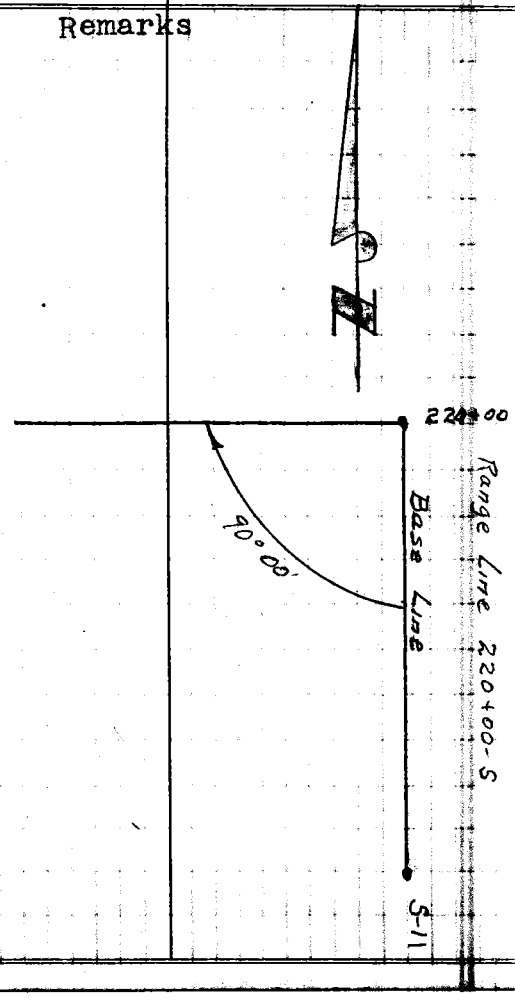
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. ____ Plotted ____ Job No. 23607 Division No. 16 F. B. 1070 Pg. 153
No. ____ Date ____ Date ____ Survey of Beach Erosion Notes WE Date 8-2-53
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Dereen
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Gibson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		10:13	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
S-11	10			90°00'	
220+00	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19		10:17	90°00'	



Book 1510 Pg. 154 | Job No. 8300 02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Van Deren | Notes NE | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No.____ Notes Red____ Platted____ Job No. 2300-2 Division No. 10 F.B. 1508 Pg. 153
X-Sec. No.____ Date____ Date____ Survey of Beach Erosion Study
Notes Chkd____ Checked____ Survey by U.S. Pier Co. Date 8-2-55
Date____ Date____ Map No.____ Indexed____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.		Remarks
Inst. Sight At On	#	Color	Time				Boat +41.0
							Zero Adj. -.6 ✓
							Tide -3.6 ✓ -3.9 ✓
							Net -3.2 ✓
	1	28.5 ✓ 25.3	10:13	72° 32'	1589	✓	
	2	28.2 ✓ 25.0		71° 59'	1537	✓	
	3	27.3 ✓ 24.1		71° 14'	1472	✓	
	4	26.4 ✓ 23.2		70° 12'	1389	✓	
	5	25.1 ✓ 21.9		69° 23'	1329	✓	
	6	24.2 ✓ 21.0		68° 25'	1264	✓	
	7	23.4 ✓ 20.2		67° 36'	1213	✓	
	8	22.6 ✓ 19.4		66° 49'	1168	✓	
	9	21.9 ✓ 18.7		66° 01'	1124	✓	
	10	21.2 ✓ 18.0		65° 14'	1084	✓	
	11	19.6 ✓ 16.4		63° 33'	1005	✓	
	12	18.3 ✓ 15.1		62° 02'	942	✓	
	13	16.4 ✓ 13.2		60° 33'	886	✓	
	14	15.1 ✓ 11.9		59° 25'	846	✓	
	15	13.4 ✓ 10.2		58° 11'	806	✓	
	16	11.9 ✓ 8.7		55° 55'	739	✓	
	17	10.4 ✓ 7.2		54° 00'	688	✓	
	18	9.2 ✓ 6.0		51° 43'	633	✓	
	19	6.9 ✓ 3.7	10:17	49° 03'	576	✓	
	20	VOID ✓					

Angle This side

S-10

Cut in 220+00-S

225+00

S-10

225+00

F.B. 1510 PG. 57 | Job No. 03002 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-2-55 | Date | No.

Survey by Van Deren | Notes R.T. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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Do not extend notes this side of this line.

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by Van Deren
Checked	Notes V.V.E. Date 8-4-55
Date	Indexed C. Johnson

F. B. 1510 Pg. 156A

August 4, 1955

836

No reading, Tide Gage out of order.

From Hendry Tide Table

500	0.1
530	0.4
600	1.0
630	1.7
700	2.3
730	2.9
800	3.4
830	3.9
900	4.2

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

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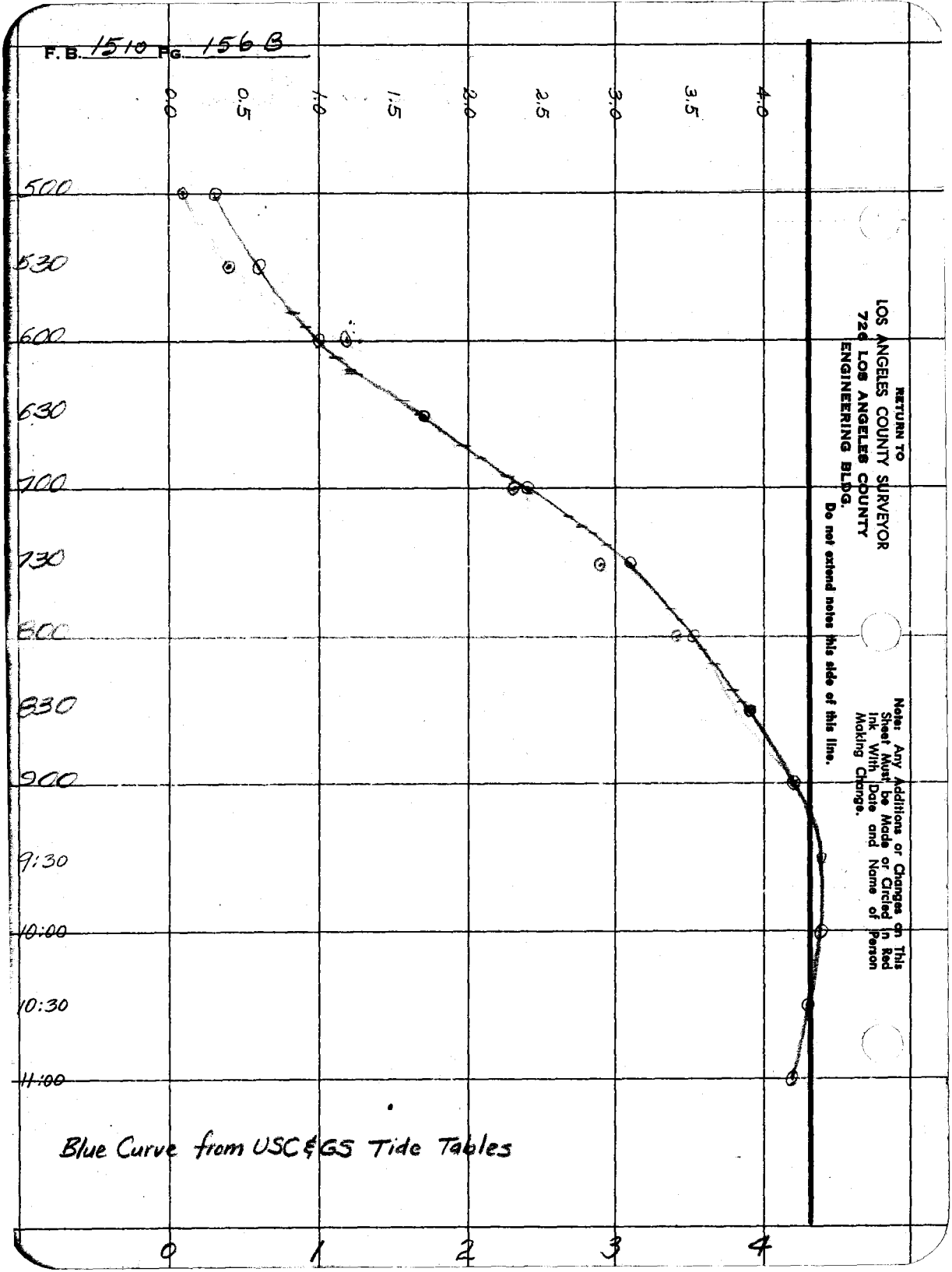
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

F. B. 1510 Pg. 156 B



Blue Curve from USC&GS Tide Tables

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
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Do not extend notes this side of this line. CUT IN ✗

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 220+00	SIGHT ON 215+00
T.P. 220+00				800		
278 FT R.	11 19	19 19				
T.P.	5 54	20 76	3 97	1522		
215+00	0 53	15 87	5 42	1534		
9' R.			1 4	145		
			3 6	12 3	5° 12' 46	
			4 0	11 9	12 54 115	
			3 9	12 0	19 17 175	
			5 8	10 1	26 57 254	
T.P.	3 30	6 72	12 45	3 42	35 01 350	
			5 3	1 4	38 57 404	
			7 7	-1 0	42 34 459	
			9 5	-2 8	47 30 546	
			12 7	-6 0	51 53 637	
			15 1	-8 4	55 19 723	

INSHORE
S.
215+00

Profile
Notes Red. Plotted. Job No. 030002 Division No. D F.B. 1510 Pg. 157
No. Date. Date. Survey of PEARL AVE. STUDIES
X-Sec. Notes Chkd. Checked. Survey by LENSLUSH Notes EDITED Date 8-4-55
No. Date. Date. Map No. Notes Job Date

F.B. 1510 Pg. 158 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes Some Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 507 10-51

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76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

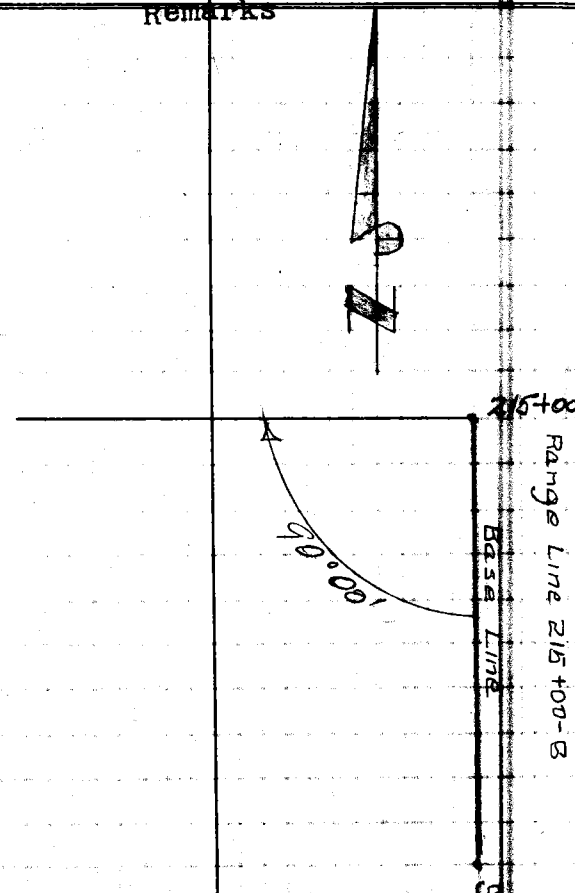
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2900-2 Division No. 10
No. Date Date Survey of Beach Erosion F. B. 1510 Pg. 159
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes J.E. Date 9-8-55
No. Date Date Map No. Index C. Johnson

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At : On		# Color	Time	Hor. Ang.
		1	5:48	90° 00'
		2		90° 00'
		3		90° 00'
		4		90° 00'
		5		90° 00'
		6		90° 00'
		7		90° 00'
		8		90° 00'
		9		90° 00'
215+00	S-11	10		90° 00'
		11		90° 00'
		12		90° 00'
		13		90° 00'
		14		90° 00'
		15		90° 00'
		16		90° 00'
		17		90° 00'
		18		90° 00'
		19		90° 00'
		20		90° 00'

Remarks



76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 160 | Job No. 83000 | Division No. 10 | Notes Red. | Plotted | Profile
Survey of Beach Erosion | Date | Date | No.
Survey by Van Dorn | Notes | Notes Chkd. | Checked | X-Sec.
Indexed C. Johnson | Date | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight on	#		Time	Hor. Angle		
		21			90°00'		
		22			90°00'	Range Line	215+00-S
		23			90°00'		
		24			90°00'		
		25			90°00'		
		26			90°00'		
215+00	S-11	27			90°00'		
		28			90°00'		
		29		5.54	90°00'		

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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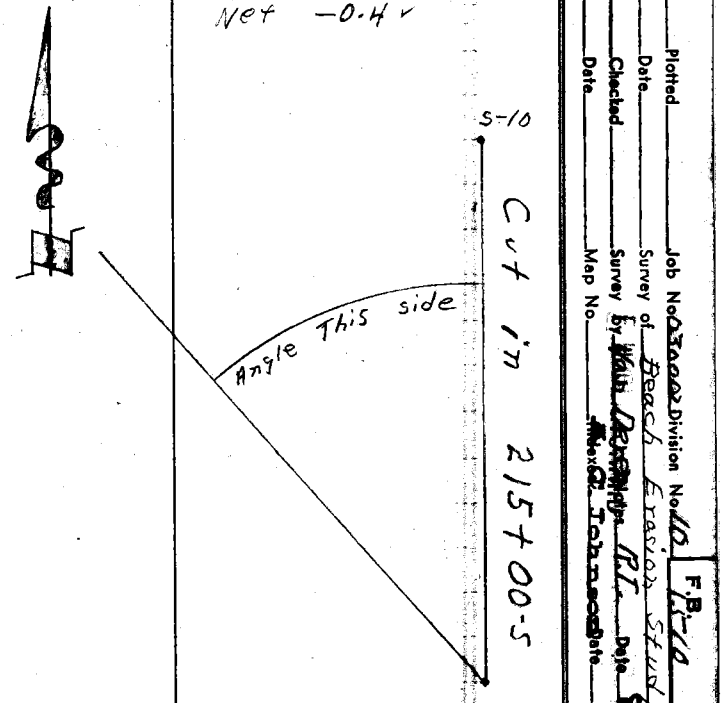
Do not extend notes this side of this line.

Profile No.____ Date____ X-Sec. No.____ Date____ Notes Red____ Date____ Notes Chkd____ Date____ Plotted____ Date____ Checked____ Date____ Job No 72222 Division No 10 Survey of Beach Erosion Study Survey by Wash Dept. RT. Date 8-4-55 Map No.____ Index Date____ F.B. 1-44 Pg. 16

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.			
	1	32.1 ✓ 31.7	17 48	76° 14'	2041	✓	Boat +1.0
	2	30.9 ✓ 30.5		75° 19'	1908	✓	Zero Adj -.5 ✓
	3	29.9 ✓ 29.5		74° 41'	1826	✓	Tide -.9 ✓
	4	29.2 ✓ 28.8		74° 06'	1787	✓	Net -0.4 ✓
	5	28.7 ✓ 28.3		73° 59'	1781	✓	
	6	28.2 ✓ 27.8		74° 12'	1771	✓	
	7	28.0 ✓ 27.6		73° 45'	1715	✓	
	8	27.2 ✓ 26.8		73° 02'	1639	✓	
	9	26.4 ✓ 26.0		72° 29'	1584	✓	
	10	25.6 ✓ 25.2		71° 54'	1530	✓	
	11	25.1 ✓ 24.7		71° 27'	1490	✓	
	12	24.6 ✓ 24.2		70° 50'	1438	✓	
	13	23.6 ✓ 23.2		70° 13'	1390	✓	
	14	23.4 ✓ 23.0		69° 39'	1348	✓	
	15	22.4 ✓ 22.0		69° 04'	1307	✓	
	16	22.0 ✓ 21.6		68° 15'	1253	✓	
	17	20.8 ✓ 20.4		67° 14'	1191	✓	
	18	19.9 ✓ 19.5		66° 24'	1144	✓	
	19	19.0 ✓ 18.6		65° 20'	1089	✓	
	20	17.6 ✓ 17.2		64° 12'	1034	✓	



220+00 S-10

76L298 307 10-51

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

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

Do not extend notes this side of this line.

F.B. 1510 PG. 76 Job No. 03en02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-4-55 Date
Survey by Manhattan Notes R.T. Notes Chkd. Checked
Indexed E. C. Johnson Date Date Date
Profile No. X-Sec. No.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color		Time	Hor. Ang.		
		21	16.1	15.7		62° 51'	975	Cut in 215+00-S
		22	14.5	14.1		61° 25'	916	
		23	13.3	12.9		59° 5'	869	
		24	12.0	11.6		58° 29'	820	
		25	10.5	10.1		57° 25'	782	
		26	9.7	9.3		56° 9'	750	
		27	9.0	8.6		57° 6'	704	
		28	7.9	7.5		55° 9'	665	
220+00	S-10	29	6.6	6.2	5:54	51° 29'	636	

76L298 307 10-51

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Do not extend notes this side of this line. CUT IN 4

Profile Notes Red Plotted Job No. 43001-07 Division No. ID F.B. 1510 Pg. 163
No. Date Date Survey of DEER & ENGLISH Party SMITH STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Noted ED Date 8-4-55
No. Date Date Map No. Traced Date

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 205+00	SIGHT ON 210+00
215+00	5 68	21 02		1534		
210+00			556	1546		
T.P.	1 46	1686	562	1540		
210+00 40 FT. R.			14	1554		SAND AT EDGE OF PAV.
100 " "			30	1394		
160 " "			43	1263		BRK
200 " "			60	1094		
245 " "			73	96		BRK
268 " "			81	88		BRK
T.P. 300 " "	1 98	8 35	1049	637		
			49	351	35° 10'	352
			84	00	41 28	442
			131	-47	51 11	622
			180	-96	57 15	777

INSTRUMENT S. 210+00

F.B. 1510 PG. 164 | Job No. 0300.02 | Division No. 10 | Notes Red | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.E. & G.D. | Notes E.E. & G.D. | Notes Chkd | Checked | X-Sec.

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

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

76L298 307 10-51

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Do not extend notes this side of this line.

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

Notes Red ____ Date ____ Notes Chkd. ____ Date ____

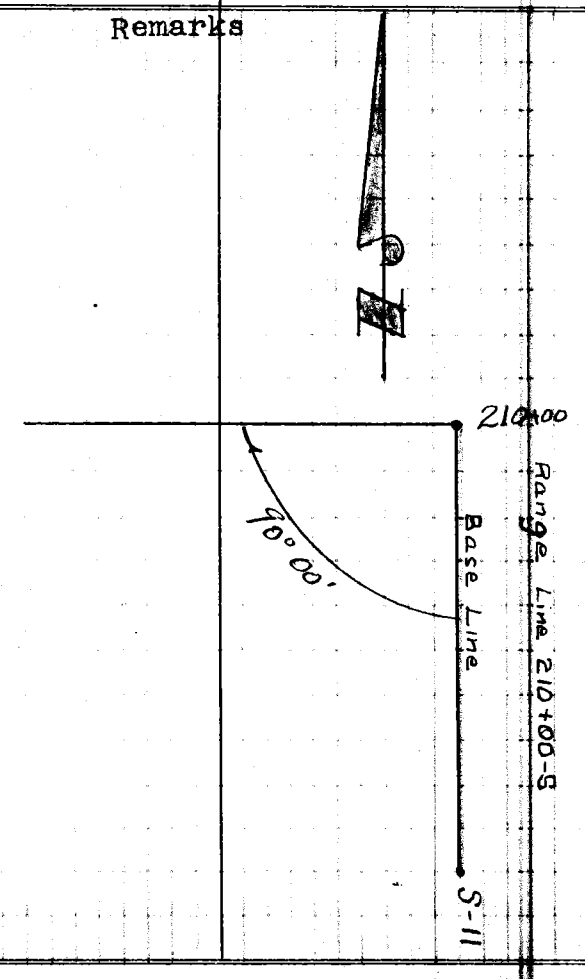
Plotted ____ Date ____ Checked ____ Date ____

Job No. 300 10 Division No. 10 F. B. 1516 Pg. 14

Survey of Beach Erosion Survey by Ken Dacus Notes J.W.S. Date 8-4-55

Map No. ____ Notes J.W.S. Date ____

STATION Inst. At	Sight Ch	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
210+00	S-11	1		6:07	90°00'	
		2			90°00'	
		3			90°00'	
		4			90°00'	
		5			90°00'	
		6			90°00'	
		7			90°00'	
		8			90°00'	
		9			90°00'	
		10			90°00'	
		11			90°00'	
		12			90°00'	
		13			90°00'	
		14			90°00'	
		15			90°00'	
		16			90°00'	
		17			90°00'	
		18			90°00'	
		19			90°00'	
		20			90°00'	



76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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F.B. 1510 Pg. 166 Job No. 2300.02 Division No. 18 Notes Red. Plotted
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90°00'		
	22			90° 00'	Range Line	210+00-S
	23			90° 00'		
	24			90° 00'		
	25			90° 00'		
	26			90° 00'		
210+00 / S-11	27			90° 00'		
	28			90° 00'		
	29		6:13	90° 00'		

76L298 307 8-53

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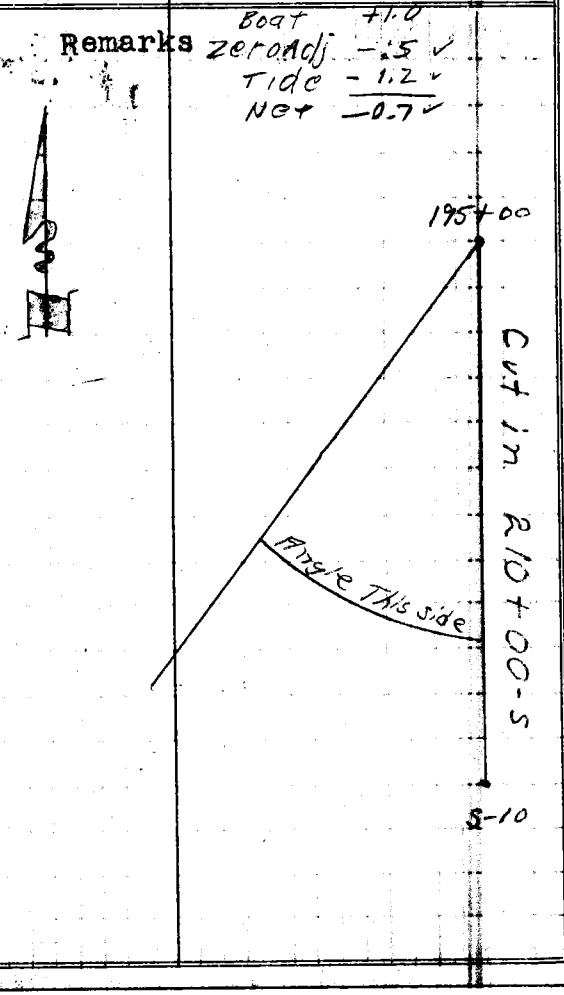
Profile Notes Red. Plotted Job No. 03002 Division No. 10 F.B. 1820 Pg. 167
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Wm. Morgan, Wm. Pitt Date 8-24-55
No. Date Date Map No. Rdgd. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.			
195+00 / S-10	1	37.0 ✓ 36.3	6:07	60° 22'	2637	✓	Boat +1.0 Zero Adj -.5 ✓ Tide -1.2 ✓ Net -0.7 ✓
	2	35.6 ✓ 34.9		59° 17'	2525	✓	
	3	34.8 ✓ 34.1		58° 22'	2435	✓	
	4	34.3 ✓ 33.6		57° 11'	2326	✓	
	5	32.9 ✓ 32.2		56° 23'	2256	✓	
	6	32.1 ✓ 31.4		55° 22'	2172	✓	
	7	31.0 ✓ 30.3		53° 36'	2035	✓	
	8	30.1 ✓ 30.4		52° 25'	1949	✓	
	9	29.2 ✓ 28.5		51° 10'	1863	✓	
	10	28.2 ✓ 27.5		49° 53'	1780	✓	
	11	27.8 ✓ 27.1		48° 27'	1692	✓	
	12	26.7 ✓ 26.0		47° 08'	1616	✓	
	13	25.9 ✓ 25.2		45° 45'	1540	✓	
	14	24.9 ✓ 24.2		44° 19'	1465	✓	
	15	24.2 ✓ 23.5		42° 35'	1379	✓	
	16	23.1 ✓ 22.4		40° 53'	1299	✓	
	17	22.0 ✓ 21.3		39° 10'	1222	✓	
	18	21.1 ✓ 20.4		37° 25'	1148	✓	
	19	19.4 ✓ 18.7		35° 20'	1063	✓	
	20	17.8 ✓ 17.1		33° 41'	1000	✓	



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F. B. 1516 Pg. 168 Job No 2302-02 Division No. 10 Notes Red. Plotted No.
Survey of Beach Erosion Study Date 8-4-55 Date X-Sec.
Survey by Wah, Bernard Notes R.T. Notes Chkd. Checked
Indexed E. C. Johnson Date Date Date No.
Profile

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		21	16.0 ✓	15.3		32° 00'	937 ✓	Cut in 210+00-S
		22	14.1 ✓	13.4		30° 27'	882 ✓	
		23	12.9 ✓	12.2		29° 15'	840 ✓	
		24	11.5 ✓	10.8		27° 51'	793 ✓	
		25	10.3 ✓	9.6		26° 34'	750 ✓	
195+00-S		26	9.3 ✓	8.6		25° 25'	713 ✓	
		27	8.4 ✓	7.7		24° 15'	676 ✓	
	S-10	28	6.5 ✓	5.8		22° 12'	627 ✓	
		29	VOID ✓		6:13	21° 43'	597 ✓	

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 200+00	SIGHT ON 205+00
210+00 T.P. 300 FT. R.	10 50	16 87		6 37		
T. P.	4 40	17 39	388	1299		
205+00			114	1625		
8 FT. R.			20	154		NOTE — LOCAL SPOT
100 " "			34	140		BETWEEN STA. 210+00 & 205+00 ABOUT 100 FT WIDE ALONG WALK AND 200 FT TOWARD OCEAN IS LOW TO AN AVERAGE DEPTH OF 2 FT.
52 " "			40	134	BRK.	
200 " "			66	108		
250 " "			90	84	BRK	
T.P. 286 " "	2 58	8 60	1137	602		
			40	4 61	31° 35' 307	
			70	1 61	37 26 383	
			115	-2 91	45 56 517	
			152	-6 61	50 20 603	

5 Inshore 205+00

Profile Notes Red Plotted Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 162
No. X-Sec. Date Date Survey of BEACH EROSION STUDIES
No. Notes Chkd Checked Survey by EE & GD Notes EE&GD Date 8-4-55
Date Date Map No. Indexed Johnson Date

F.B. 1510 PG. 170 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

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

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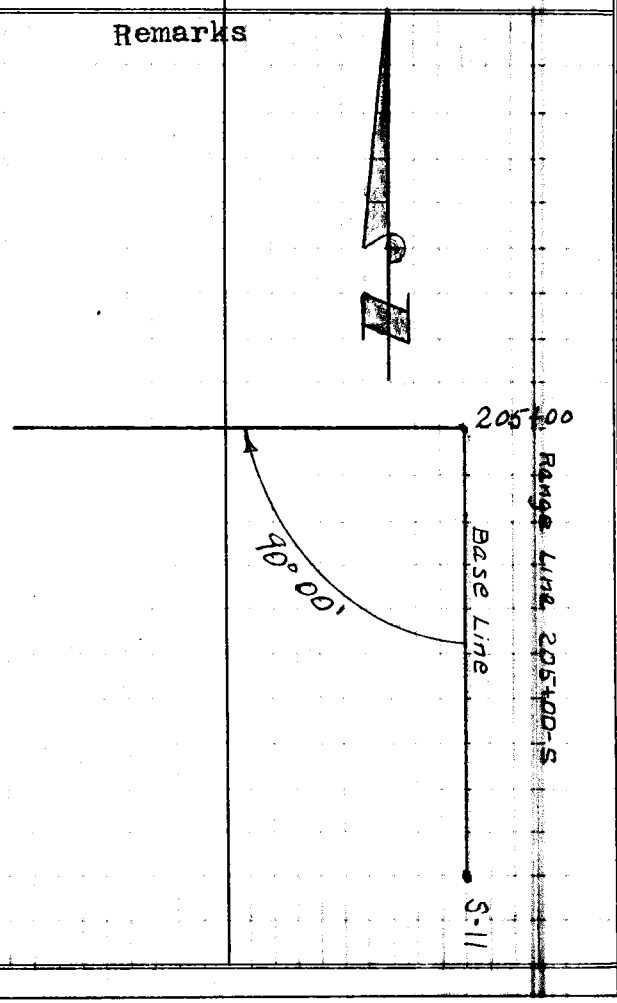
Profile Notes Red.____ Plotted____ Job No. 3200-V Division No. 10 F. B. 1370 Pg. 171
No.____ Date____ Date____ Survey of Beach Erosion
X-Sec. Notes Chkd.____ Checked____ Survey by Walt Derem Notes J.W.E. Date 2-4-55
No.____ Date____ Date____ Map No.____ Traced Johnson Date____

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



S-11
205+00

76L298 307 8-53

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

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F.B. 4570 Pg. 172 Job No. 8300.0 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date Date
Survey by Van Deren Notes Notes Chkd. Checked
Indexed K. C. Johnson Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'		
	22			90° 00'	Range Line	205+00-S
	23			90° 00'		
	24			90° 00'		
	25		6.29	90° 00'		
205+00						
S-11						

76L298 307 8-53

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

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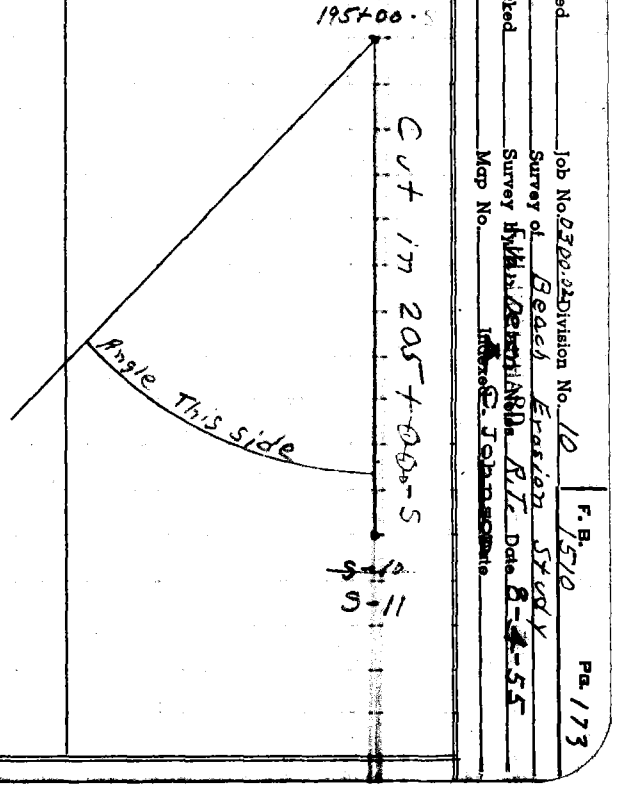
Profile Notes Red____ Plotted____ Job No. 0720.22 Division No. 12 F. B. 5510 Pg. 173
No.____ Date____ Date____ Survey of Beach Erosion Study
X-Sec. Notes Chkd.____ Checked____ Survey by H.W. Detrich & R.T. Date 8-4-55
No.____ Date____ Date____ Map No.____ Inked____ Date____

Inst. At 195+00-S — Sight On S-10 S-11

STATION	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		
	1	32.6	31.4	6:24	65° 26'	2188	✓
	2	31.8	30.6		64° 58'	2141	✓
	3	30.9	29.7		63° 50'	2035	✓
	4	30.2	29.0		62° 56'	1957	✓
	5	29.5	28.3		62° 11'	1895	✓
	6	29.0	27.8		61° 17'	1825	✓
	7	28.2	27.0		60° 17'	1752	✓
	8	27.4	26.2		59° 09'	1674	✓
	9	26.6	25.4		57° 52'	1592	✓
	10	26.0	24.8		56° 27'	1508	✓
	11	24.7	23.5		54° 31'	1403	✓
	12	23.7	22.5		52° 55'	1323	✓
	13	23.0	21.8		51° 26'	1254	✓
	14	21.9	20.7		49° 34'	1174	✓
	15	21.1	19.9		47° 55'	1107	✓
	16	20.1	18.9		46° 16'	1045	✓
	17	18.9	17.7		44° 38'	987	✓
	18	17.3	16.1		43° 18'	942	✓
	19	16.0	14.8		41° 35'	887	✓
	20	14.3	13.1		40° 01'	840	✓

Remarks

Boat +1.0
Zero Adj -.6 ✓
Tide -1.6 ✓
Net -1.2 ✓



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F. B. 1510 Pg. 179 | Job No 2300.02 Division No. 10 Notes Red. Date 8-4-55 Plotted Date
Survey of Beach Erosion Study Notes Chkd. Checked Date
Survey by Van Deren Notes P.T. Notes Date
Indexed C. Johnson Date
Profile X-Sec. No

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	12.6 11.4		35° 23'	792	Cut in 205+00-S
	22	11.1 9.9		36° 22'	736	
	23	9.5 8.3		34° 34'	689	
	24	7.7 6.5		32° 05'	628	
	25	6.7 5.5	6:29	30° 19'	585	
195+00-S / S-10						

76L298 307 10-51

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1 of

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STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 195+00			SIGHT ON 200+00
205+00 T.P.286 FT. R.	11 69	17 71		6 02				
T.P.	166	1743	194	1577				
200+00			113	1630				
8 FT. R.			16	158				SAND OUTSIDE WALL
35 " "			16	158				BRK
85 " "			31	143				"
100 " "			34	140				
150 " "			39	135				BRK
200 " "			69	~~10.5~~				
238 " "			87	87				
T.P.277 " "	205	8 18	1130	613				
			6 0	22	35° 56'	362	✓	
			10 4	-2 2	93 53	481	✓	
			151	-6 9	52 28	651	✓	

In Store
200+00

Profile Notes Red_____ Plotted_____ Job No. 03000.02 Division No. 10 F.B. 1510 Pg. 175
No._____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. _____ Date_____ Survey By DREW & ENG. Notes E.D. & ED Date 7-4-55
No._____ Notes Chkd_____ Checked_____ Survey_____ Notes_____ Date_____
Date_____ Map No._____ Date_____ Thos. G. Johnson

F.B. 1510 PG. 176 Job No. 0300.02 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Date Date No.

Survey by EE. & G.D. Notes EE. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

78L298 307 10-51

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76L298 3M7 8-53

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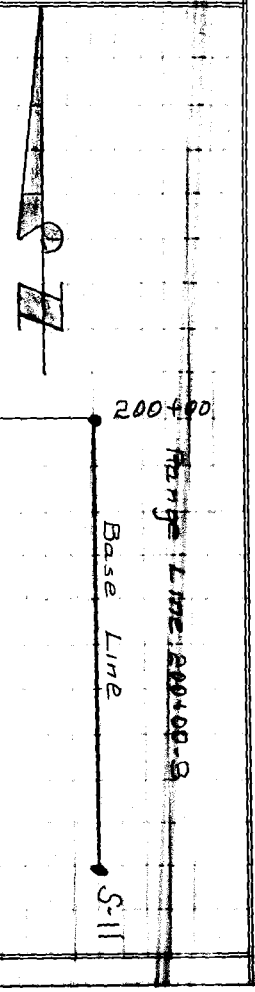
Profile Notes Red. Plotted Job No. 230002 Division No. 10 F. B. 1670 Pg. 177
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Loren Notes JE Date 2-4-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:42	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
200+00 S-11	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	



76L298 307 8-53

PLEASE RETURN TO
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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F.B. 1510 Pg. 118 Job No. 4300.02 Division No. 16 Notes Red. Date Plotted Date No.
Survey of Beach Erosion Notes Date X-Sec.
Survey by Van Deren Notes Chkd. Checked
Indexed K. C. Johnson Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			90°00'		
	22			90°00'	Range Line	200+00-S
	23			90°00'		
	24			90°00'		
	25		6:47	90°00'		
200+00 S-11						

76L298 307 8-53

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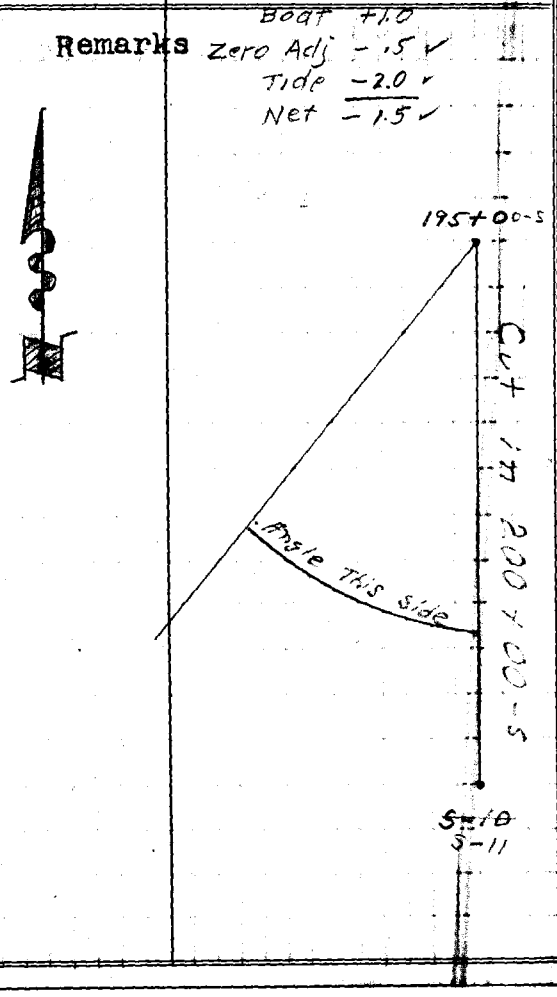
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 2Tee.A2 Division No. 10 F.B. 1570 Pg. 179
No. Date Date Survey of Beach Erosion Study Date 9-4-55
X-Sec. Notes Chkd Checked Survey by W.H. Dennis Noted A.T. Date
No. Date Date Map No. Inked Traced Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
	1	31.1 29.6	6:42	76° 00'	2005	Boat +1.0
	2	30.2 28.7		75° 16'	1901	Zero Adj -.5
	3	29.2 27.7		74° 35'	1813	Tide -2.0
	4	28.7 27.2		74° 15'	1773	Net -1.5
	5	27.8 26.3		73° 14'	1660	
	6	27.2 25.7		72° 28'	1583	
	7	26.2 24.7		71° 34'	1500	
	8	25.8 24.3		70° 35'	1419	
	9	24.7 23.2		69° 22'	1328	
	10	23.8 22.3		68° 20'	1259	
	11	23.0 21.5		67° 20'	1197	
	12	21.8 20.3		65° 50'	1114	
	13	21.0 19.5		64° 30'	1048	
	14	19.0 17.5		62° 56'	979	
	15	17.7 16.2		61° 33'	923	
	16	16.0 14.5		60° 08'	871	
	17	14.6 13.1		59° 00'	832	
	18	13.2 11.7		57° 39'	789	
	19	12.3 10.8		56° 16'	749	
	20	11.1 9.6		55° 00'	714	



1954+00 5-10 5-11 0-5

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1870 Pg. 180 Job No. 2meez Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-4-55 Date No.
Survey by Van Deren Notes 1P11 Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No. Profile

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.		Remarks
		1	10.1	8.6		[illegible]	683	Cut in 200+00-S
		2	8.7	7.2		[illegible]	644	
		3	7.6	6.1		[illegible]	609	
		4	6.2	4.7		[illegible]	562	
		5	5.5	4.0	6:47	[illegible]	540	
195+00-S	S-10							

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line. CUT IN 4

Profile Notes Red Plotted Job No. 030002 Division No. F.B. 1510 Pg. 19
No. Date Date Survey by BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by ENGLISH Noted GEORGE Date 8-4-55
No. Date Date Map No. Traced Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 191+50		SIGHT ON 195+00
200+00 T.P. 277 FT. R.	11 40	17 53		6 13			
T.P.	4 42	19 08	2 87	14 66			
195+00			2 56	16 52			
8 FT. R.			2 7	16 4			SAND OUTSIDE WALL
100 " "			5 1	14 0			
149 " "			5 6	13 5			BRK
200 " "			8 3	10 8			BRK
246 " "			10 3	8 8			"
268 " "	0 94	8 37	11 65	7 43			
		"	4 4	4 0	41° 54'	314	
			6 6	1 8	46 07	364	
			9 1	-0 7	50 38	427	
			11 0	-2 6	55 48	515	
			14 3	-5 9	58 55	581	
			17 0	-8 6	61 15	638	

Instore
Station

F.B. 1510 PG. 196 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile

Survey of Beach ER06100 Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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76L296 307 8-53

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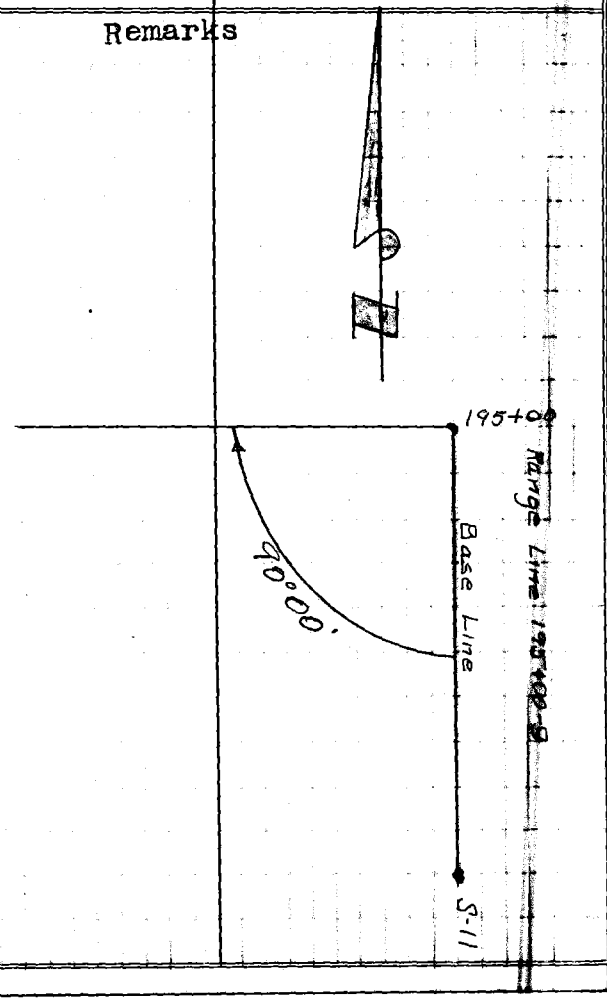
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted
No. Date Date Job No. 2302 Division No. 10 F. B. 1570 Pg. 197
X-Sec. Notes Chkd. Checked Survey of Beach Eros 107
No. Date Date Map No. Survey by Van Deren Notes J.E. Date 8-4-55

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CR	#	Color	Time	Hor. Ang.	
	1		6:55	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	



195+00
S-11

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1570 Pg. 194 Job No. 23801 Division No. 10 Notes Red. Date Plotted Date No.
Survey of Beach Erosion Notes Chkd. Date Checked Date X-Sec. No.
Survey by Van Deren Notes Date
Indexed A. C. Johnson

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21			90° 00'	
	22			90° 00'	Range Line 195+00-S
	23		7:00	90° 00'	
195+00 / S-11					

76L298 307 8-53

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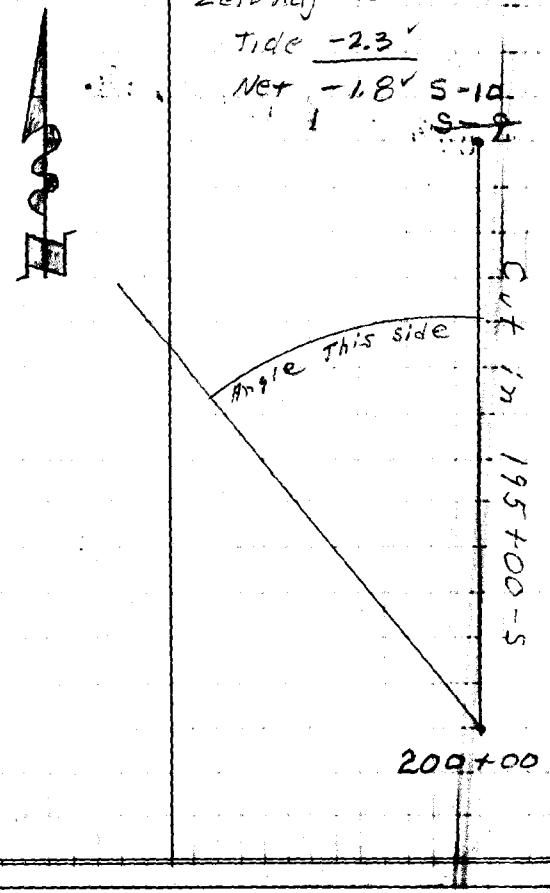
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Rod____ Plotted____ Job No. 2300.02 Division No. 12 F.B. 5710 Pg. 197
No.____ Date____ Date____ Survey of Beach Erosion Study
X-Sec. Notes Chkd.____ Checked____ Survey by Irwin Zerenner, R.E. Date 8-4-55
No.____ Date____ Date____ Map No.____ Recorded Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
	1	31.7 29.9	6:55	76° 00'	2005 ✓	Boat +1.0
	2	30.9 29.1		75° 15'	1899 ✓	Zero Adj -.5 ✓
	3	30.2 28.4		74° 49'	1842 ✓	Tide -2.3 ✓
	4	29.2 27.4		74° 01'	1746 ✓	Net -1.8 ✓ S-10
	5	28.2 26.4		73° 08'	1649 ✓	S-9
	6	27.0 25.2		72° 07'	1550 ✓	
	7	26.5 24.7		71° 14'	1472 ✓	
	8	25.6 23.8		70° 03'	1378 ✓	
	9	24.4 22.6		68° 40'	1280 ✓	
	10	23.0 21.2		67° 02'	1180 ✓	
	11	21.8 20.0		65° 28'	1095 ✓	
	12	20.2 18.4		64° 02'	1027 ✓	
	13	18.6 16.8		62° 14'	950 ✓	
	14	17.0 15.2		60° 55'	899 ✓	
	15	16.0 14.2		59° 40'	855 ✓	
	16	14.6 12.8		58° 22'	812 ✓	
	17	13.0 11.2		56° 56'	768 ✓	
	18	11.6 9.8		55° 20'	723 ✓	
	19	10.8 9.0		53° 54'	686 ✓	
	20	9.2 7.4		52° 28'	651 ✓	



F. B. 1570 Pg. 200 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-4-55 Date No. X-Sec.
Survey by H. BLANCHARD Notes A.V. Chkd. Checked
Indexed [illegible] Notes Date Date Date No. Profile

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# / Color		Time	Hor. Ang.		Remarks
	21 8.0	6.2		39° 06	620 ✓	Cut in 195+00-S
	22 6.9	5.1		40° 01	576 ✓	
	23 5.7	3.9	7:00	41° 47	551 ✓	
200+00 / S-9						

76L298 307 10-51

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

Do not extend notes this side of this line. CUT IN 4

Profile Notes Red_____ Plotted_____ Job No. 3300.02 Division No._____
No._____ Date_____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd._____ Checked_____ Survey by DEEL & RAY Notes C.E.D. Date 8-4-55
No._____ Date_____ Map No._____ Indexed C. Johnson Date

F.B. 1510 PG. 20

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 185+00			SIGHT ON 190+00
195+00								
T.P. 268 FTR	10 99	18 42		7 43				
T.P.	6 13	21 26	3 29	15 13				
190+00			4 61	16 65	L.B.T.			
				78				
5-10	2 80	19 58	4 51	16 75	L.B.T. ELEV. 16.185 FB 2100-163			
190+00								
10 FT R.			3 6	16 0				SAND OUTSIDE OF WALL
40 " "			3 1	16 5				BRK
100 " "			4 9	14 7				
130 " "			5 8	13 8				BRK
166 " "			5 7	13 9				"
200 " "			7 4	12 2				
257 " "			10 6	9 0				BRK
T.P. 268 " "	0 99	9 17	11 43	8 15	T.P.			
			5 1.	4 0	33° 40'	333	✓	
			7 6	1 5	38 57	404	✓	
			10 4	-1 3	43 57	482	✓	
			12 4	-3 3	49 38	588	✓	
			14 6	-5 5	53 21	672	✓	
			17 0	-7 9	55 26	726	✓	

INSHORE

F.B. 1510 PG. 202 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

761298 307 10-51

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76L298 307 8-53

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

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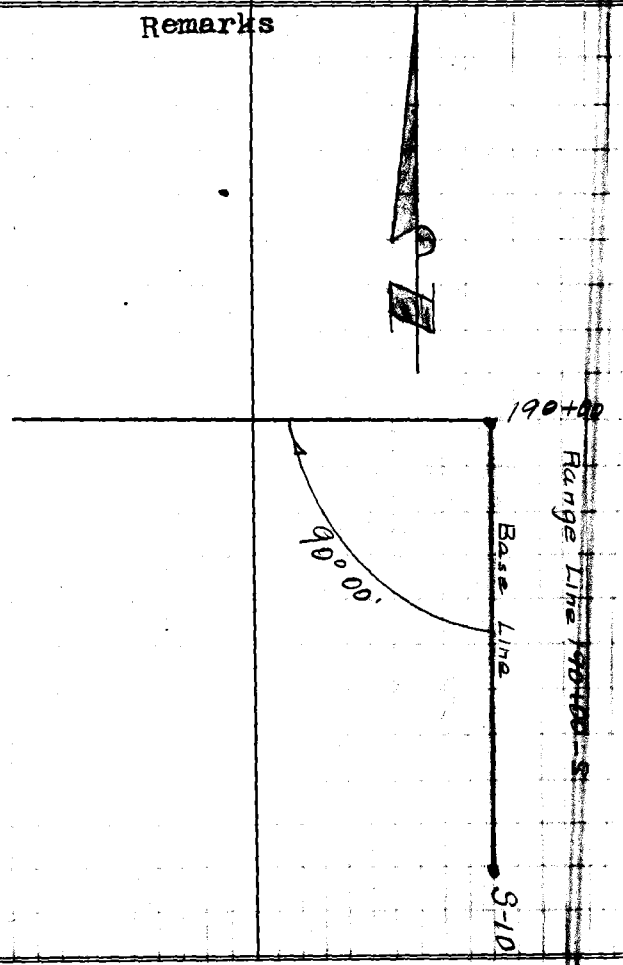
Profile Notes Red. Plotted Job No. C3004 Division No. 10 F. B. 1570 Pg. 203
No. Date. Date. Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Hamberger Notes 1/4 Date. 8-4-53
No. Date. Date. Map No. Traced J.D.S. Date.

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



S-10
190+00

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 204 Job No. 8300.02 Division No. 10 Notes Red. Date Notes Chkd. Date

Survey of Beach Erosion Date Checked Date

Survey by Van Dereq Notes Date

Indexed R. C. Johnson Date

Profile No. X-Sec. No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#		Time	Hor. Angle		
		21			90° 00'		
		22			90° 00'	Range Line	190+00-S
		23			90° 00'		
		24			90° 00'		
		25		7:16	90° 00'		
190+00	S-10						

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

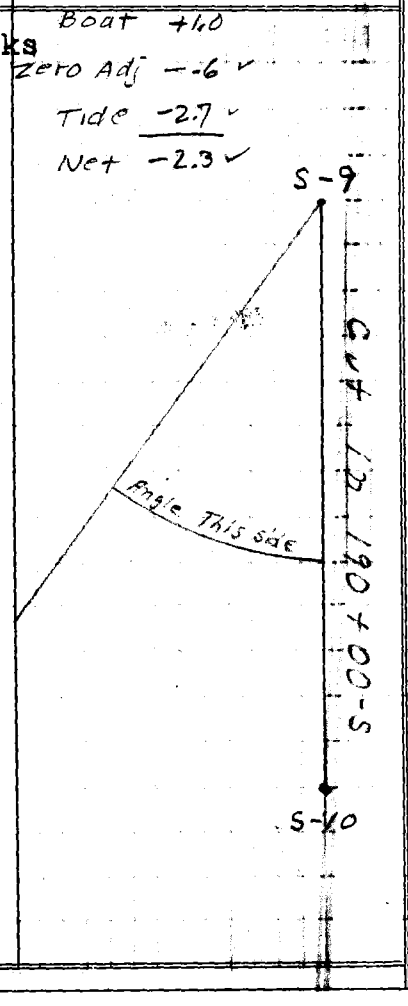
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. ____ Plotted ____ Job No. 8166 Division No. 5
No. ____ Date ____ Date ____ Survey of Tract 13864 Frosted Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Date 8-4-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 5510 Pg. 205

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	31.6 29.3	7:11	63° 04'	1968 ✓	Boat +1.0
	2	30.9 28.6		62° 08'	1891 ✓	Zero Adj -.6 ✓
	3	30.6 28.3		61° 23'	1833 ✓	Tide -2.7 ✓
	4	29.3 27.0		60° 20'	1756 ✓	Net -2.3 ✓
	5	28.5 26.2		59° 46'	1716 ✓	
	6	28.1 25.8		58° 01'	1601 ✓	
	7	27.4 25.1		56° 15'	1497 ✓	
	8	26.5 24.2		54° 40'	1411 ✓	
	9	25.4 23.1		53° 00'	1327 ✓	
	10	24.3 22.0		51° 00'	1235 ✓	
	11	23.5 21.2		49° 23'	1166 ✓	
	12	22.2 19.9		47° 48'	1103 ✓	
	13	20.5 18.2		45° 42'	1025 ✓	
	14	19.1 16.8		44° 16'	975 ✓	
	15	17.7 15.4		42° 45'	924 ✓	
	16	16.0 13.7		40° 54'	866 ✓	
	17	14.1 11.8		39° 15'	817 ✓	
	18	12.8 10.5		37° 35'	770 ✓	
	19	11.8 9.5		35° 52'	723 ✓	
	20	10.4 8.1		34° 00'	675 ✓	



S-9 S-10

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1570 Pg. 206 Job No 030002 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-4-55 Date No. Profile
Survey by Hall Dereniuk Notes N.T. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.	Remarks	
		21	8.8	6.5		32° 13'	630 Cut	190 +00-S
		22	7.5	5.2		33° 25'	587	
		23	6.1	3.8		34° 48'	550	
		24	void			34° 12'	514	
		25	void		7:16	35° 36'	479	
S-9	S-10							

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN ✗

Profile No.____ Notes Red.____ Plotted.____ Job No. 0300.02 Division No.____ F.B. 1510 Pg. 207
X-Sec. No.____ Date____ Date____ Survey BEACH EROSION STUDIES
Notes Chkd.____ Checked____ Survey by DREW ENGR. Noted EDDED Date 8-4-55
No.____ Date____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 180+00		SIGHT ON 185+00
190+00							
T.P. 268 FT R.	11 34	19 49		8 15			
T.P.	1 27	17 34	3 42	16 07			
185+00			0 95	16 39			
7 FT R.			14	15 9			SAND OUTSIDE WALL
100 " "			36	13 7			
200 " "			61	11 2			
221 " "			71	10 2			BRK
T.P. 255 " "	0 79	8 66	9 47	7 87			
		EX	5 1	3 6	31 49	310	
			7 5	1 2	37 01	377	
			10 5	-1 8	43 22	472	
			14 0	-5 3	47 47	551	
			18 0	-9 3	51 18	624	

INSHORE

F.B. 1510 Pg. 208 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E.G.D. Notes E.E.G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L296 907 8-53

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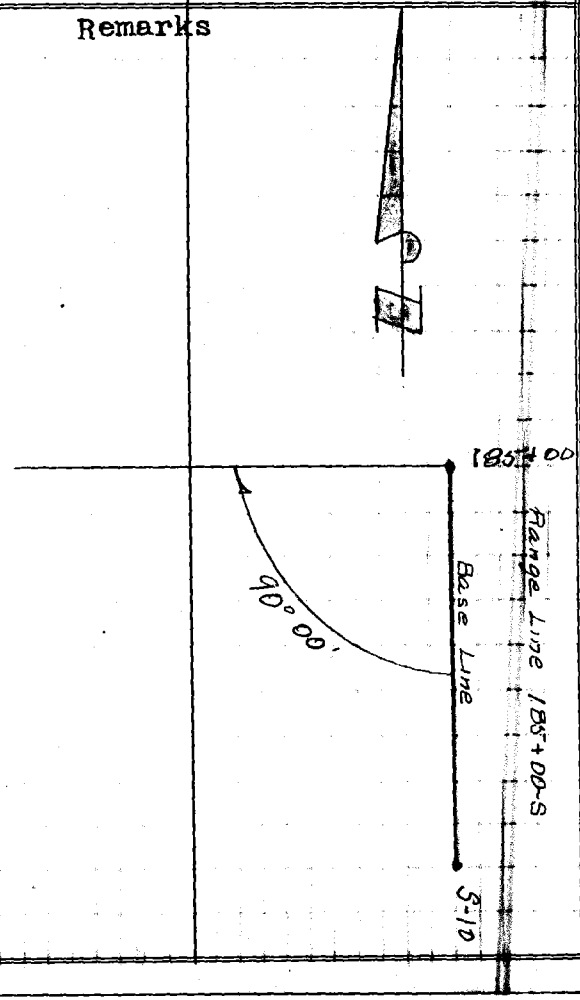
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red_____ Plotted_____ Job No 23066 Division No. 10 F. B. 1570 Pg. 209
No._____ Date_____ Date_____ Survey of Beach Erosion
X-Sec. Notes Chkd_____ Checked_____ Survey by VanDoren Notes J.J.E. Date 8-4-53
No._____ Date_____ Date_____ Map No._____ Index C. Johnson

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:29	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	



5-10
185+00

F. B. 1510 Pg. 210 | Job No. 8300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Van Doren Notes J.J.E. | Notes Chkd. | Checked | X-Sec.

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

761.298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

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

STATION	B. S.	H. I.	F. S.	ELEV.	
First St. & Ave. 07					
	185+00				
	5-10				
	#		Time	Hor. Angle	
	21			90° 00'	
	22			90° 00'	
	23			90° 00'	
	24			90° 00'	
	25		7:34	90° 00'	
					Range Line
					185+00-5

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

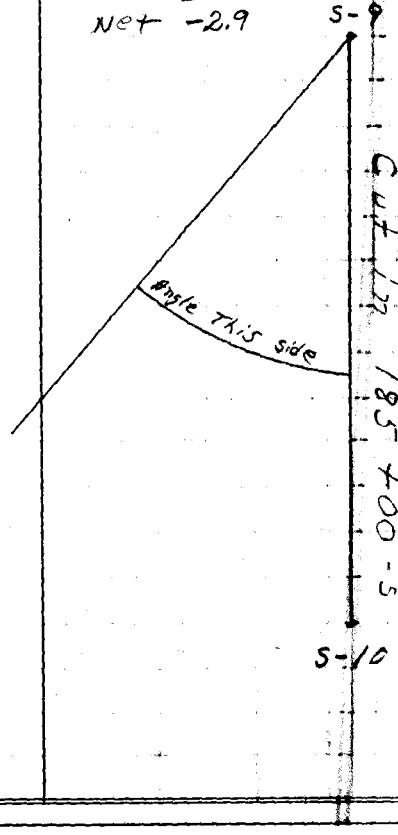
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 230042 Division No. 40 F. B. 7572 Pg. 211
No. Date. Date. Survey at Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by J.A.h Carmichael P.T. Date 8-4-55
No. Date. Date. Map No. Traced J. Johnson Date.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At / Sight On	#	Color	Time	Hor. Ang.
	1	35.2 / 32.3	7:29	77° 57' 2322 ✓
	2	33.7 / 30.8		76° 50' 2137 ✓
	3	32.5 / 29.6		76° 00' 2005 ✓
	4	31.5 / 28.6		75° 00' 1866 ✓
	5	30.5 / 27.6		74° 03' 1749 ✓
	6	29.2 / 26.3		73° 03' 1641 ✓
	7	27.7 / 24.8		72° 05' 1547 ✓
	8	26.7 / 23.8		71° 08' 1463 ✓
	9	25.9 / 23.0		69° 48' 1359 ✓
	10	24.9 / 22.0		68° 12' 1250 ✓
	11	23.1 / 20.2		66° 14' 1135 ✓
	12	21.6 / 18.7		64° 20' 1040 ✓
	13	20.2 / 17.3		63° 15' 992 ✓
	14	18.8 / 15.9		61° 40' 927 ✓
	15	17.6 / 14.7		60° 32' 885 ✓
	16	16.3 / 13.4		59° 32' 850 ✓
	17	15.4 / 12.5		58° 29' 815 ✓
	18	14.5 / 11.6		57° 04' 772 ✓
	19	13.1 / 10.2		55° 40' 732 ✓
	20	11.9 / 9.0		53° 58' 687 ✓

Remarks

Boat +1.0
Zero Adj -.8 ✓
Tide -3.1
Net -2.9



S-9
S-10

76L298 307 8-53

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

Do not extend notes this side of this line.

F. B. 1578 Pg. 212 Job No. 34462 Division No. 10 Notes Red. Date 8-4-55 Plotted Date Checked Date

Survey of Beach Erosion Study Notes R.T. No. Date

Survey by Elan Dersch Notes Chkd. No. Date

Indexed E. C. Johnson Date

Profile X-Sec.

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
		21	10.5 ✓ 7.6		57° 56'	638 ✓	Cut in 185+00-S
		22	9.2 ✓ 6.3		59° 09'	599 ✓	
		23	7.9 ✓ 5.0		78° 30'	565 ✓	
		24	6.6 ✓ 3.7		47 15'	541 ✓	
		25	6.2 ✓ 3.3	7:34	15° 24'	507 ✓	
S-9	S-10						

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line. CVT INX

Profile No. _____ Date _____ X-Sec. No. _____ Date _____

Noted _____ Date _____ Checked _____ Date _____

Job No. C300.02 Division No. 10 F.B. 1510 Pg. 2/9

Survey BREACH EROSION STUDIES Notes ENTERED Date 8-4-55

Survey by ENGLISH Notes C. JOHNSON Date 5-9

Map No. _____ Date _____

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 175+00	SIGHT ON 180+00
185+00						
T.P. 255 FT. R.	11 03	18 90		7 87		
T.P.	389	19 68	3 11	15 79		
180+00			2 60	17 08		
10 FT. R.			22	175		SAND OUTSIDE WALL
100 " "			39	15 81		
130 " "			47	150		BRK
200 " "			89	108		
234 " "			105	92		BRK
T.P. 255 " "	091	8 63	11 96	772	T.P.	
			6 6	2 0	35 14	336
			8 6	0 0	39 91	390
			10 6	-2 0	45 23	471
			12 4	-3 8	48 57	527
			15 3	-6 7	52 49	600

105+60E
180+00.00

F.B. 1510 Pg. 214 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E. E. & G. D. | Notes E. E. & G. D. | Notes Chkd. | Checked | X-Sec.

Index C. Johnson | Date | Date | Date | No.

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

76L298 307 10-51

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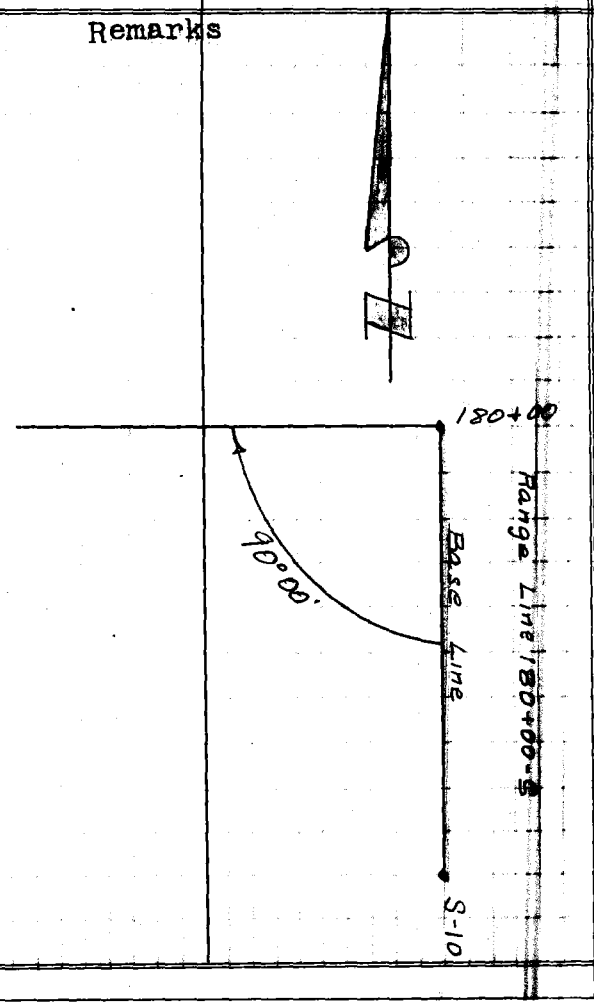
Do not extend notes this side of this line.

Profile Notes Red_____ Plotted_____ Job No. 2302 Division No. 10 F. B. 1870 Pg. 2/5
No.____ Date____ Date____ Survey of Beach Erosion
X-Sec. Notes Chkd.____ Checked____ Survey by VanDeren Notes J.J.E. Date 8-4-53
No.____ Date____ Date____ Map No.____ Maps Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:48	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 08'	
	18			90° 00'	
	19			90° 00'	
	20			90° 08'	



00+08 S-10

76L298 307 8-53

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

Do not extend notes this side of this line.

F. B. 1570 Pg. 2/6 Job No. 830002 Division No. 10 Notes Red. Date Plotted No. Profile
Survey of Beach Erosion Notes Date No. X-Sec.
Survey by Van Deren Notes J.J.E. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst At.	Sight on	#		Time	Hor. Angle		
		21			90° 00'		
		22			90° 00'	Range Line 180+00-S	
		23			90° 00'		
		24		7:53	90° 00'		
180+03	S-10						

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 300662 Division No. 10 F.B. 1570 Pg. 217
No. X-Sec. Date Date Survey of Beach Erosion Study
Notes Chkd. Checked Survey By Van Dorn Hydro. A.T. Date 8-4-55
No. Date Date Map No. Traced Johnson Date

STATION	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
Inst. Sight on							Boat +1.0
							Zero Adj -.8
							Tide -3.4
							Net -3.2
	1	34.8	31.6	7:48	68° 17'	2122	170+00-S
	2	33.4	30.2		67° 18'	2032	
	3	32.8	29.6		66° 00'	1921	
	4	31.9	28.7		64° 57'	1848	
	5	30.4	27.2		63° 22'	1735	
	6	30.3	27.1		61° 47'	1640	
	7	29.4	26.2		59° 50'	1522	Cut in 180+00-S
	8	27.9	24.7		58° 00'	1430	
	9	26.3	23.1		56° 03'	1338	
	10	25.2	22.0		53° 50'	1243	
	11	23.5	20.3		51° 02'	1129	Angle this side
	12	22.1	18.9		48° 46'	1052	
	13	20.7	17.5		47° 14'	1001	
	14	19.2	16.0		45° 10'	937	
	15	17.7	14.5		43° 22'	882	
	16	16.2	13.0		41° 31'	830	
	17	15.4	12.2		39° 40'	782	S-9
	18	13.3	10.1		38° 00'	737	
	19	12.7	9.5		35° 25'	673	
	20	11.4	8.2		34° 12'	648	

S-9
170+00

76L298 307 8-53

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Do not extend notes this side of this line.

F. B. 1570 Pg. 21 Job No. 3e602 Division No. 10 Notes Red Date 8-4-55 Plotted Date No. Profile
Survey of Beach Erosion Study Date X-Sec.
Survey by Van Deren Notes Chkd. Checked
Indexed C. Johnson Date Notes Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	21	9.5 ✓ 6.3		31° 35'	586' ✓	Cut in 180+00-S
	22	7.8 ✓ 4.6		30° 14'	558' ✓	
	23	VOID ✓		29° 30'	500' ✓	
	29	VOID ✓	7:53	25° 36	462 ✓	
170+00-S	S-9					

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. CUT IN 4

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 180+00	SIGHT ON 175+00
180+00						
T.P. 255 FT R.	10 90	18 62		772		
T. P.	3 53	19 79	2 36	1626		
175+00			206	17 73	LET. CONC. WALK	
55 FT. R.			23	175		SAND OUTSIDE WALL
22 " "			24	174		BRK
100 " "			46	152		
146 " "			68	130		BRK
195 " "			100	98		"
200 " "			103	95		
T.P. 222 " "	0 82	8 62	11 95	784		
		8	53	3 47	29° 25′ 282	
			79	0 8	35 11 352	
			102	-1 5	40 39 429	
			143	-5 6	48 08 558	
			180	-9 3	53 05 666	

Instrore

Profile
Notes Red Plotted Job No. 03000.02 Division No. F.B. 4510 Pg. 219
No. Date Date Survey BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Notes S.E.D. ED Date 8-4-55
No. Date Date Map No. Notes G. Tabares Date

F.B. 1510 Pg. 120 Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 10-51

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76L298 307 8-53

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Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 23802 Division No. 10 F. B. 1570 Pg. 22

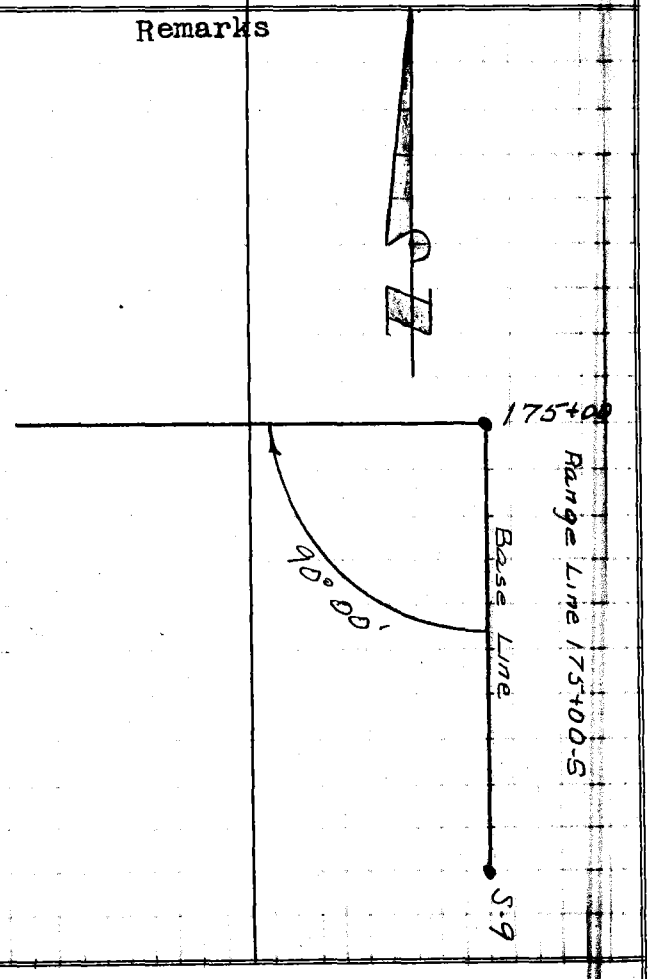
No.____ Date____ Date____ Survey of Beach Erosion

X-Sec. Notes Chkd.____ Checked____ Survey by Van Deren Notes J.E. Date 8-4-57

No.____ Date____ Date____ Map No.____ Traced T. Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
nst. Sight	#	Color	Time	Hor. Ang.	
t On	1		8:05	90°00'	
	2			90°00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

S-9
175+00



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F. B. 1570 Pg. 122 Job No. 83000.02 Division No. 10 Notes Red. Date Notes Chkd. Date Plotted Date Checked Date
Survey of Beach Erosion Notes J. J. E. Profile No. X-Sec. No.
Survey by Van Deren
Indexed C. Johnson Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst at	Sight on	#		Time	Hor. Angle		
		21		8:10	90° 00'		
						Range Line 175+00-S	
175+00.	S-9						

76L298 307 8-53

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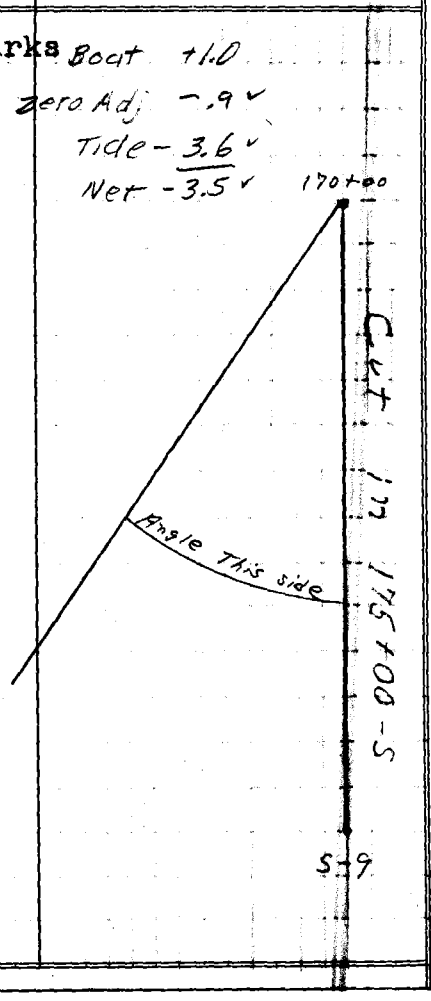
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 2202.2 Division No. 10 F.B. 1510 Pg. 123
No. Date. Date. Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked. Survey By H.L. Beach, R.T. Date 8-4-55
No. Date. Date. Map No. Drawn By Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	33.7 30.2	8:05	75° 47'	1974	Boat +1.0
	2	33.2 29.7		75° 32'	1938	Zero Adj. -.9
	3	32.1 28.6		75° 01'	1868	Tide -3.6
	4	31.2 27.7		74° 03'	1749	Net -3.5
	5	30.2 26.7		73° 21'	1672	
	6	29.7 26.2		72° 31'	1587	
	7	29.7 26.2		71° 24'	1486	
	8	28.2 24.7		70° 05'	1380	
	9	26.3 22.8		68° 11'	1249	
	10	25.0 21.5		66° 45'	1164	
	11	23.3 19.8		65° 00'	1072	
	12	21.5 18.0		62° 57'	979	
	13	19.2 15.7		61° 02'	903	
	14	17.1 13.6		59° 05'	835	
	15	15.7 12.2		56° 53'	767	
	16	14.7 10.7		55° 15'	721	
	17	12.6 9.1		52° 40'	656	
	18	11.2 7.7		50° 28'	606	
	19	9.3 5.8		48° 44'	570	
	20	8.3 4.8		46° 32'	528	



180+00-S

S-9

F. B. 1510 Pg. 224 Job No. 2160.03 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-4-55 Date No.

Survey by Van Dercn Notes R.T. Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight	#	Color	Time	Hor. Ang.	
At OH	21	3.8	8:10	49	Cut 17
170+00-S					175+00-S
S-9					

76L298 307 8-53

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

Do not extend notes this side of this line. CUT IN ✱

STATION	B. S.	H. I.	F. S.	ELEV.	INST AT 175+00	SIGHT ON 170+00
175+00						
T.P. 222 FT. R.	11 20	19 04		784		
T. P.	4 20	19 39	385	1519		
170+00			203	1736		CONC. WALK
12 FT. R.			22	1712		SAND OUTSIDE OF WALL
40 " "			21	1731		BRK
100 " "			55	1391		
181 " "			97	971		BRK.
T.P. 200 " "	0 72	8 98	1163	776		
			40	45	25° 29'	238 ✓
			68	17	30 57	300 ✓
			91	-0 6	35 38	358 ✓
			109	-2 4	41 28	442 ✓
			138	-5 3	46 28	526 ✓
			170	-8 5	49 49	592 ✓

Instore

Profile
Notes Red _____ Platted _____ Job No. 2300.02 Division No. _____ F.B. 1510 Pg. 22
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd _____ Checked _____ Survey by ENGLISH Notes C.O.E. ED Date 8-4-55
No. _____ Date _____ Date _____ Map No. _____ Date _____

F.B. 1510 PG. 226 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-81

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ENGINEERING BLDG.

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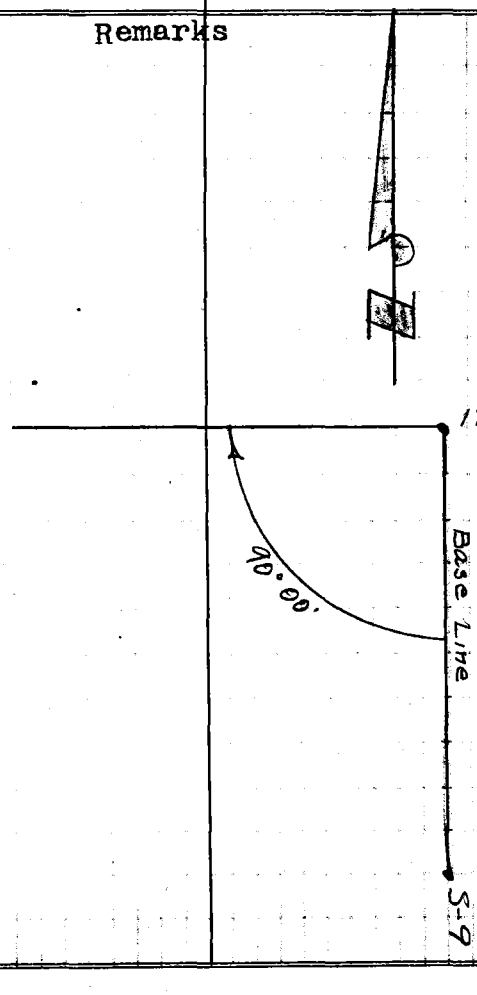
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2360.02 Division No. 12 F. B. 1510 Pg. 127
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Dereen Notes J.L.E. Date 8-4-53
No. Date Date Map No. Mtzd. C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
	1		8:21	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	

S-5

170+00



F. B. 1510 Pg. 125 Job No. 0300.02 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.J.E. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
Instr. Set up 5,644.07	4 21	Time 8:26	Hor. Angle 50° 00'	

170+00

5-9

Range Line 170+00-S

76L298 307 10-51

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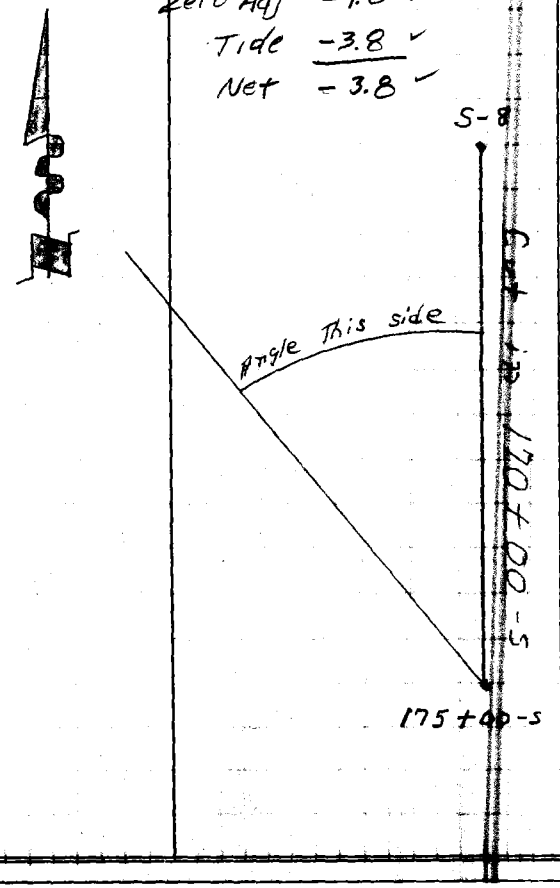
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile
Notes Rod _____ Platted _____ Job No. 2208.83 Division No. 40 F.B. 3510 Pg. 229
No. _____ Date _____ Survey of Beach Erosion Study Date 8-4-53
X-Sec. _____ Date _____ Survey by Ward, Darnell, Ring & Johnson, R.E. & L.S.
Notes Chkd _____ Checked _____ Survey by _____ Date _____
No. _____ Date _____ Map No. _____ Inspected _____ Date _____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight on	#	Color	Time	Hor. Ang.		
	1	31.5 27.7	8:21	73° 31'	1690 ✓	Boat +1.0
	2	30.5 26.7		72° 45'	1610 ✓	Zero Adj -1.0 ✓
	3	29.7 25.9		71° 51'	1525 ✓	Tide -3.8 ✓
	4	28.6 24.8		70° 39'	1424 ✓	Net -3.8 ✓
	5	27.7 23.9		69° 22'	1328 ✓	
	6	26.7 22.9		67° 57'	1234 ✓	
	7	24.6 20.8		66° 20'	1141 ✓	
S-8	8	23.4 19.6		65° 08'	1079 ✓	
	9	22.0 18.2		63° 30'	1003 ✓	
	10	20.7 16.9		61° 55'	937 ✓	
	11	19.7 15.9		60° 38'	889 ✓	
	12	18.2 14.4		58° 59'	832 ✓	
	13	17.1 13.3		57° 18'	779 ✓	
	14	16.0 12.2		56° 10'	746 ✓	
	15	14.3 10.5		54° 05'	690 ✓	
	16	13.2 9.4		52° 53'	661 ✓	
	17	12.6 8.8		51° 11'	622 ✓	
	18	11.7 7.9		49° 24'	583 ✓	
	19	10.4 6.6		47° 30'	546 ✓	
	20	9.1 5.3		45° 15'	504 ✓	



76L298 307 10-51

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

Do not extend notes this side of this line.

F.B. 1512 Pg. 230 Job No. Division No. 10 Notes Red Date 8-4-55 Plotted Date Checked Date

Survey of Beach Erosion Study Notes K.T. Date

Survey by Van Deren Notes Date

Indexed C. Johnson Date

Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	7.6 3.8	8 26	43° 51'	480'	

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

F. B. 1670 Pg. 230A

August 8, 1955

Standard Time

Time	Tide
5:00	1.0
5:30	0.9
6:00	1.0
6:30	1.3
7:00	1.6
7:30	2.0
8:00	2.4
8:30	2.8
9:00	3.3
9:30	3.9
10:00	4.2
10:30	4.5
11:00	5.0

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

Do not extend notes this side of this line.

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3093 247 4.53

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726 LOS ANGELES COUNTY
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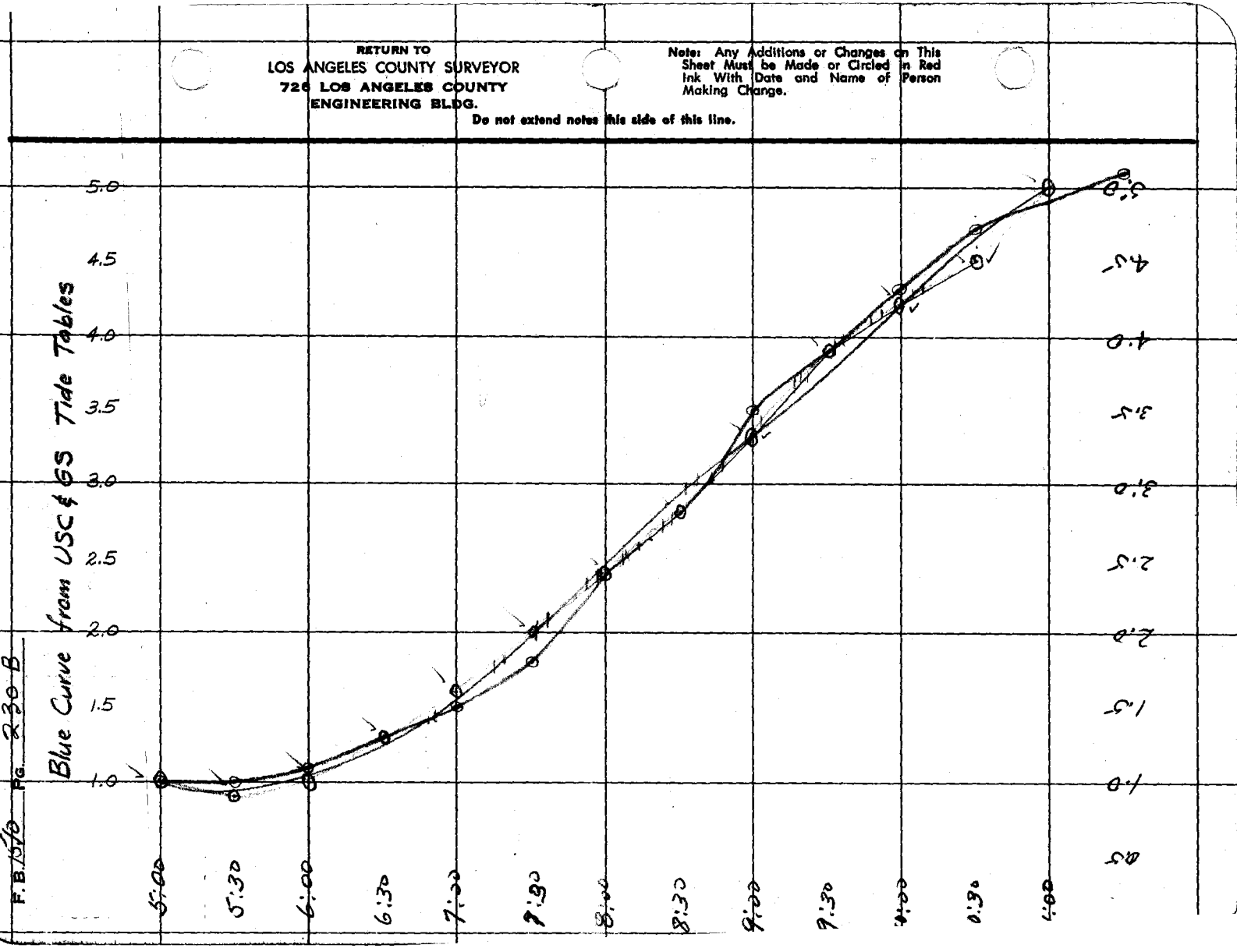
Do not extend notes this side of this line.

F.B. 1570 PG. 230 B

Blue Curve from USC & GS Tide Tables



76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. Cut-in X

Profile Notes Red_____ Plotted_____ Job No. 2300.02 Division No._____
No._____ Date_____ Date_____ Survey DEL REY BEACH EROSION STUDIES
X-Sec. Notes Chkd_____ Checked_____ Survey by ENGLISH Notes RED ED Date 8-8-55
No._____ Date_____ Date_____ Map No._____ Bnd Obj Tolerance Date 3-8

F.B. 1510 Pg. 231

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 170+00	Sight on 165+00
170+00						
T.P. 200 FT. R.	1068	18 44		776		
T. P.	7 86	22 83	3 47	1497		
165+00	3 06	20 34	5 52	17 28	S-8 ELEV. 17.285, L & T. IN CONC. WALK	
6 FT. R.			33	170		
20 " "			34	169		BRK
48 " "			54	149		BRK
100 " "			75	128		
160 " "			108	95		BRK
[illegible]171 " "	279	11 35	11 78	856		
200 " "			55	58		
T.P. 239 " "	1 26	5 07	7 54	381		
			4 0	1 1	30° 15' 292	
			6 0	-0 9	35 28 356	
			12 4	-7 3	47 12 540	
			16 5	-11 4	55.02 715	

S. 165+00

Instore

F.B. 1510 PG. 232 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

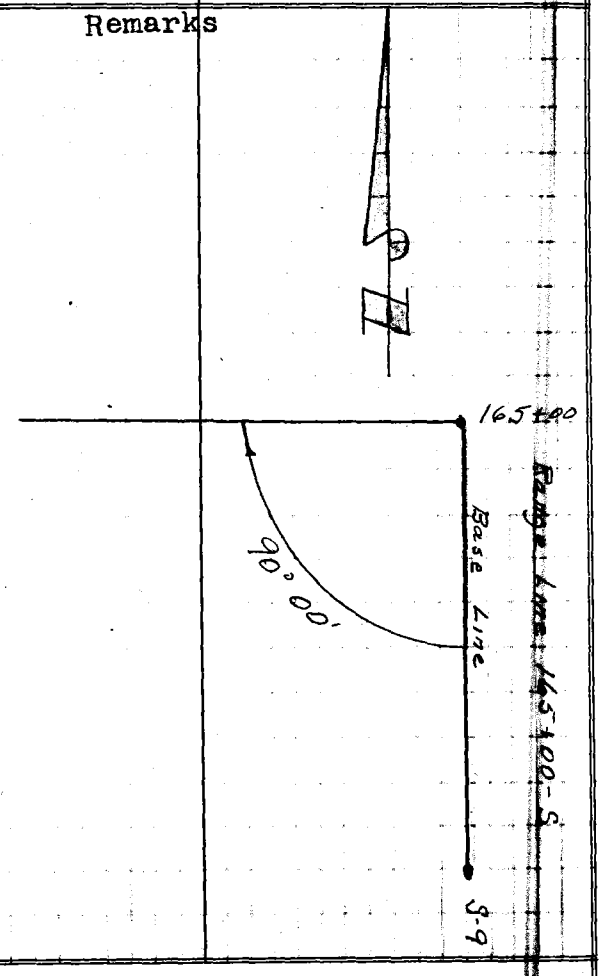
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red Plotted Job No 4310-01 Division No. 10 F. B. 1570 Pg. 233
No. Date 8-8-55 Date Survey of Beach Erosion
X-Sec. Notes Chkd Checked Survey by VanDeren Notes J.V.E. Date 8-8-55
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:42	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	20			90°	

S-9 165+00



76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 234 Job No. 23000X Division No. 10 Notes Red. Date Plotted Date No. Profile
Survey of Beach Erosion Notes Date Checked Date No. X-Sec.
Survey by Van Dyer Notes Chkd. Date
Indexed C. Johnson

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. AT. sight on	#		time	Horiz angle		
	21			90°		
	22			90°	Range line	160+00 ℄
	23			90°		
	29		6:45	90°		
160 TOC						
S-8						

76L298 307 4-50

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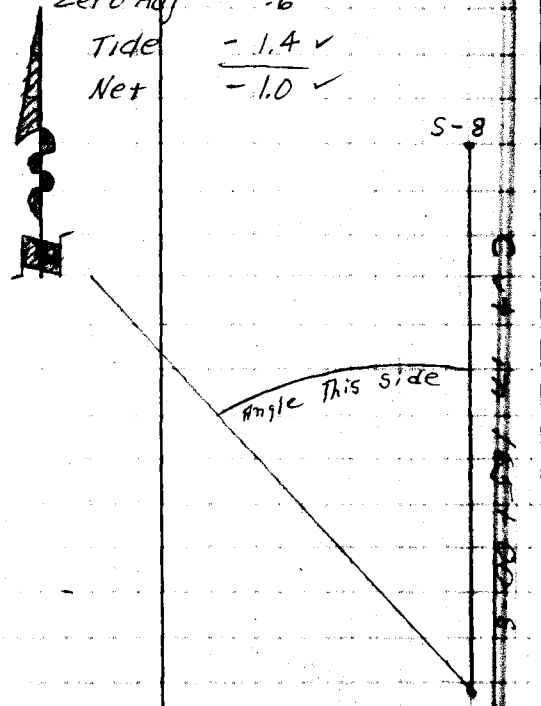
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8370 Engineering Division No. 10 F. B. 1570 Pg. 23
No.____ Date____ Date____ Survey of Beach Erosion Survey
X-Sec. Notes Chkd____ Checked____ Survey by Hydro Design Notes R.T. Date 8-8-55
No.____ Date____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At : On	#	Color	Time	Hor. Ang.		Remarks
	1	28.7 ✓ 27.7	6:42			Boat +1.0
	2	28.5 ✓ 27.5		72° 51'	1630 ✓	Zero Adj −.6 ✓
	3	27.9 ✓ 26.9		72° 32'	1589 ✓	Tide −1.4 ✓
	4	27.6 ✓ 26.6		72° 15'	1562 ✓	Net −1.0 ✓
	5	26.5 ✓ 25.5		71° 15'	1473 ✓	
	6	26.0 25.0		70° 31'	1421 ✓	
	7	25.3 ✓ 24.3		70° 01'	1375 ✓	
S-8	8	24.5 23.5		69° 05'	1308 ✓	
	9	24.2 23.2		68° 29'	1266 ✓	
	10	23.3 22.3		67° 29'	1206 ✓	
	11	22.4 ✓ 21.4		66° 19'	1140 ✓	
	12	21.4 ✓ 20.4		65° 03'	1075 ✓	
	13	20.2 ✓ 19.2		63° 42'	1012 ✓	
	14	19.4 ✓ 18.4		62° 15'	950 ✓	
	15	18.3 ✓ 17.3		61° 22'	916 ✓	
	16	17.0 ✓ 16.0		59° 48'	859 ✓	
	17	16.2 ✓ 15.2		58° 42'	822 ✓	
	18	14.7 ✓ 13.7		57° 31'	785 ✓	
	19	14.1 ✓ 13.1		55° 55'	739 ✓	
	20	12.9 ✓ 11.9		55° 03'	715 ✓	



S-8 170+00

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. 1510 Pg. 236

Survey of Beach Erosion Study Job No. 23082 Division No. 10 Notes Red. Date 8-8-55 Plotted Date No.

Survey by Ken Oeren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.			Profile
INST. AT.	Sight on	#	Color		Time	Hor Ang.		Remarks	
		21	12.1 ✓	11.1		53° 40'	680 ✓	Cut in	165+00.5
		22	11.4 ✓	10.4		52° 33'	653 ✓		
		23	10.3 ✓	9.3		50° 25'	605 ✓		
170+00	S-8	~~24~~	9.6 ✓	8.6	6:45	49° 03'	576 ✓		

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. Cut-in ✗

Profile Notes Rad____ Plotted____ Job No 0300.02 Division No.____ F.B. 1510 Pg. 257
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd____ Checked____ Survey by ENGELST Notes E.D. & E.D. Date 8-8-55
No.____ Date____ Date____ Map No.____ Added Tabulation Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 165+00		Sight on 160+00
165+00							
T.P. 171 Ft R.	2 79	11 35	11 78	8 56			
T.P.	6 12	17 36	0 11	11 24			
160+00			0 05	17 31			CONC. WALK
6 Ft R.			0 8	16 6			SAND OUTSIDE OF WALL
23 " "			1 4	16 0			BRK
48 " "			2 8	14 6			BRK
91 " "			4 4	13 0			"
100 " "			5 1	12 3			
167 " "			9 6	7 8			BRK
T.P. 193 " "	0 45	6 01	11 80	5 56			
			3 6	2 4	25° 43′	241	
			5 7	0 3	31 04	301	
			7 6	-1 6	36 08	365	
			9 8	-3 8	41 02	435	
			13 2	-7 2	46 39	530	
			16 0	-10 0	50 44	612	

5. Instore
Y 6400

F.B. 1510 PG. 238 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by T.E.G. Notes E.E.E G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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76L298 307 8-53

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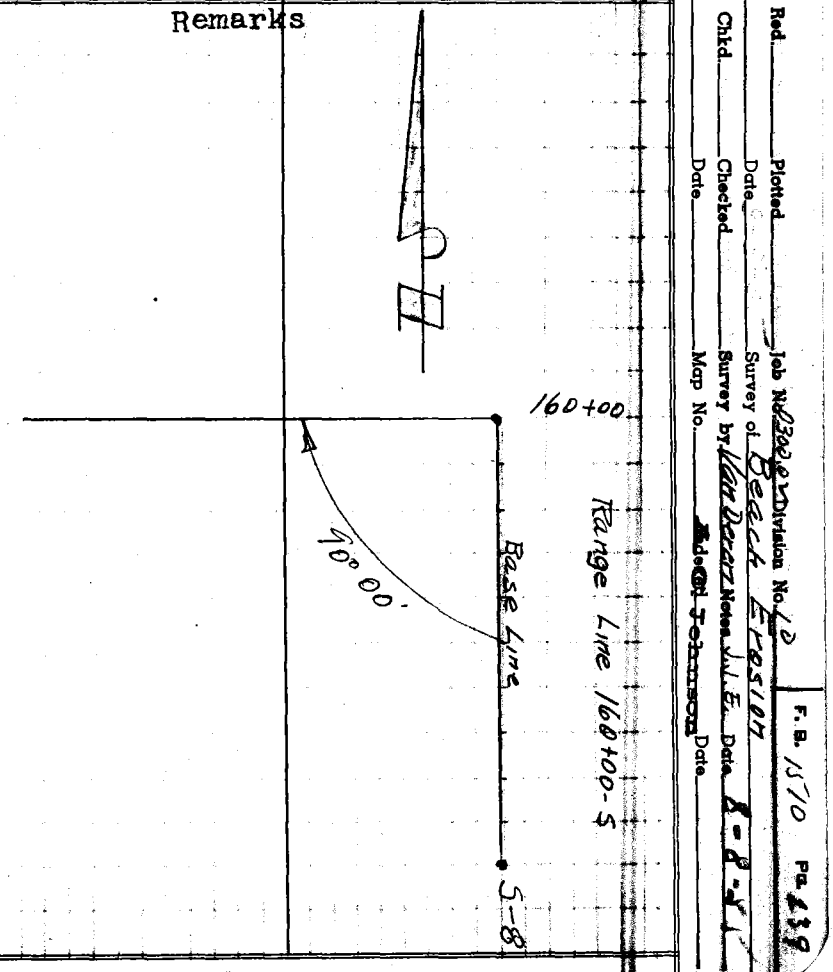
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2392 Division No. 2 F. B. 1570 Pg. 119
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Wm Bacon Notes J.L.E. Date 8-8-41
No. Date Date Map No. Added Johnson Date

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



F.B. 1510 Pg. 240 Job No. 03000V Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At 160+08				
Sight On S-8				
	# 21		Time 7:04	Hor. Angle 80°

Range Line 160+00-S

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Lab No. 1800 Division No. 12 F. B. 7320 Pg. 24

No.____ Date____ Date____ Survey of Beach Erosion Study

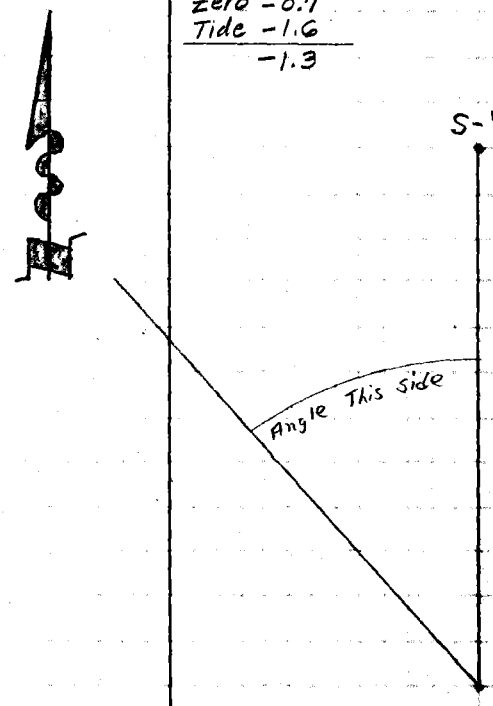
X-Sec. Notes Chkd.____ Checked____ Survey by Wash Rivers, R.T. Date 8-8-55

No.____ Date____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
						1	28.5 ✓ 27.2	7:00	72° 46'	1612 ✓	Boat +1.0 Zero -0.7 Tide -1.6 -1.3
						2	27.0 ✓ 25.7		72° 19'	1565 ✓	
						3	27.0 ✓ 25.7		71° 44'	1515 ✓	
						4	26.5 ✓ 25.2		71° 08'	1463 ✓	
						5	25.5 ✓ 24.2		70° 22'	1402 ✓	
						6	24.9 ✓ 23.6		69° 25'	1331 ✓	
						7	23.7 ✓ 22.4		68° 16'	1254 ✓	
						8	22.9 ✓ 21.6		67° 04'	1182 ✓	
						9	21.8 20.5		65° 48'	1113 ✓	
						10	21.4 ✓ 20.1		64° 50'	1064 ✓	
						11	20.2 ✓ 18.9		63° 32'	1004 ✓	
						12	19.1 ✓ 17.8		62° 21'	954 ✓	
						13	17.7 ✓ 16.4		60° 29'	883 ✓	
						14	15.9 ✓ 14.6		58° 09'	805 ✓	
						15	15.2 ✓ 13.9		56° 19'	750 ✓	
						16	13.9 ✓ 12.6		55° 05'	716 ✓	
						17	12.9 ✓ 11.6		53° 53'	685 ✓	
						18	12.0 ✓ 10.7		52° 26'	650 ✓	
						19	10.9 ✓ 9.6		50° 49'	613 ✓	
						20	9.8 ✓ 8.5		48° 34'	566 ✓	

S-7

S-8



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date 8-8-45 Notes Chkd. Date

Job No 4390.01 Division No. 10

Survey of Beach Erosion Study

Survey by Van Dersen Notes Rite

Indexed C. Johnson Date

Fd 244

STATION	B. S.	H. I.	F. S.	ELEV.		
INST. AT. sight on	#	Color	Time	Hor Ang.		
	21	88 - 7.5	7:04	46° 15'	522 ↓ Cut in	160+00-S
S-8						
S-7						

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line. Cut-in ⊿

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 160+00	Sight on 152+50
160+00				556		
T.P. 193 FT. R.	902	1458				
T.P.	884	1854	488	970		
152+50			34	15 1		
29 FT LEFT			04	18		
88 " "			+57	24 2	BRK	
100 " "			+68	25 3		
111			+75	26 0	SAND AT EDGE OF WALK	
43 FT. RIGHT			50	13 5		BRK
100 " "			82	10 3		
144 " "			111	7 4		BRK
TP 157	0 50	725	1179	675		
			47	26	116° 37' 224	
			80	-07	122 39 313	
			130	-57	131 34 461	
			180	-107	38 33 598	

Instore
S.
152+50

Profile
Notes Rod _____ Platted _____ Job No. 0300.02 Division No. 10 F.B. 5510 Pg. 293
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES
X-Sec. _____ Date _____ Survey by ENGLISH Notes 6.2.0 Date 8-8-55
Notes Chkd _____ Checked _____ Map No. _____ Indexed Johnson Date _____
No. _____ Date _____ Date _____

F.B. 1510 PG. 249 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Road Fracion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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

Profile No. | Notes Red. | Plotted | Job No. | Division No. 10 | F. B. 1518 | Pg. 143

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

Date | Survey by Van Deren | Notes V.N.E. | Date 8-8-55

Date | Map No. | Indexed G. Johnson | Date

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STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
East Sign On	#	Color	Time			
	1		7:15		90°	
	2				90°	
	3				90°	
	4				90°	
	5				90°	
	6				90°	
	7				90°	
	8				90°	
	9				90°	
	10				90°	
	11				90°	
	12				90°	
	13				90°	
	14				90°	
	15				90°	
	16				90°	
	17				90°	
	18				90°	
	19				90°	
	20				90°	

S-8

152+50

Range Line 152+50-S

Base Line

S-8

90°00'

76L298 307 8-53

76L298 307 8-53

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F.B. 1870 Pg. 196 Job No. 2300.02 Division No. 16 Notes Red. Date Notes Chkd. Date Plotted Date Checked Date Profile No. X-Sec. No.

Survey of Beach Erosion
Survey by Van Deren Notes Date
Indexed C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21		7:19	90°	
	22			90°	Range Line 152+50-S
152+50 S-8					

76L298 307 4-50

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Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No 65622 Division No. 10 F. B. 1510 Pg. 642
No.____ Date____ Date____ Survey of Beach Erosion Control Study
X-Sec. Notes Chkd____ Checked____ Survey by Wm Dere Notes R.T. Date 8-5-50
No.____ Date____ Date____ Map No.____ Traced C. Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At On		# Color	Time	Hor. Ang.			
	1	27.6 ✓ 26.2	7:15	69° 42'	~~+352~~ ✓	1487	Boat +1.0
	2	27.4 ✓ 26.0		69° 00'	~~+303~~ ✓	1433	Zero Adj -.6 ✓
	3	26.4 ✓ 25.0		68° 12'	~~+250~~ ✓	1375	Tide -1.8 ✓
	4	25.6 ✓ 24.2		66° 47'	~~+166~~ ✓	1283	Net -1.4 ✓
	5	24.8 ✓ 23.4		65° 58'	~~+121~~ ✓	1233	
	6	22.7 ✓ 21.3		64° 12'	~~+034~~ ✓	1137	
	7	22.4 ✓ 21.0		63° 22'	~~997~~ ✓	1097	
	8	21.0 ✓ 19.6		62° 01'	~~941~~ ✓	1035 ✓	
	9	19.4 ✓ 18.0		60° 11'	~~872~~ ✓	959 ✓	
	10	18.7 17.3		58° 34'	~~818~~ ✓	900 ✓	
	11	17.6 ✓ 16.2		56° 23'	~~752~~ ✓	827 ✓	
	12	16.6 ✓ 15.2		54° 35'	~~703~~ ✓	773 ✓	
	13	15.4 ✓ 14.0		53° 10'	~~668~~ ✓	735 ✓	
	14	14.4 ✓ 13.0		51° 48'	~~635~~ ✓	699 ✓	
	15	13.3 ✓ 11.9		50° 22'	~~604~~ ✓	664 ✓	
	16	12.8 ✓ 11.4		49° 23'	~~583~~ ✓	641 ✓	
	17	11.4 ✓ 10.0		47° 45'	~~550~~ ✓	605 ✓	
	18	10.7 ✓ 9.3		45° 32'	~~509~~ ✓	560 ✓	
	19	9.7 ✓ 8.3		43° 58'	~~482~~ ✓	530 ✓	S-8 is 165+00
	20	8.5 ✓ 7.1		41° 55'	~~449~~ ✓	494	

147+50

S-8

147+50

Cut in 152+50-S

Angle This side

S-8

76L298 307 4-50

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F.B. 1510 Pg. 149 Job No. 3P0.02 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-8-55 No. X-Sec.
Survey by Van Deren Notes A.T. Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst AT	Sight on	#	Color	Time	Hor Ang.		Remarks
		21	2.9 ✓ 6.5		41° 03	~~435~~ ✓ 479	Cut in 152+50-S
		22	2.4 ✓ 6.0	7:19	40° 05	~~421~~ ✓ 463	
147+50-S	S-8					distances computed on 550' base - plot satisfactorily and agree with adjacent ranges	Plotter assumes that range actually was run at Sta 153+00S, not at 152+50 S since break in even stationing occures here.
						~~distances~~ computed on 500' base - do not plot satisfactorily	

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Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 142+50	Sight on 147+50
T.P. 152+50						
157 FT. R.	11 95	18 70		6 75		
T. P.	7 94	22 98	3 66	15 02		
147+50			7 2	15 8		
15 FT. LEFT			6 2	16 8	BRK.	
72 " "			0 0	23 0		
100 " "			+2 8	25 8		
110 " "			4 3 7	26 7	BRK.	
118 " "			+3 8	26 8	SAND AT EDGE OF WALK	
35 FT RIGHT			8 4	14 6		BRK
67 " "			9 0	14 0		BRK
100 " "			11 0	12		
166 " "			17 4	5 6		BRK
T.P. 166 " "	0 75	6 38	17 35	5 63		
		4 -	4 2	2 2	23° 23'	216
			6 5	-0 1	29 19	280
			8 6	-2 2	34 27	343
			11 4	-5 0	39 04	406
			14 5	-8 1	45 44	513
			17 5	-11 1	49 42	590

Instore
S. 147+50

Profile
Notes Red _____ Plotted _____ Job No. 8300.02 Division No. V
No. _____ Date _____ Date _____ Survey of Drainage Date 8-8-55
X-Sec. Notes Chkd _____ Checked _____ Survey by Engineering Notes EE & LD
No. _____ Date _____ Date _____ Map No. _____ Indexed J. Johnson Date _____

F.B. 15/0 Pg. 142

F.B. 1510 PG. 150 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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76L298 307 8-53

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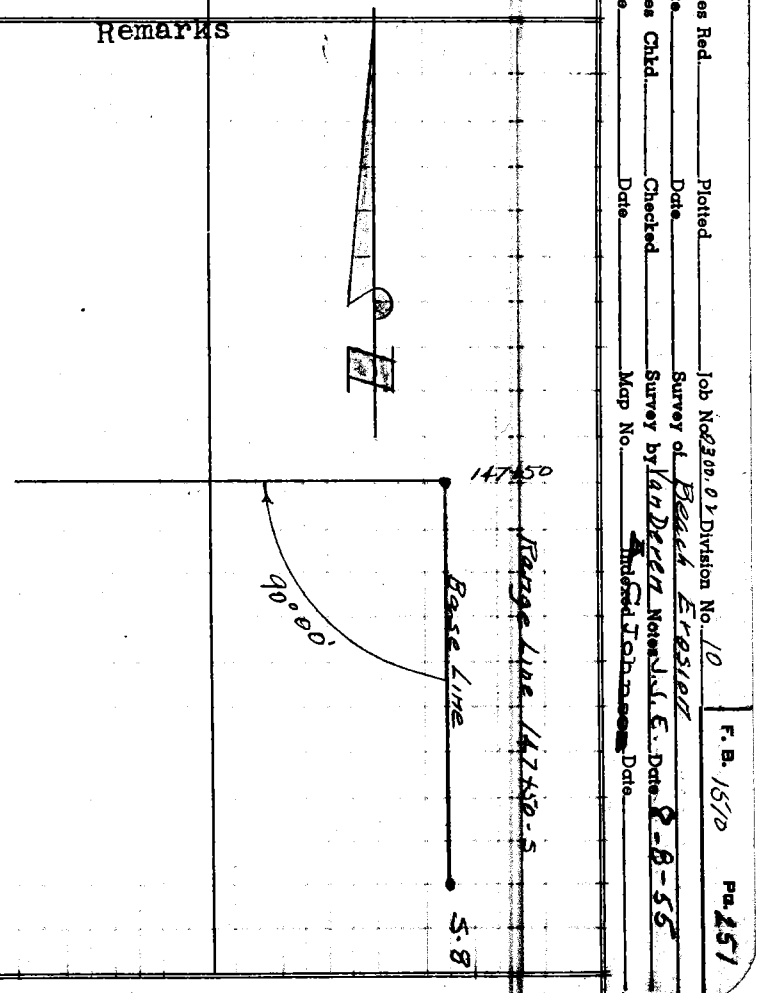
Profile Notes Red. Plotted Job No. 2320.01 Division No. 10 F. B. 1570 Pg. 257
No. Date Survey of Beach Erosion Notes J. E. Date 2-8-55
X-Sec. Notes Chkd. Checked Survey by VanDeren Traced J. Johnson Date
No. Date Date Map No. Date

STATION At	Inst. Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
		1		7:32	90°
		2			90°
		3			90°
		4			90°
		5			90°
		6			90°
		7			90°
		8			90°
		9			90°
		10			90
		11			90°
		12			90°
		13			90°
		14			90°
		15			90°
		16			90°
		17			90°
		18			90°
		19			90°
		20			90°

Remarks



5-8
147+50

F.B. 1570 Pg. 252 Job No. 030002 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

75L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sta. On	#	Color	Time			
147+50-5						
5-8	21		7:37		90°	Range Line
						147+50-5

76L298 307 4-50

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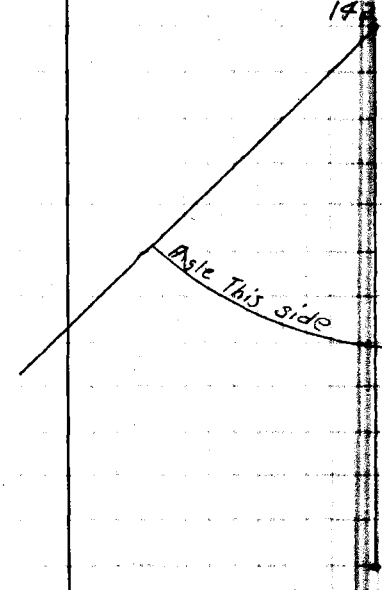
Profile Notes Red. Plotted Job No. 2282-2 Division No. 10 F. B. 1572 Pg. 23
No. Date Date Survey of Beach Erosion Notes T.T. Date 8-8-55
X-Sec. Notes Chkd Checked Survey by John Beach Notes T.T. Date 8-8-55
No. Date Date Map No. Traced J. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On		# Color	Time	Hor. Ang.		Remarks
	1	30.6 29.0	7:32	74° 44'	1832 ✓	Boat +1.0
	2	29.9 28.3		74° 08'	1759 ✓	Zero Adj −.6 ✓
	3	29.2 27.6		73° 29'	1683 ✓	Tide −2.0 ✓
	4	28.4 26.8		72° 25'	1578 ✓	Net −1.6 ✓
	5	27.5 25.9		71° 35'	1502 ✓	
	6	27.0 25.4		70° 45'	1432 ✓	
	7	25.6 24.0		69° 36'	1344 ✓	
S-8	8	24.7 23.1		68° 17'	1255 ✓	
	9	23.7 22.1		66° 56'	1174 ✓	
	10	22.5 20.9		65° 36'	1102 ✓	
	11	21.2 19.6		63° 36'	1007 ✓	
	12	20.1 18.5		61° 52'	935 ✓	
	13	18.9 17.3		60° 07'	870 ✓	
	14	18.2 16.6		59° 01'	833 ✓	
	15	17.0 15.4		57° 40'	790 ✓	
	16	16.5 14.9		55° 53'	738 ✓	
	17	14.9 13.3		53° 58'	687 ✓	
	18	13.2 11.6		51° 17'	624 ✓	
	19	11.2 9.6		48° 17'	561 ✓	
	20	10.2 8.6		45° 41'	512 ✓	



142+50-S

76L298 307 4-50

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F. B. 1570 Pg. 259 | Job No. 0302-02 Division No. 10 Notes Red. Plotted Profile
Survey of Rock Erosion Study Date 8-8-55 Date No.
Survey by Van Deren Notes PT Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst at	Sight on	#	Color	Time	Hor. Ang.	Remarks	
		21	5.2 3.6	7:37	36° 48'	374' cut in 147+50-S	
142+50-S	S-8						

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 137+50	Sight on 142+50
147+50						
T.P. 166 Ft. R.	17 99	23 62		563		
T.P. 1	3 98	23 01	459	1903		
142+50			73	157		
35 Ft Left			60	170	BOTTOM SLOPE	
77 " "			00	230		
100 " "			+40	270		
112 " "			+59	289	BRK	
124 " "			+69	299	SAND AT EDGE OF WALK	
44 Ft Right			83	147		BRK.
100 " "			127	103		
134 " "			151	79		
T.P. 162 " "	1 99	7 09	17 41	560		
			4 9	2 2	23° 09'	214
			7 7	-0 6	30 17	292
			13 4	-6 3	41 27	442
			18 0	-10 7	48 10	559

Inshore
S. 142+50

Profile
No. _____ Notes Red _____ Plotted _____ Job No. 8360.02 Division No. 10 F.B. 7510 Pg. 25
X-Sec. _____ Date _____ Date _____ Survey of BEACH ERO.00 STUDY
No. _____ Notes Chkd _____ Checked _____ Survey by ENGLISH Noted CEB EED Date 8-8-55
Date _____ Date _____ Map No. _____ Date _____

F.B. 1510 PG. 256 Job No. 0300.02 Division No. 10 Notes Red. Plotted. Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 507 10-51

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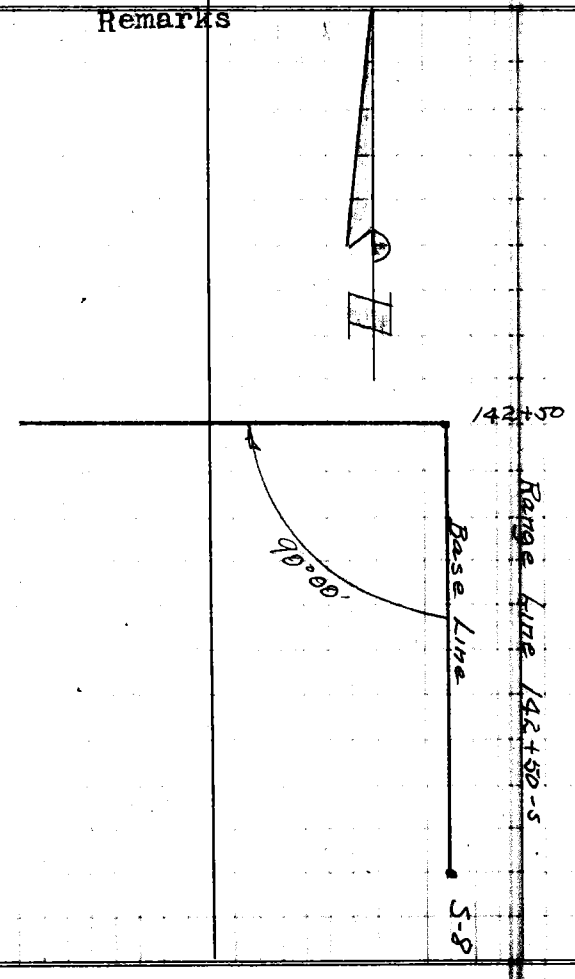
Profile Notes Red. Plotted Job No. 2266.07 By Division No. 10 F. B. 1510 Pg. 257
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes J.J.K. Date 8-8-55
No. Date Date Map No. Notes C. Johnson Date

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

Remarks



S-8
142+50

76L298 307 8-53

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

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F.B. 1570 PG. 158 Job No. 1200.2 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date Date No.
Survey by VanDeren Notes Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	21			90° 00'	
	22			90° 00'	
	23			90° 00'	Range Line 142+50-S
	24			90° 00'	
	25		7:37	90° 00'	
142+50 S-8					

76L298 307 4-50

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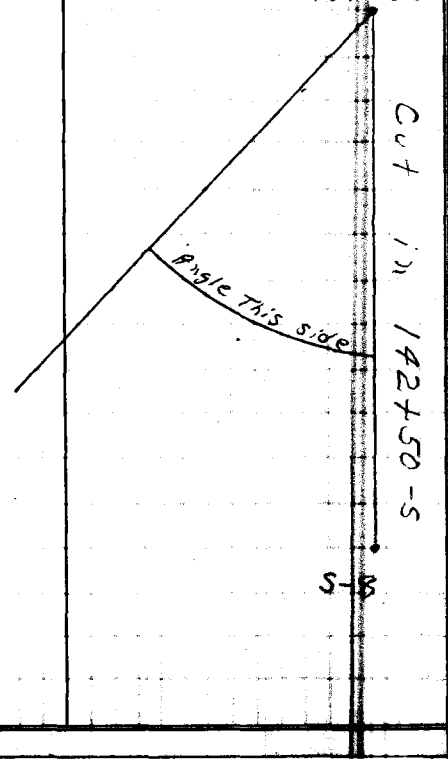
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 3262 Division No. 10 F.B. 1540 Pg. 252
No.____ Date____ Date____ Survey of Beach Erosion Study
X-Sec. Notes Chkd____ Checked____ Survey by Van Dorn, Metz, R.T. Date 8-8-55
No.____ Date____ Date____ Map No.____ Rec'd. Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At 137+50 S-8 Sight On	#	Color	Time	Hor. Ang.		Remarks
	1	29.9 28.5	7:52	74° 08'	1759 ✓	Boat +1.0
	2	29.3 27.9		73° 35'	1697 ✓	zero Adj -.1 ✓
	3	28.9 27.5		72° 55'	1627 ✓	Tide -2.3
	4	28.5 27.1		72° 15'	1562 ✓	Net -1.4
	5	27.5 26.1		71° 33'	1499 ✓	-2.3 ✓
	6	26.1 24.7		70° 51'	1440 ✓	
	7	25.5 24.1		69° 52'	1364 ✓	
	8	24.9 23.5		68° 52'	1294 ✓	
	9	24.3 22.9		67° 52'	1229 ✓	
	10	23.1 21.7		66° 50'	1168 ✓	
	11	22.7 21.3		65° 37'	1103 ✓	
	12	21.5 20.1		64° 08'	1031 ✓	
	13	20.5 19.1		62° 22'	955 ✓	
	14	19.3 17.9		60° 28'	883 ✓	
	15	17.6 16.2		58° 04'	802 ✓	
	16	15.9 14.5		55° 21'	723 ✓	
	17	14.3 12.9		52° 29'	651 ✓	
	18	13.0 11.6		50° 21'	603 ✓	
	19	12.2 10.8		48° 59'	575 ✓	
	20	11.2 9.8		47° 19'	542 ✓	



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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1570 Pg. 160 Job No. 3802 Division No. 10 Notes Red. Plotted Profile
Survey of Beach Erosion Study Date 8-8-55 Date No. X-Sec.
Survey by Van Deren Notes RT Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst at	Sight on	#	Color		Time	Hor. Dir.		Remarks.	
		21	10.6	9.2		45° 52'	515	Cut in	142+50-S
		22	9.2	7.8		43° 50'	480		
		23	8.5	7.1		42° 40'	477		
		24	6.9	5.5		40° 33'	428		
		25	6.2	4.8	7:57	39° 13'	408		
137+50-S	S-8								

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line. Cut-in ✓

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 132+50	Sight on 137+50
142+50						
T.P. 162 Ft. R.	17 64	23 24		5 60		
T.P.	9 07	30 74	1 57	21 6		
B.M. U.S. 3804	0 94	31 01	0 62	30 07 +2	U.S. 3804 C-768 1945	ELEV. 27.272, F.B. 1533 2800, 30.072
137+50			1 58	1 5 2		
45 Ft Left			1 4 8	1 6 2	BRK	
87 " "			6 8	2 4 2	BRK	
100 " "			5 6	2 5 4		
120 " "			3 1	2 7 9	BRK	
128 " "			3 0	2 8 0	SAND AT EDGE OF WALK	
129 " "			1 9 5	2 9 0	CONC. WALK	
50 Ft Right			1 7 3	1 3 7		BRK
T.P.	5 61	19 55	17 07	1 3 9 4		"
75 Ft. R.			7 7	1 1 8		
100 " "			1 0 1	9 4		BRK
131 " "			1 1 9	7 6		
T.P. 161 " "	2 47	8 06	1396	5 5 4		
			6 1	2 0	23° 32' 218	
			8 4	-0 3	29 01 277	
			11 5	-3 4	35 40 359	
			13 3	-5 2	40 20 425	
			16 5	-8 4	44 01 483	

Inshore S. 137+50

Profile Notes Red Plotted Job No. 130002 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Noted RECORDED Date 8-8-55
No. Date Date Map No. Indexed Johnson Date

F.B. 1570 Pg. 26

F.B. 1510 Pg. 162 Job No. 0300.02 Division No. 10 Notes Red Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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Profile No. ____ X-Sec. No. ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Plotted ____ Date ____ Checked ____ Date ____

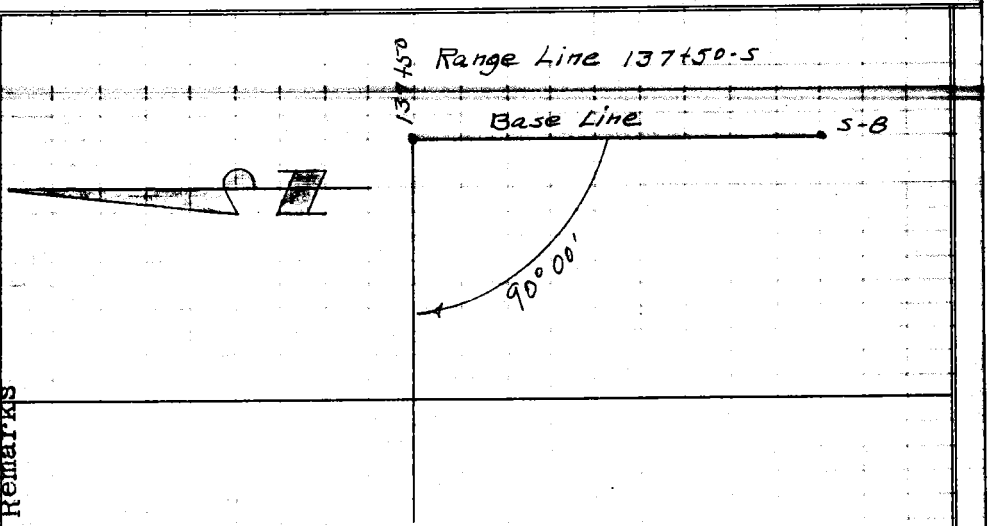
Job No. 0300.02 Division No. 10

Survey of Beach Erosion

Survey by VanDeren Notes J.J.E. Date 8-8-55

Map No. ____ Checked Johnson Date ____

F. B. 1570 Pg. 263



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
	#	Color	Time	Hor. Ang.	
	1		8:08	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	

Instrument At S-8

137+50

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76L298 307 8-53

F.B. 1510 Pg. 269 | Job No. 830002 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
137450						
S-8						
Inst. Sight					90° 00'	
At OR	21	Color	Time		90° 00'	Range Line
	22				90° 00'	
	23				90° 00'	137450-S
	24		8:13		90° 00'	

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 62662 Division No. 10 F. B. 1870 Pg. 163
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Wash Dare & Myers R.T. Date 6-8-55
No. Date Date Map No. Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks
	1	30.4 ✓ 28.4	8:08	74° 09'	1761 ✓
	2	29.3 ✓ 27.3		73° 27'	1683 ✓
	3	28.3 ✓ 26.3		72° 33'	1591 ✓
	4	27.0 ✓ 25.0		71° 24'	1486 ✓
	5	26.7 24.7		69° 53'	1365 ✓
	6	25.9 ✓ 23.9		68° 57'	1299 ✓
	7	24.8 ✓ 22.8		68° 10'	1248 ✓
	8	23.8 21.8		67° 15'	1192 ✓
	9	23.0 ✓ 21.0		65° 35'	1104 ✓
	10	21.9 ✓ 19.9		64° 05'	1029 ✓
	11	20.9 ✓ 18.9		62° 12'	948 ✓
	12	19.5 ✓ 17.5		60° 40'	890 ✓
	13	18.3 ✓ 16.3		58° 49'	825 ✓
	14	17.5 ✓ 15.5		56° 56'	768 ✓
	15	16.4 ✓ 14.4		55° 28'	727 ✓
	16	15.4 ✓ 13.4		53° 40'	680 ✓
	17	14.4 ✓ 12.4		52° 26'	650 ✓
	18	13.2 ✓ 11.2		50° 18'	602 ✓
	19	12.4 ✓ 10.4		49° 12'	579 ✓
	20	11.4 ✓ 9.4		47° 19'	542 ✓

Boat +1.0
Zero Adj -.4 ✓
Tide -2.6
Net -2.0

S-7

Cut in 137+50-S

Angle this side

142+50

S-7
142+50

76L298 307 4-50

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F. B. 1570 Pg. 266 | Job No. 63268 Division No. 10 Notes Red. Date 8-8-55 Plotted Profile
Survey of Beach Erosion Notes Date No. X-Sec.
Survey by Van Doren Notes A.T. Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.		
125T AT.	Sight on	#	Color	Time	Hor. Dir.		Remark	
142+50	S-7	21	10.8 ✓	8.8		45° 40'	512 ✓	Cut 137+50-S
		22	9.2 ✓	7.2		45° 32'	475 ✓	
		23	7.8 ✓	5.8		41° 25'	441 ✓	
		24	6.1 ✓	4.1	8:13	38° 35'	399 ✓	

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Do not extend notes this side of this line. Cat-in A

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 137+50	Sight on 132+50
137+50						
T.P. 161 FT R.	15 00	20 59		5 59		
T.P.	0 65	19 95	1 29	19 30		
132+50			40	15 9		
23 FT. LEFT			2 8	17.1	BRK	
45 " "			0 0	19 9	"	
67 " "			+55	25 4	"	
106 " "			+76	27 5		
117 " "			+77	27 6	SAND OUTSIDE RETAINING WALL	
67 FT RIGHT			6 0	13 9		BRK
94 " "			8 1	11 8		BRK
100 " "			8 6	11 3		
150 " "			12 6	7 3		
T.P. 171 " "	1 61	7 38	14 18	5 77		
			5 0	2 4	23° 55' 222	
			7 7	-0 3	30 35 296	
			13 +	-5 7	41 96 447	
			17 0	-9 6	48 52 573	

S. Instore 132+50

Profile
No. X-Sec.
Notes Red. Date Plotted Date
Notes Chkd Date Checked Date
Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 267
Survey of BEACH EROSION STUDIES
Survey by ENGLISH Notes ENTERED Date 8-8-55
Map No. Traced Johnson Date

F.B. 1510 PG 268 Job No. 0300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion Date _____ Date _____ No. _____

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 10-51

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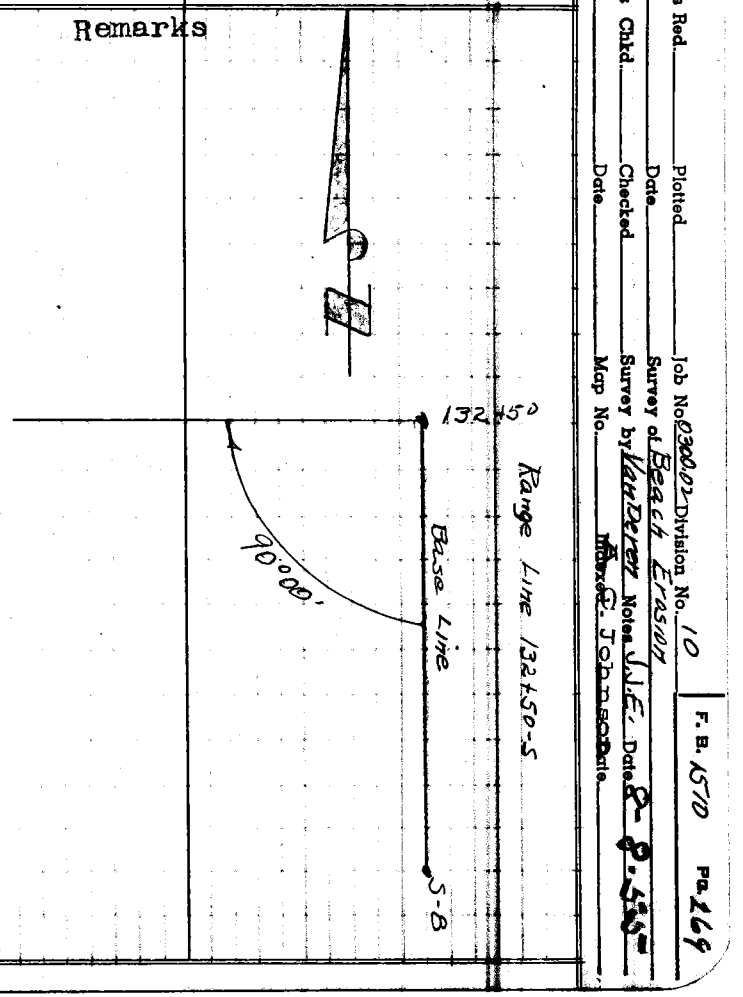
Profile Notes Red. Plotted Job No. 30002 Division No. 10 F. B. 1570 Pg. 169
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by VanDerey Notes J.J.E. Date 8-9-55
No. Date Date Map No. Notes C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. At CH	#	Color	Time	Hor. Ang.
	1		8:23	90° 00'
	2			90° 00'
	3			90° 00'
	4			90° 00'
	5			90° 00'
	6			90° 00'
	7			90° 00'
	8			90° 00'
	9			90° 00'
	10			90° 00'
	11			90° 00'
	12			90° 00'
	13			90° 00'
	14			90° 00'
	15			90° 00'
	16			90° 00'
	17			90° 00'
	18			90° 00'
	19			90° 00'
	20			90° 00'

Remarks



S-B
132.50

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 1510 Pg. 170 Job No. 62300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date Date
Survey by Van Dexer Notes Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date
Profile No. X-Sec. No.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
		21		8:27	90°00'	
132450	S-8					Range Line 132450-S

76L298 307 4-50

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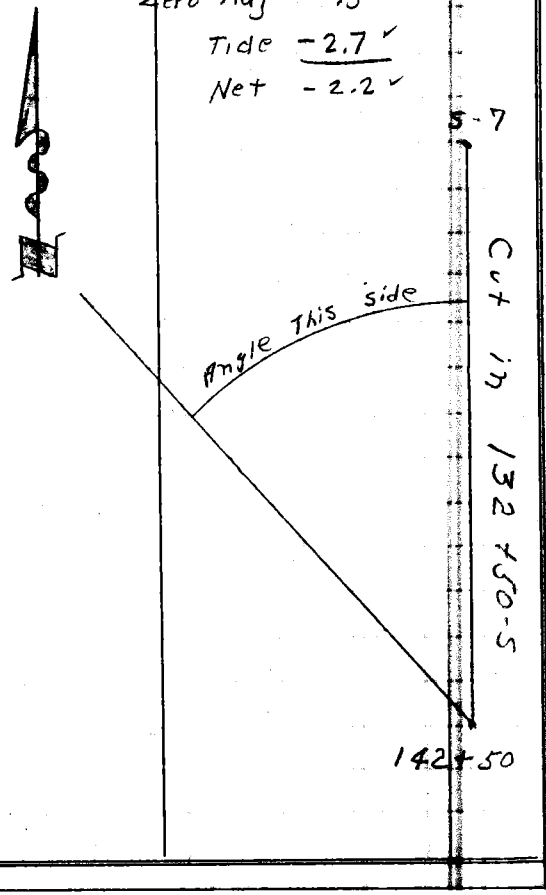
Profile Notes Red. Plotted Job No. 200.82 Division No. 10 F. B. 1510 Pg. 271
No. Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Lew Davis Notes R.T. Date 8-8-55
No. Date Date Map No. Index Jolly Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At OH	#	Color	Time	Hor. Ang.		Remarks
	1	28.2 ✓ 26.0	8:23	58° 35'	1637 ✓	Boat +1.0
	2	27.7 25.5		57° 30'	1570 ✓	Zero Adj −.5 ✓
	3	27.1 ✓ 24.9		56° 05'	1487 ✓	Tide −2.7 ✓
	4	26.4 ✓ 24.2		54° 25'	1398 ✓	Net −2.2 ✓
	5	25.4 23.2		52° 42'	1313 ✓	
	6	24.2 ✓ 22.0		50° 22'	1207 ✓	
	7	23.4 ✓ 21.2		48° 28'	1129 ✓	
S-7	8	22.3 ✓ 20.1		46° 02'	1037 ✓	
	9	20.7 ✓ 18.5		43° 30'	949 ✓	
	10	19.5 ✓ 17.3		40° 57'	868 ✓	
	11	17.9 ✓ 15.7		38° 25'	793 ✓	
	12	16.9 ✓ 14.7		36° 52'	750 ✓	
	13	16.2 ✓ 14.0		35° 15'	707 ✓	
	14	14.6 ✓ 12.4		33° 55'	672 ✓	
	15	13.9 ✓ 11.7		32° 15'	631 ✓	
	16	13.0 ✓ 10.8		30° 45'	595 ✓	
	17	11.7 ✓ 9.5		29° 17'	561 ✓	
	18	11.1 ✓ 8.9		27° 36'	523 ✓	
	19	9.8 7.6		26° 07'	490 ✓	
142+50	20	8.5 ✓ 6.3		24° 50'	463 ✓	



F. B. 1610 Pg. 272 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion study Date 8-8-55 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
INST. AT.					
142+50-S					
S-7					
	21 7.11	Color	Tree	Her 305	
		4.9	8.27	23° 12'	
					429 ✓ Cut in Remark 132+50-S

76L298 307 10-51

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Do not extend notes this side of this line. Cat-in

Profile Notes Red Plotted Job No. 0300.02 Division No. 10 F.B. 1570 Pg. 173
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Noted ED Dated 8-8-55
No. Date Date Map No. Traced C. Johnson Date

STATION	B.S.	H.I.	F.S.	ELEV.	Inst. at S-6	Sight on 127+50
132+50						
T.P. 171 FT. R.	14 18	19 95		.5 77 46		
T.P. S-7	11 69	26 15	5 55	14 40	S-7 ELEV. 10,462 C.S. BR. CAP MON 24" DEEP	
127+50			1 4	24 7		
9 FT LEFT			0 9	25 2	BRK	
25 " "			+60	32 15 / 20 1		
19 FT RIGHT			1 6	24 5	BRK	
46 " "			7 6	18 5	"	
61 " "			8 9	17 2	"	
100 " "			10 7	15 4		
159 " "			12 3	13 8	BRK	
95 " "			14 8	11 3	BRK	
100 " "			14 9	11 2		
T.P. 136 " "	-0 23	8 40 / 8 15	17 50	8 65		
		8 5	3 3 / 0 4			
			5 1		56 51	293 ✓
			8 0	-25	62 34	369 ✓
			10 9	-42	66 48	447 ✓
			12 6	-72	69 14	505 ✓
			15 6	-97	72 05	593 ✓
			18 1		77 45	882 ✓

Instore
S. 127+50

F.B. 1510 Pg. 274 | Job No. 0300.02 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by E.E. & G.D. | Notes E.E. & G.D. | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 307 10-51

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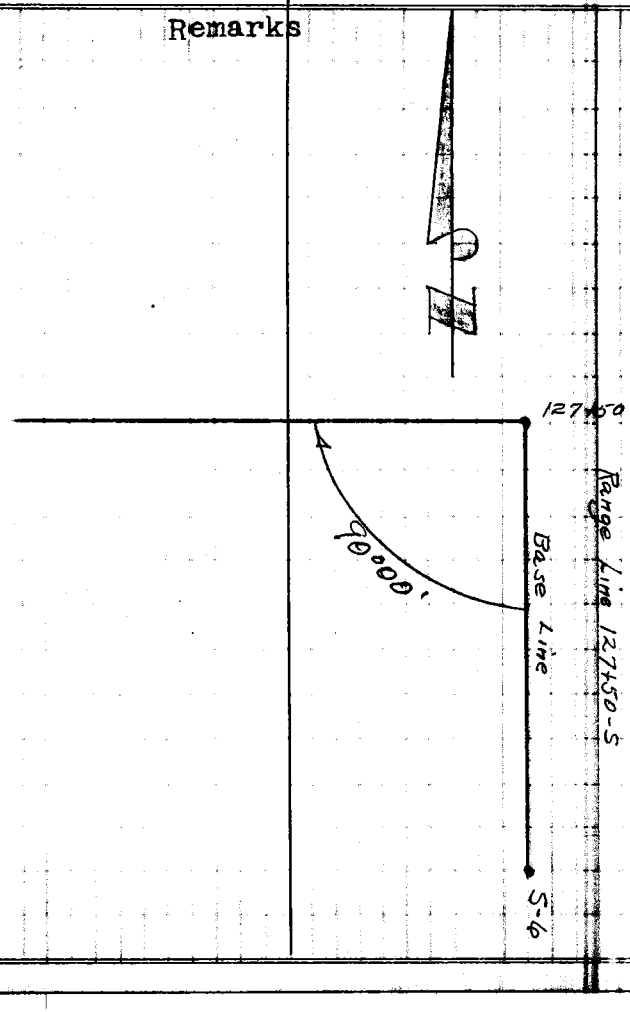
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8708.02 Division No. 10 F. B. 1570 Pg. 273
No. Date Date Survey of Beach Erosion Notes J.L.E. Date 8-8-57
X-Sec. Notes Cmkd. Checked Survey by Van Perer Notes J.L.E. Date 8-8-57
No. Date Date Map No. Checked Johnson Date

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



127+50
S-6

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1510 Pg. 276 Job No. 0320 Division No. 10 Notes Red. Date Notes Chkd. Date
Survey of Beach Erosion Notes Date Checked Date Profile No. X-Sec. No.
Survey by Van Deren
Indexed E. C. Johnson

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	21			90° 00'	
	22	8:47		90° 00'	
					Range Line 127+50-S
127+50 / S-6					

76L298 307 4-50

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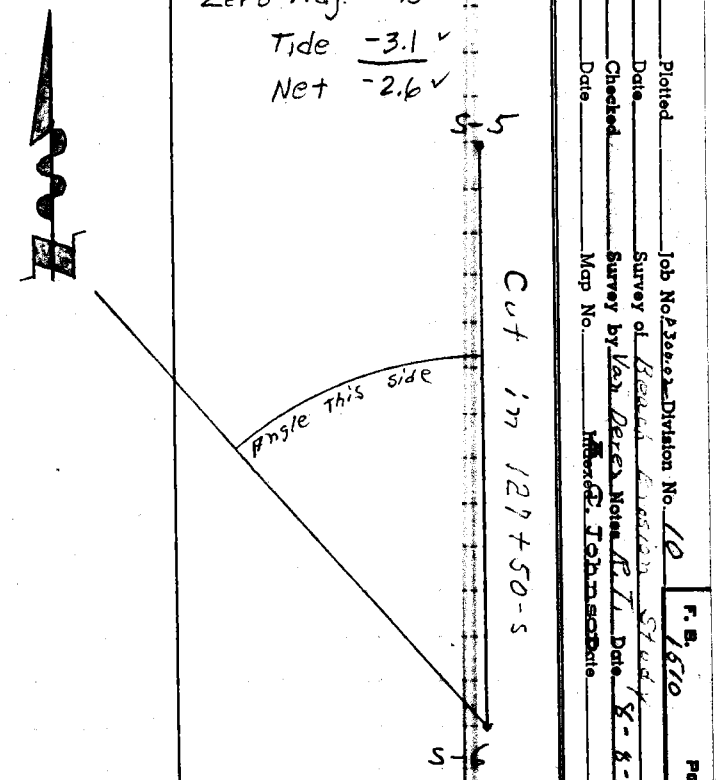
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2366.02 Division No. 10 F. B. 1670 Pg. 277
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd Checked Survey by Van Perez Notes R. T. Date Date 8-8-55
No. Date Date Map No. Inked Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On # Color Time Hor. Ang.	Remarks
						Boat +1.0
						Zero Adj. -.5 ✓
						Tide -3.1 ✓
						Net -2.6 ✓
	1	29.9 ✓ 26.7	8:43	83° 39′	1722 ✓	
	2	27.9 ✓ 25.3		83° 35′	1704 ✓	
	3	27.5 ✓ 24.9		83° 32′	1690 ✓	
	4	26.3 ✓ 23.7		83° 24′	1656 ✓	
	5	25.8 ✓ 23.2		83° 09′	1595 ✓	
	6	25.2 ✓ 22.6		82° 27′	1446 ✓	
	7	24.2 ✓ 21.6		81° 51′	1338 ✓	
	8	23.1 ✓ 20.5		80° 55′	1198 ✓	
S-5	9	21.9 ✓ 19.3		79° 59′	1085 ✓	
S-5	10	20.8 ✓ 18.2		79° 21′	1019 ✓	
	11	19.3 ✓ 16.7		79° 00′	986 ✓	
	12	17.9 ✓ 15.3		78° 13′	918 ✓	
	13	16.7 ✓ 14.1		77° 13′	844 ✓	
	14	16.4 ✓ 13.8		76° 45′	814 ✓	
	15	15.4 ✓ 12.8		76° 18′	786 ✓	
	16	14.6 ✓ 12.0		75° 45′	754 ✓	
	17	13.8 ✓ 11.2		75° 27′	738 ✓	
	18	13.4 ✓ 10.8		74° 35′	695 ✓	
	19	11.7 ✓ 9.1		74° 12′	677 ✓	
	20	10.5 ✓ 7.9		72° 45′	617 ✓	



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726 Los Angeles County Engineering Bldg.

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F. B. 1518 Pg. 178 | Job No. 0320.01 Division No. 10 Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Study Date 8-8-55 Date ____ No. ____ X-Sec.
Survey by Van Dorn Notes 12 ft. Notes Chkd. ____ Checked ____ No. ____
Indexed R. Johnson Date ____ Date ____ Date ____

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst #	Sight on	#	Color		Time	Hor. Ang.	Remark	
		21	9.2 ✓	6.6		72° 05	593 ✓ Cut in	127+50-S
		22	8.0 ✓	5.4	8:47	69° 56	525 ✓	
S-6	S-5							

76L298 S & E #307 9-54

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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 Rod. Plotted Job No. 830000 Division No. 16 F. B. 1570 Pg. 179
No. Date Date Survey of Pacific Coast Highway
X-Sec. Notes Chkd. Checked Survey by Pigsley Notes 4-5-60 Date 4-8-60
No. Date Date Map No. Underid Johnson Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Int. at 117+50	Sight on 122+50
127+50						
T.P. 136' R	11 87	20 52		8 65		
		22 65		14 95		
T.P.	10 20		5 57	4.7		
122+50			+6 0	28 6		
19' L.			+5 0	28 6		
20' R.			+5 1	27 7	Bot. Wall	
50' "			1 8	20.8	T. B.	
100' "			5 3	17.3	B. B.	
158' "			7 0	15.6		
200 "			9 7	12.9	Brk.	
240 "	1 16	11 10	12 71	9 94	T.P.	
			5 5	5.6		
			7 6	3.5	29° 46' 315	286
			11 1	0.0	34 15 382	347
			16 7	-5.6	41 48 492	447
			19 5	-8.4	50 41 672	610
					54 34 773	703

assuming 550' base

assuming 500' base

Inshore
122+50
5.

F. B. 1510 Pg. 280 | Job No. 3300.02 | Division No. 10 | Notes Red | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by EE & GD | Notes EEJ GD. | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

76L298 S & E #307 9-54

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76L298 307 8-53

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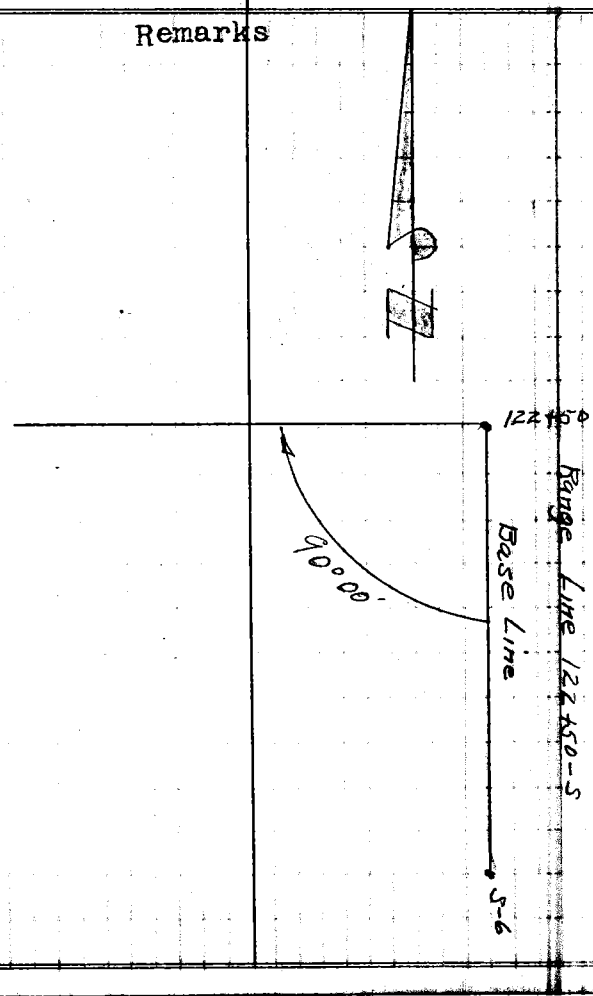
Profile Notes Red. Plotted Job No. 23402 Division No. 10 F. B. 1570 Pg. 281
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by VanDerer Notes J.J.E. Date 8-8-53
No. Date Date Map No. Indexed C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Colcr	Time	Hor. Ang.	
	1		8:57	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	
S-6					
122+50					



75L298 307 8-53

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

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F.B. 1510 Pg. 262 Job No. 83000 Division No. 10 Notes Red. Date Plotted Date No.
Survey of Beach Erosion Notes Date Notes Chkd. Date Checked Date X-Sec. No.
Survey by Van Dorn Notes Date
Indexed E. C. Johnson Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90° 00'		
	22			90° 00'		
	23			90° 00'	Range Line 122+50-S	
	24			90° 00'		
	25			90° 00'		
	26		9:03	90° 00'		
122+50 / S-6						

76L298 307 8-53

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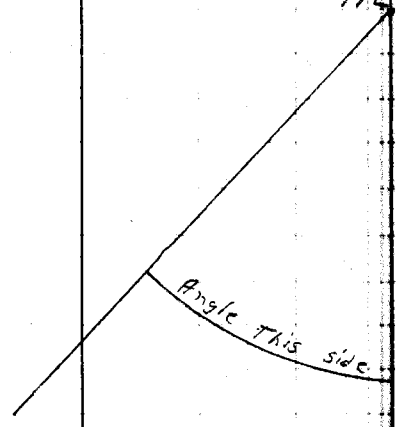
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 57002 Division No. 10 F. B. 1510 Pg. 283
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Main Depth Notes R.T. Date 8-8-55
No. Date Date Map No. Noted Johnson Date

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		Remarks
							Boat +1.0
	1	28.7	25.9	8:59	59° 12'	1678 ✓	Zero Adj -.5 ✓
	2	27.7	24.9		58° 14'	1615 ✓	Tide -3.3 -3.5 ✓
	3	27.2	24.4		56° 16'	1498 ✓	Net -2.8
	4	26.4	23.6		54° 32'	1404 ✓	112+50
	5	25.8	23.0		53° 18'	1342 ✓	
	6	24.6	21.8		51° 55'	1276 ✓	
	7	24.2	21.4		50° 20'	1206 ✓	
	8	24.0	21.2		48° 52'	1145 ✓	
	9	23.1	20.3		46° 58'	1071 ✓	
	10	22.0	19.2		45° 25'	1015 ✓	
	11	21.2	18.4		43° 55'	963 ✓	
	12	20.2	17.4		42° 26'	914 ✓	
	13	19.0	16.2		41° 14'	876 ✓	
	14	17.7	14.9		40° 04'	841 ✓	
	15	17.1	14.6		39° 14'	817 ✓	
	16	16.1	13.3		38° 02'	782 ✓	
	17	15.2	12.4		36° 45'	747 ✓	
	18	14.2	11.4		35° 45'	720 ✓	S-6
	19	13.5	10.7		34° 08'	678 ✓	
	20	12.4	9.6		33° 01'	650 ✓	

S-6
112+50



76L298 307 8-53

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

Do not extend notes this side of this line.

F. B. 1210 Pg. 164 Job No. 23001 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-8-55 Date No.
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed K C Johnson Date Date Date No.
Profile

STATION At	Inst. Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
		21	11.7	8.9		31° 46'	619 ✓	Cut in 122+50-S
		22	10.7	7.9		31° 15'	595 ✓	
		23	9.4	6.6		29° 20'	562 ✓	
		24	8.4	5.6		28° 00'	532 ✓	
		25	7.2	4.4		26° 14'	500 ✓	
		26	6.3	3.5	9:03	25° 33'	478 ✓	
112+50	5-6							

76L298 307 10-51

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Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	P. S.	ELEV.	Inst. at 112+50	Sighted 117+50
122+50		20.69				
T.P. 240 Ft. R	12 75	17 69 ✓		7 94 ✓		
T. P.	3 73	22 95	1 47	19 22 ✓		
117+50			4 50	27 9 ✓		
18 Ft LEFT			4 58	28 7 ✓	BOTTOM RETAINING WALL	
30 Ft RIGHT			4 15	24 4 ✓		TOP BRK
70 " "			5 6	19 3 ✓		BOT. "
100 " "			7 0	15 9 ✓		
135 " "			8 4	14 5 ✓		BRK
175 " "			10 9	12 0 ✓		"
200 " "			13 3	9 6 ✓		
T.P. 225 " "	0 05	8 25 ✓	14 75	8 20 ✓		
		8 3	4 4	3 9	28° 40'	273 ✓
			8 3	0 0 ✓	36 23	368 ✓
			10 7	-2 4 ✓	41 38	444 ✓
			12 3	-4 6 ✓	45 27	508 ✓
			15 4	-7 4 ✓	48 46	571 ✓
			18 1	-9 6 ✓	52 01	640 ✓

Inshore 5. 117+50

Profile Notes Red_____ Plotted_____ Job No. C300.02 Division No._____ F.B. 1510 Pg. 285
No._____ Date_____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd_____ Checked_____ Survey by: ENGLISH Notes ERRORED Date 8-8-55
No._____ Date_____ Date_____ Map No._____ Traced: Johnson Date_____

F.B. 1510 PG. 286 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E. & G.D. Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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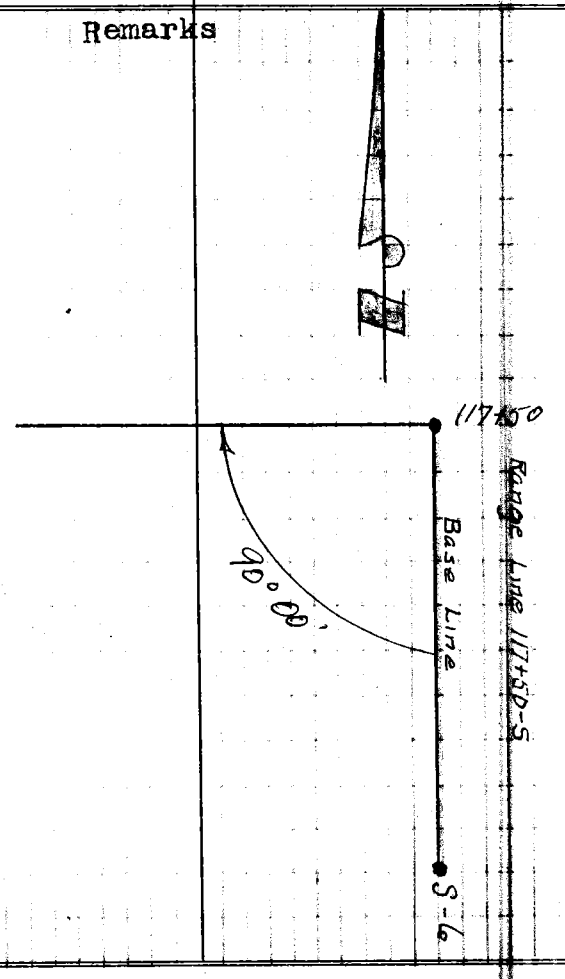
Profile Notes Red. Plotted Job No. 03802 Division No. 10 F. B. 1510 Pg. 287
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes V.N.E. Date 8-12-53
No. Date Date Map No. Asst. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9:17	90°	
	2			90°	
	3			90°	
	4			90°	
	5			90°	
	6			90°	
	7			90°	
	8			90°	
	9			90°	
	10			90°	
	11			90°	
	12			90°	
	13			90°	
	14			90°	
	15			90°	
	16			90°	
	17			90°	
	18			90°	
	19			90°	
	20		9:22	90°	



S-6
117+50

F.B. 1570 Pg. 288 Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

761293 307 6-53

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9/17/62

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STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
117+50						
5-6						
Tst. Sight						
At						
	#	Color	Time			
						Range Line 117+50-S

76L298 307 8-53

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

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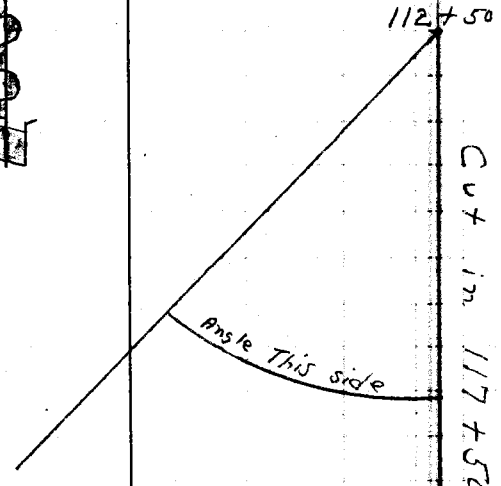
Profile Notes Rod____ Plotted____ Job No 0J22.02 Division No. 10 F. B. 13/10 Pg. 287
No.____ Date____ Date____ Survey of Reach E-105(22) Study
X-Sec. Notes Chkd.____ Checked____ Survey by Van Deren Notes RT Date 8-8-55
No.____ Date____ Date____ Map No.____ Plotted John 1502 Date____

STATION Inst. Sight At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
								Bout +1.0
								Zero Adj -.6
								Tide -3.7
								Net -3.3
		1	29.3	26.0	9:17	74° 11'	1765	
		2	28.8	25.5		73° 24'	1677	
		3	28.2	24.9		72° 15'	1562	
		4	27.1	23.8		71° 26'	1489	
		5	26.2	22.9		70° 25'	1405	
		6	25.7	22.4		69° 17'	1322	
		7	25.2	21.9		68° 16'	1254	
		8	23.8	20.5		67° 06'	1184	
		9	23.2	19.9		65° 45'	1110	
112+50	5-6	10	21.7	18.4		63° 56'	1022	
		11	20.3	17.0		62° 21'	954	
		12	19.2	16.4		61° 02'	903	
		13	18.6	15.3		59° 25'	846	
		14	17.1	13.8		58° 04'	802	
		15	16.2	12.9		56° 12'	747	
		16	14.4	11.1		54° 44'	707	
		17	13.3	10.0		52° 41'	656	
		18	12.1	8.8		51° 03'	619	
		19	11.0	7.7		49° 21'	582	
		20	6.7	3.4	9:22	44° 15'	487	



F. B. 1510 Pg. 290 Job No. 03ec.a1 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-8-55 Date No.

Survey by Van Deren Notes P.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 8-53

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Do not extend notes this side of this line. Cat-in 4

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 107+50	Sight on 112+50
117+50						
T.P. 225 Ft. R.	13 35	21 55		8 20		
T.P.	5 65	22 66	4 54	17 01		
112+50			+33	26 0		
19 FT LEFT			+34	26 1	BOTTOM RETAINING WALL	
26 FT RIGHT			+35	26 2		TOP BRK
60 " "			50	17 7		BOT. BRK
100 " "			72	15 5		
145 " "			85	14 2		BRK
184 " "			11 6	11 1		"
200 " "			129	9 8		
T.P. 233 " "	1 08	9 14	14 60	8 06		
			5 5	3 6	29° 59'	288
			7 7	1 4	35 07	352
			12 7	-3 6	44 44	495
			17 5	-8 4	50 29	604
			21 0	-11 9	54 54	711

Inshore
S. 112+50

Profile Notes Red Plotted Job No. 0300.02 Division No. 10 F.B. 1510 Pg. 29
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey By [illegible] Noted E.P.D. Date 8-8-55
No. Date Date Map No. Traversed J. Johnson Date

F.B. 1510 PG. 292 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by E.E.&G.D. Notes E.E.&G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

76L298 307 10-51

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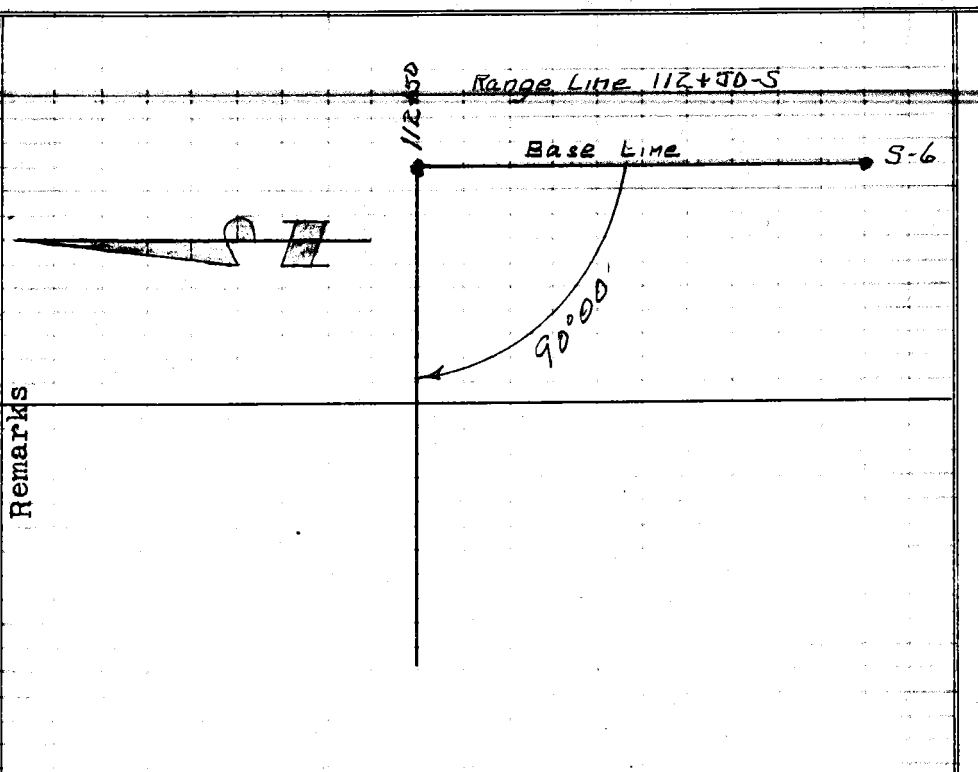
Profile No. ____ Notes Red. ____ Plotted ____ Job No. 23002 Division No. 10 | F. B. 1570 Pg. 193

X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Survey by VanDeren Notes J.J.E. Date 8-55 Map No. ____ Indexed A. C. Johnson Date ____



STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At CH	#	Color	Time			
	1		9:33		90°	
	2				90°	
	3				90°	
	4				90°	
	5				90°	
	6				90°	
	7				90°	
	8				90°	
	9				90°	
	10				90°	
	11				90°	
	12				90°	
	18				90°	
	14				90°	
	15				90°	
	16				90°	
	17				90°	
	18				90°	
	19				90°	
	20				90°	
S-6						
112+50						

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F.B. 1510 Pg. 179 Job No 83002 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date Date No.
Survey by Van Deren Notes Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No. Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
	21			90°		
	22			90°		
	23			90°	Range Line	112+50-S
	24			90°		
	25		9:37	90°		
112+50 / S-7						

76L298 307 8-53

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

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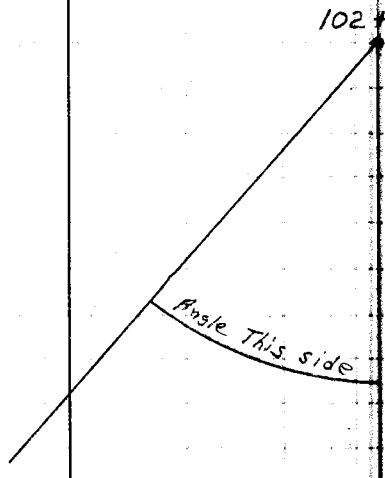
Profile Notes Red. Plotted Job No. 0302.12 Division No. 10 F. B. 7510 Pg. 295
No. Date. Date. Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes A.T. Date 8-8-55
No. Date. Date. Map No. Map C. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
						Boat +1.0
						Zero Adj −.6 ✓
						Tide −4.0 ✓
						Net −3.6 ✓
	1	29.5 25.9	9:33	60° 16′	1751 ✓	
	2	29.0 25.4		59° 38′	1707 ✓	
	3	28.3 24.7		58° 53′	1657 ✓	
	4	27.7 24.1		57° 33′	1573 ✓	
	5	26.7 23.1		56° 31′	1512 ✓	
	6	26.1 22.5		54° 30′	1402 ✓	
	7	25.8 22.2		53° 08′	1334 ✓	
	8	25.3 21.7		51° 32′	1259 ✓	
	9	23.9 20.3		50° 03′	1194 ✓	
	10	23.1 19.5		48° 24′	1126 ✓	
	11	22.2 18.6		46° 13′	1043 ✓	
	12	21.3 17.7		44° 00′	966 ✓	
	13	20.3 16.7		42° 22′	912 ✓	
	14	19.6 16.0		40° 51′	865 ✓	
	15	18.8 15.2		39° 53′	836 ✓	
	16	17.7 14.1		38° 52′	806 ✓	
	17	17.2 13.6		37° 51′	777 ✓	
	18	16.0 12.4		36° 16′	734 ✓	
	19	14.6 11.0		34° 32′	688 ✓	
	20	12.8 9.2		32° 27′	636 ✓	

S-6

102+50



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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 1510 PG. 296 Job No 63ec.62 Division No. 10 Notes Red. 5-8-58 Plotted
Survey of Beach Erosion Study Date Profile No.
Survey by Veh Deren Notes R.T. Notes Chkd. Checked X-Sec. No.
Indexed A. C. Johnson Date Date Date

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At	On	#	Color		Time	Hor. Ang.	Remarks		
		21	11.2	7.6		30° 35'	591	Cut in	112+50-S
		22	9.8	6.2		29° 21'	562		
		23	9.0	5.4		28° 15'	526		
		24	void			28° 40'	502		
		25	void		9:37	29° 55'	465		
102+50	S-6								

76L298 307 10-51

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

Do not extend notes this side of this line. Cut-in A

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 102+50	Sight on 107+50
112+50 T.P. 223 FT R.	14 69	22 75		8 06		
T. P.	9 48	30 81	1 42	21 33		
T.P. 107+50	0 57	26 85	4 55	26 26		
18 FT. LEFT			00	26 8	TOE SLOPE	
22 FT RIGHT			1 4	25 4		TOP BRK
60 " "			9 9	16 9		BOT. BRK
100 " "			11 5	15 3		
150 " "			14 3	12 5		
T.P. " "	5 13	17 32	1464	12 19		
200 " "			77	9 6		
237 " "	1 35	9 08	959	7 73		
			5 2	3 9	29° 47' 286	
			7 6	1 5	35 22 355	
			10 8	-1 7	41 59 450	
			14 7	-5 6	48 09 558	
			18 2	-9 1	51 45 634	

Inshore
S. 102+50

Profile Notes Red Plotted Job No. 0300.62 Division No. 10 F.B. 1510 Pg. 197
No. Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by ENGLISH Noted C.E.D. ED Date 8-8-55
No. Date Date Map No. Traced C. Johnson Date

B. 1510 PG. 298 Job No. 8300.02 Division No. 10 Notes Red _____ Plotted _____ Profile

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

Survey by DREIER ENGLISH Notes E.E. & G.D. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76L298 307 10-51

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

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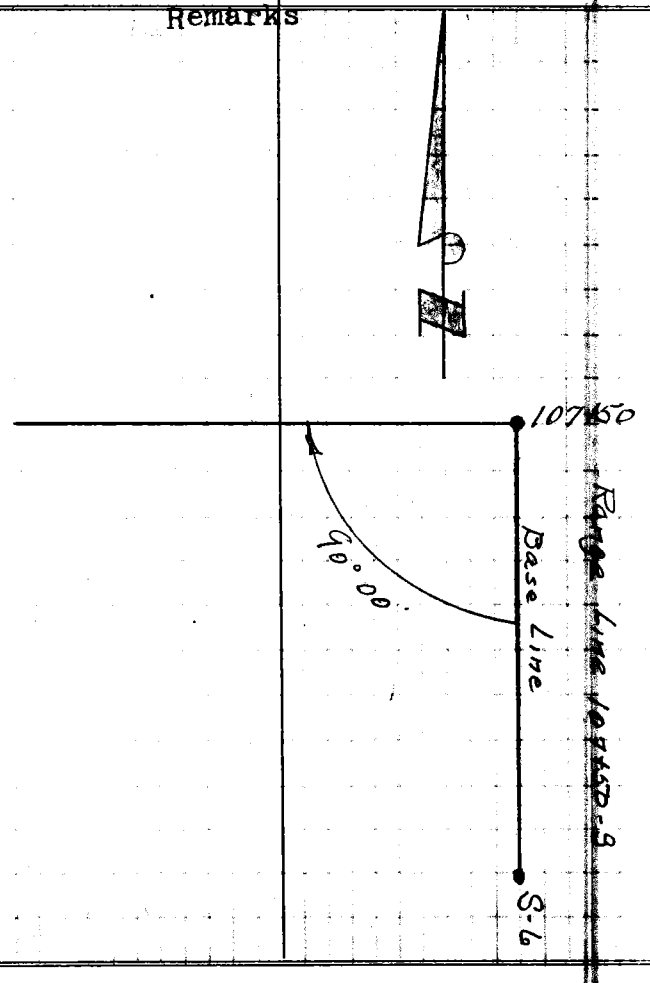
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 2300 Division No. 10 F. B. 1370 P. 27
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd. Checked Survey by VanDeren Notes J.J.E. Date 2-9-53
No. Date Date Map No. Checked: Johnson Date

STATION At	STATION On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
~~Inst. Sight~~		1		9:48	90°
		2			90°
		3			90°
		4			90°
		5			90°
		6			90°
		7			90°
		8			90°
		9			90°
		10			90°
		11			90°
		12			90°
		13			90°
		14			90°
		15			90°
		16			90°
		17			90°
		18			90°
		19			90°
		20			90°

Remarks



107+50
S-7

F.B. 1510 Pg. 300 Job No. 0300-02 Division No. 18 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Dereef Notes Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

761.298 307 8-53

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight On	#	Color	Time			
107+50	21		9:52		90°	
5-6	22				90°	Range Line
						107+50-S

76L298 307 8-53

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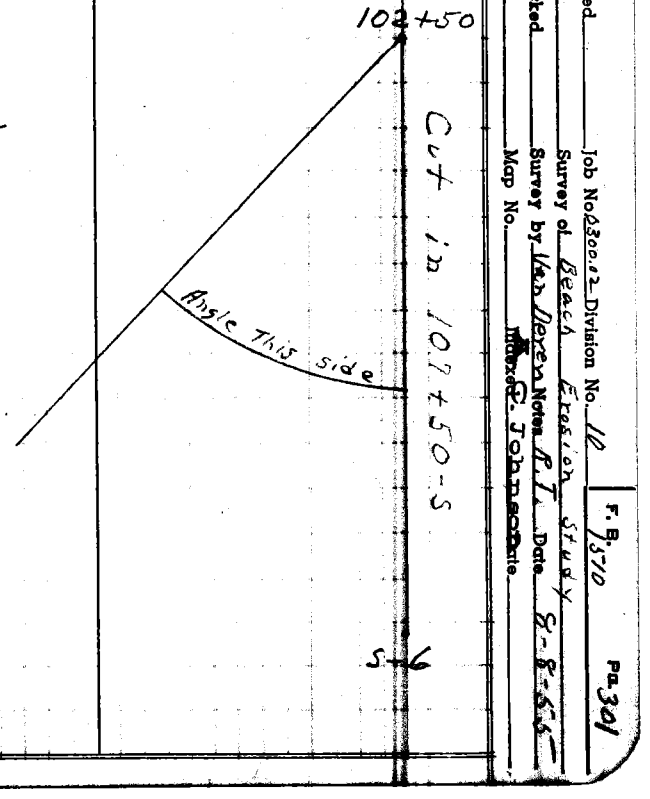
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 3200.02 Division No. 12 F. B. 3370 Pg. 301
No. Date Date Survey of Beach Erosion Study Date 8-8-53
X-Sec. Notes Chkd. Checked Survey by Ken Deremer Noted R.T. Date
No. Date Date Map No. Noted C. Johnson Date

STATION	B. S.	H. I.		F. S.	ELEV.		Remarks
~~Inst. Sight~~ At On	#	Color		Time	Hor. Ang.		
							Boat +1.0
							Zero Adj -.7 ✓
							Tide -4.1' -4.2'
							Net -3.8
	1	29.6	25.8	9:48	73° 41'	1708 ✓	
	2	28.2	24.4		73° 14'	1660 ✓	
	3	27.6	23.8		72° 15'	1562 ✓	
	4	27.0	23.2		70° 41'	1426 ✓	
	5	26.2	22.4		69° 32'	1340 ✓	
	6	25.2	21.4		68° 15'	1253 ✓	
	7	24.6	20.8		67° 23'	1200 ✓	
	8	23.5	19.7		65° 51'	1115 ✓	
	9	22.4	18.6		63° 58'	1024 ✓	
	10	21.1	17.3		62° 40'	967 ✓	
	11	20.8	17.0		61° 17'	913 ✓	
	12	19.2	15.4		60° 14'	874 ✓	
	13	18.7	14.9		59° 07'	836 ✓	
	14	17.6	13.8		58° 00'	800 ✓	
	15	16.7	12.9		56° 28'	754 ✓	
	16	15.1	11.3		54° 43'	707 ✓	
	17	14.3	10.5		53° 35'	678 ✓	
	18	13.0	9.2		52° 10'	644 ✓	
	19	11.7	7.9		50° 36'	609 ✓	
	20	10.0	6.2		48° 57'	574 ✓	



S-6
102+50

F. B. 1510 Pg. 302 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-8-55 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
102+50						
S-6						
Just Right Of	#	Color	Time			
	21	BC	48			
	23	74	3.6			
		That's it	9:52			
					539	Cut in
					501	
						107+50-S

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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

Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 107+50		Sight on 102+50	
107+50								
T.P. 23' Ft. R.	11 57	19 30		7 73				
T.P.	5 77	20 79	4 28	15 02				
102+50			+6 1	26 9	TOE SLOPE			
15 FT LEFT			+6 2	27 0				
21 FT. RIGHT			+6 2	27 0			TOP BRK	
53 " "			3 2	17 6			BOT. "	
100 " "			5 2	15 6				
143 " "			6 8	14 0				
200 " "			9 6	11 2			BRK	
T.P. 245 " "	1 06	9 05	1280	799				
			5 4	3 6	30° 42'	297		
			8 0	1 0	36 47	374		
			11 1	-2 1	43 18	471		
			14 8	-5 8	49 22	583		
			20 5	-11 5	55 33	729		

Inshore
S. 102+50

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 1510 Pg. 30
No. ____ Date ____ Date ____ Survey of BREIER EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by ENGLISH Noted E.D.F. ED. Date 8-8-55
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

F.B. 1510 PG. 304 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by DREILER ENGLISH Notes E.E. & G.D. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

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

79L298 307 10-51

76L298 307 8-53

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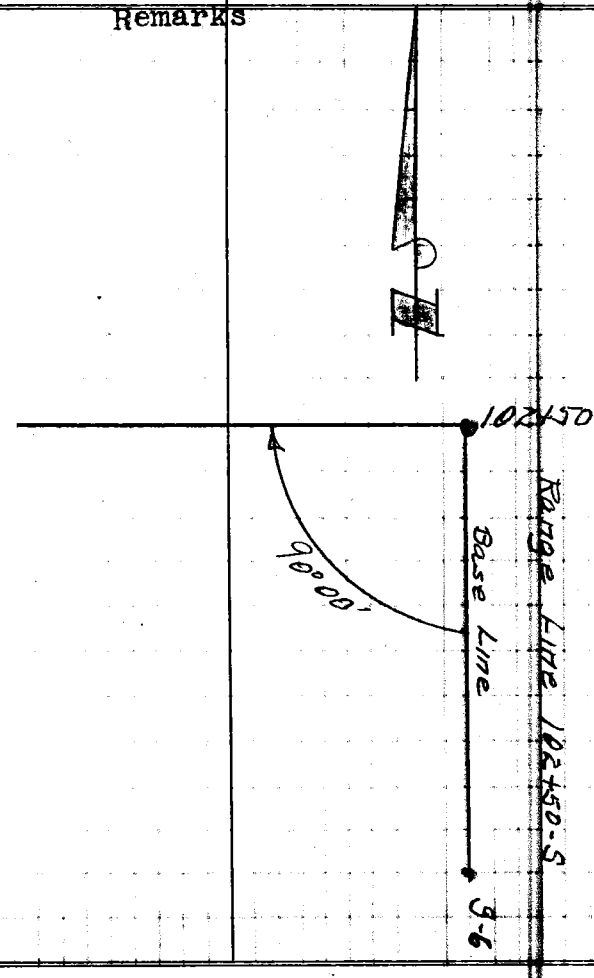
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION At	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
	1		10:03	90°00'	
	2			90°00'	
	3			90°00'	
	4			90°00'	
	5			90°00'	
	6			90°00'	
	7			90°00'	
	8			90°00'	
	9			90°00'	
	10			90°00'	
	11			90°00'	
	12			90°00'	
	13			90°00'	
	14			90°00'	
	15			90°00'	
	16			90°00'	
	17			90°00'	
	18			90°00'	
	19			90°00'	
	20			90°00'	



S-6
102+50

Profile Notes Red. Plotted Job No. 300.02 Division No. 10 F. B. 1570 Pg. 305
No. Date Survey of Beach Erosion Notes J.W.E. Date 8-8-55
X-Sec. Notes Chkd. Checked Survey by VanDerau Notes J.W.E. Date
No. Date Map No. Index C. Johnson Date

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1370 Pg. 306 Job No. 10000 Division No. 12 Notes Red. Date Plotted Date No.
Survey of Beach Erosion Notes Chkd. Checked Date X-Sec. No.
Survey by Van Deren Notes Date
Indexed C. Johnson Date

Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21			90°00'		
	22		10:09	90°00'		
					Range Line	102+50-S
102+50	S-6					

76L298 307 8-53

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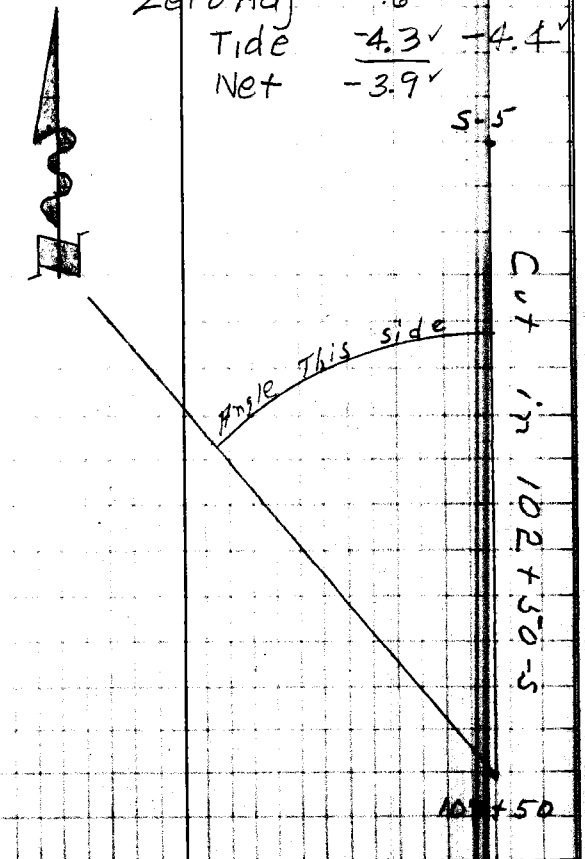
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. Division No. F.B.
No. Date Date Survey of Beach Erosion Study F.B.
X-Sec. Notes Chkd Checked Survey by Van Dorn & Nolte, Inc. Date
No. Date Date Map No. Inked Date

STATION At ~~Inst. Sight~~ On	B.S. #	H.I. Color		F.S. Time	ELEV. Hor. Ang.		Remarks
	1	28.9	25.0	10:05	73° 10'	1653 ✓	Boat +1.0
	2	27.9	24.0		72° 14'	1560 ✓	Zero Adj -.6 ✓
	3	26.6	22.7		70° 52'	1441 ✓	Tide -4.3 ✓ -4.4 ✓
	4	26.5	22.6		69° 53'	1365 ✓	Net -3.9 ✓
	5	25.5	21.6		69° 10'	1314 ✓	S-5
	6	24.8	20.9		67° 49'	1226 ✓	
	7	24.1	20.2		66° 25'	1145 ✓	
	8	22.9	19.0		65° 09'	1080 ✓	
S-5	9	21.5	17.6		63° 30'	1003 ✓	
	10	19.3	15.4		61° 30'	921 ✓	
	11	18.7	14.8		59° 20'	843 ✓	
	12	17.3	13.4		58° 24'	813 ✓	
	13	16.1	12.2		57° 11'	775 ✓	
	14	15.1	11.2		55° 23'	724 ✓	
	15	13.9	10.0		54° 06'	691 ✓	
	16	13.0	9.1		53° 07'	666 ✓	
	17	12.1	8.2		51° 55'	638 ✓	
	18	11.1	7.2		50° 49'	613 ✓	
	19	9.4	5.5		49° 00'	575 ✓	
	20	8.5	4.6		48° 03'	556 ✓	



Profile

Notes Red. _____ Plotted

Date 8-8-55 Date

Notes Chkd. _____ Checked

Date _____ Date

C. Johnson Date

OR CHANGES
E MADE OR
'I DATE AND
G CHANGE.

Insert sight

At	On	#	Color		Time	Hor. Ang.		Remarks
		21	7.3	3.4		46° 18'	522 ✓	Cut in 102+50-S
		22	6.7	2.8	10:09	44° 53'	498 ✓	

197+50

S-S