F.B. 2303 PG. 5

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

BEACH EROSION STUDIES

— SOUNDINGS —

JN 0300.02

AUG 18 1955 TO AUG-19-1955

From Station 156+00N To 210+00N

M. A. Van Deren
K. Krammen
W. Richards
J. Bazen
J. Edwards
A. Santucci
R. Turrill
T. Henderson

Microfilmed April '86

Notes Ck'd by	Survey of Beach Erosion
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by Van Dorn
Checked	Notes V. V. E Date 8-18-55
Date	Indexed C. Johnson

F. B. 330 PG. 6A

August 18, 1955

Standard Time

Time	Tide
5:00	0.4
5:30	0.9
6:00	1.4
6:30	2.2
7:00	3.0
7:30	3.7
8:00	4.2
8:30	4.6
9:00	4.8
9:30	5.0
10:00	5.0
10:30	4.9
11:00	4.7

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

Do not extend notes this side of this line.

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

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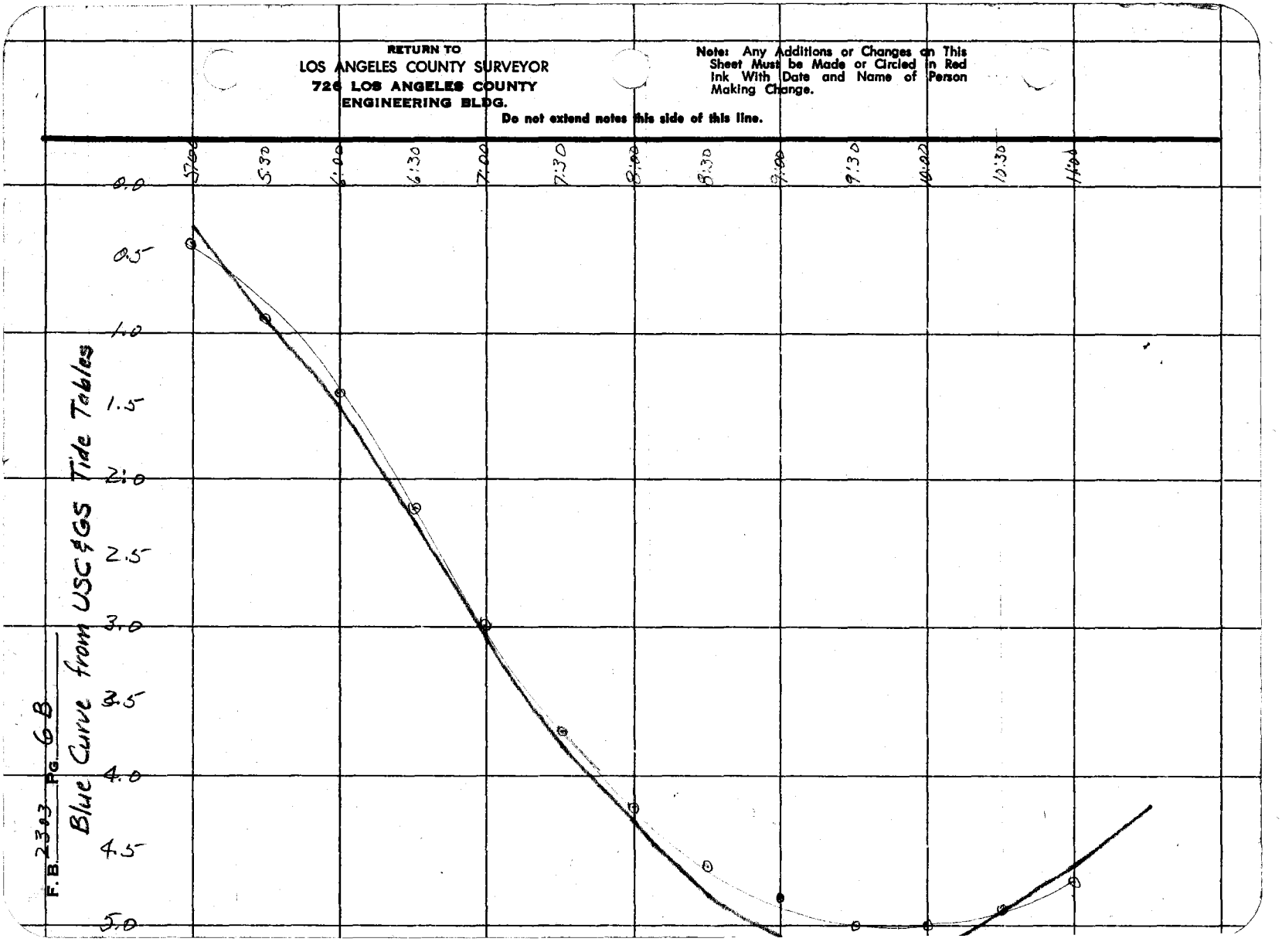
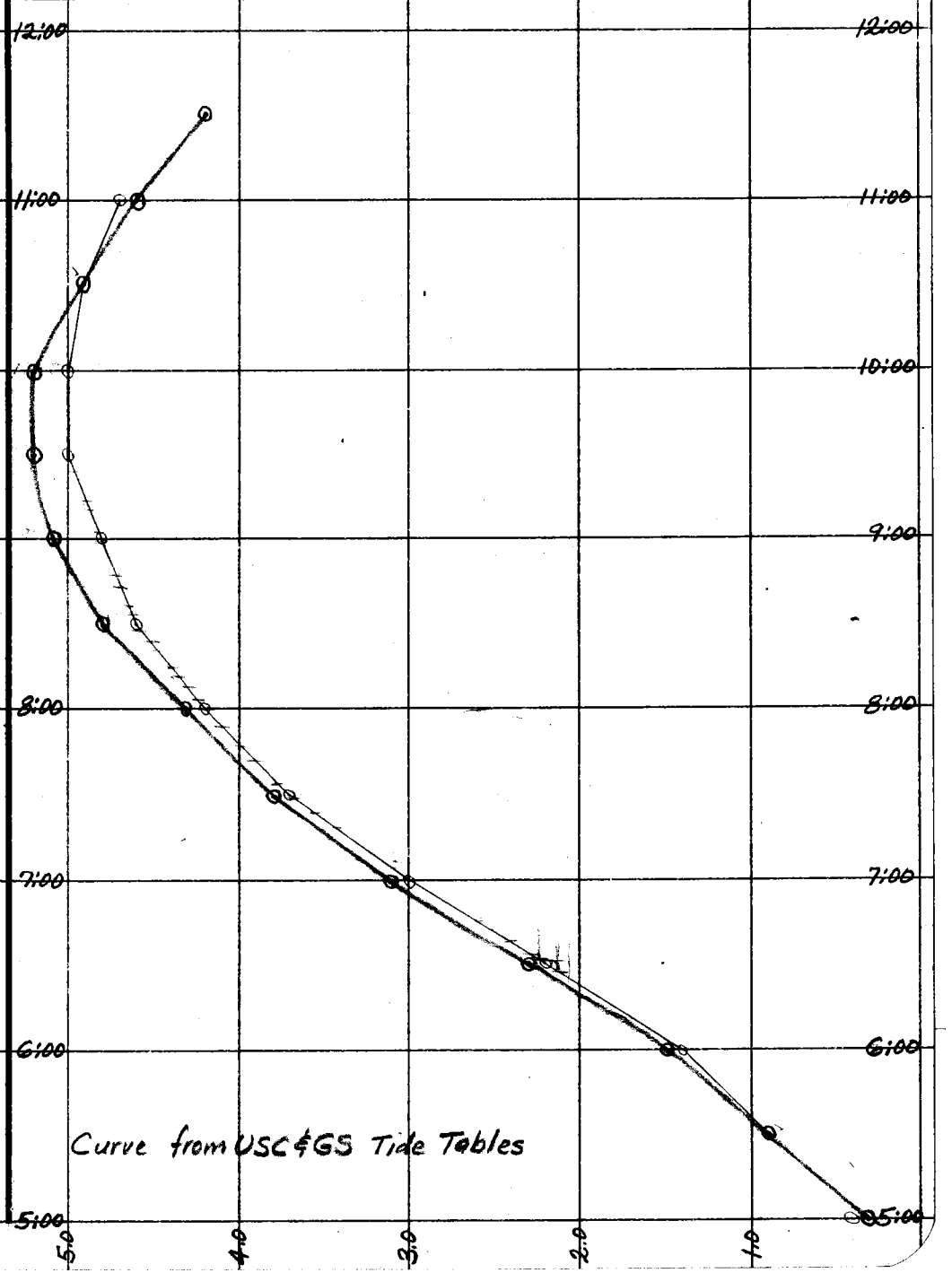


Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Beach Erosion
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed C. Johnson

F. B. 2303 Pg. 6C

August 18, 1955



Curve from USC&GS Tide Tables

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76F3095 SSE #247. 8-54

76L298 S & E #307 9-54

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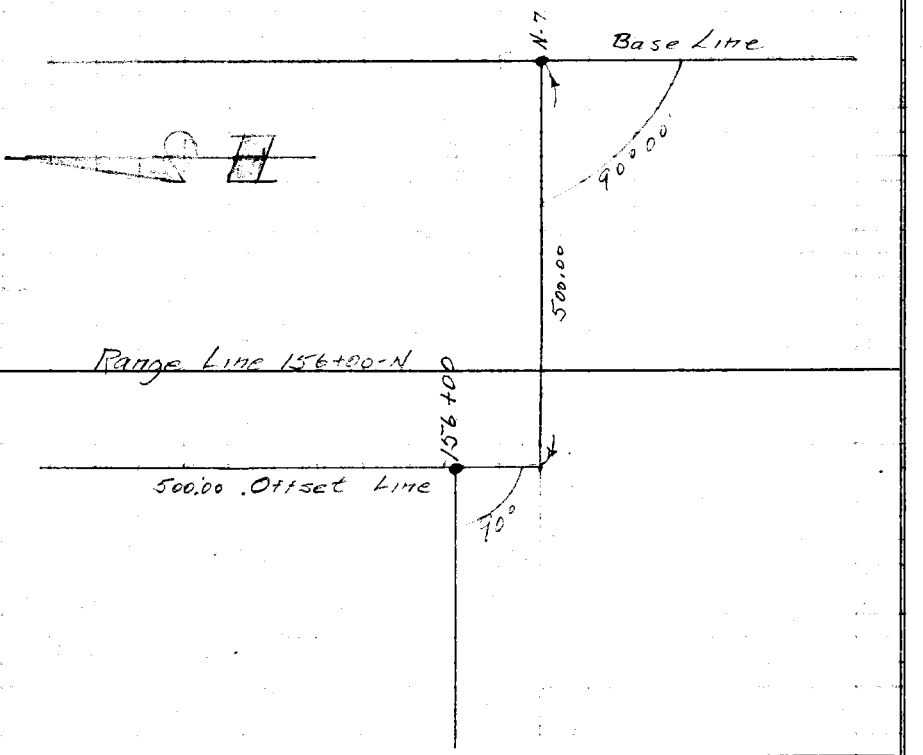
Do not extend notes this side of this line. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 162+00	Sight on 156+00
154+00				1285	figure blue (500' offset)	
T.P. (2ND. LINE)	6 47	~~19 77~~		~~14 16~~	checked -OK	
T.P.	3 76	~~18 00~~	4 58	~~14 14~~	B. SPK. T.P. IN 4th POLE FROM W. END.	
N. 156+00			4 0	~~14 5~~	Sand	
100' L.			4 9	~~13 6~~		
200 "			6 1	~~12 4~~		
274 "			7 2	~~11 3~~		
300 "			7 2	~~11 3~~		
385 "			6 4	~~12 1~~		
400 "			6 2	~~12 3~~		
500 "			4 0	~~14 5~~		
540 "			3 2	~~15 3~~		
563 "			6 3	~~11 2~~		
603 "	2 0	~~8 6~~	11.93	~~6 57~~	T.P.	
			5 8	~~2 4~~	12° 01' 128' + 500 off	628
			9 9	~~7 3~~	16 24 177'	677
			14 2	~~9 5~~	21 59 242'	742
			19 0	~~10 4~~	27 08 307'	807

INSHORE
N. 156+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 7
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE Notes EE Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 9
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. J. E.	Date 8-18-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:27	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'	

N-8

156+00 on 500' offset Line

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76L298 307 8-53

F.B. 2360 Pg. 10 Job No. 23000 Division No. 15 Notes Red Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Dorn Notes J.J.C. Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
156+00 - N				90° 00'	
N-8	21			90° 00'	
	22			90° 00'	
	23		6:31		
					Range 156+00 - N Line

76L298 307 8-53

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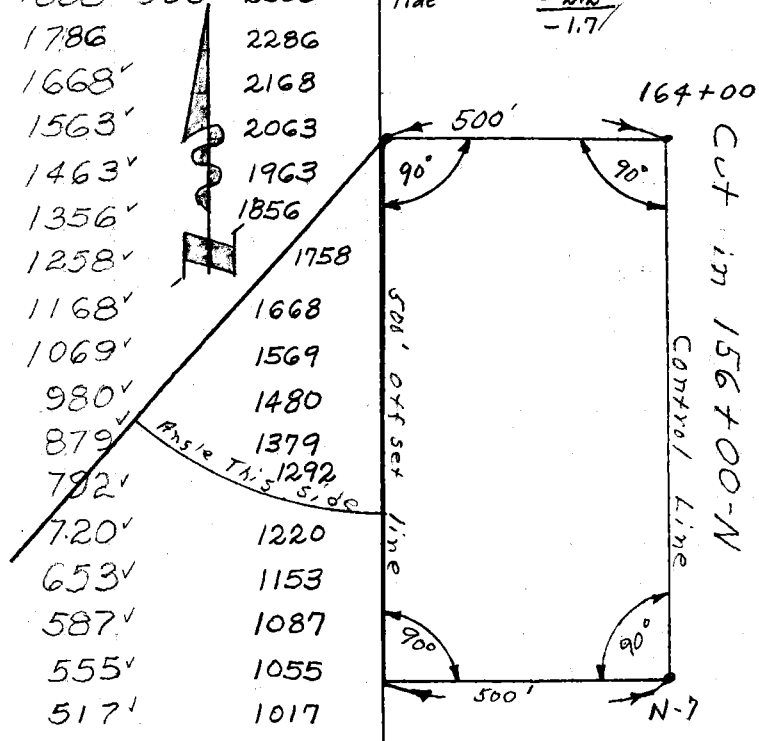
STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		
	1	27.6 27.9	6:27	67° 02'	1888 + 500 =	2388
	2	27.8 27.1		65° 02'	1786	2286
	3	27.8 26.1		64° 23'	1668	2168
	4	27.2 25.5		62° 54'	1563	2063
	5	26.4 24.7		61° 20'	1463	1963
	6	25.2 23.5		59° 28'	1356	1856
	7	24.8 23.1		57° 33'	1258	1758
	8	24.0 22.3		55° 36'	1168	1668
	9	23.4 21.7		53° 12'	1069	1569
	10	22.5 20.8		50° 46'	980	1480
	11	22.0 20.3		47° 42'	879	1379
	12	21.4 19.7		44° 43'	792	1292
	13	20.6 18.9		41° 59'	720	1220
	14	19.9 18.2		39° 13'	653	1153
	15	19.9 18.2		36° 15'	587	1087
	16	19.4 17.7		34° 45'	555	1055
	17	17.6 15.9		32° 51'	517	1017
	18	16.8 15.1		30° 00'	462	962
	19	16.1 14.4		28° 10'	428	928
	20	15.6 13.9		26° 15'	395	895

Zero Adj. −0.5
Boat Adj. +1.0
Tide −2.2
−1.7



164+00
N-7

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 11
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

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F.B. 2303 Pg. 12 Job No 2324.02 Division No. 10 Notes Red. Date 8-18-55 Plotted Date No.
Survey of Beach Erosion Study Notes Chkd. Checked Date No.
Survey by Van Deren R.T. Notes Date
Indexed K. C. Johnson Date

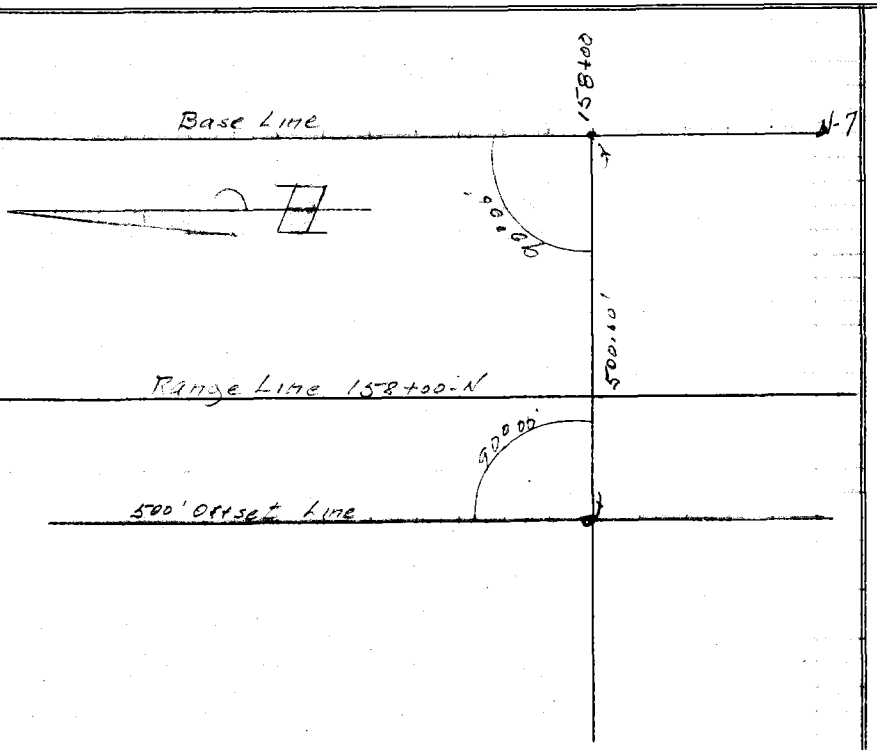
Profile X-Sec.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.			Remarks
		21	14.6 v 12.9		24° 31'	365'	865	1.56+00-N
		22	13.4 v 11.7		22° 18'	328'	828	
		23	11.7 v 10.0	6:31	20° 50'	304'	804	
164+00	N-7							

Profile No. | Notes Red. | Date | Plotted | Date | Job No. 1300.02 | Division No. 10 | Survey of Beach Erosion | Survey by Vanderen | Notes J.L.E. | Date 8-18-55 | Map No. | Indexed Johnson | Date

F. B. 2303 Pg. 15

X-Sec. No. | Notes Chkd. | Date | Checked | Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		6:39	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'	

N. 8

158+00 on 500' offset Line

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761.298 307 8-53

F.B. 2303 Pg. 16 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

Indexed S. C. Johnson Date | Date | Date | No.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

761298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.	Remarks
158+00-N 07500' offset line						
K-8						
At Just Light On	#	Color	Time			
	21				90° 00'	
	22				90° 00'	
	23				90° 00'	
	24				90° 00'	
	25				90° 00'	Range Line
	26				90° 00'	
	27				90° 00'	
	28		6:45		90° 00'	158+00-N

76L298 307 8-53

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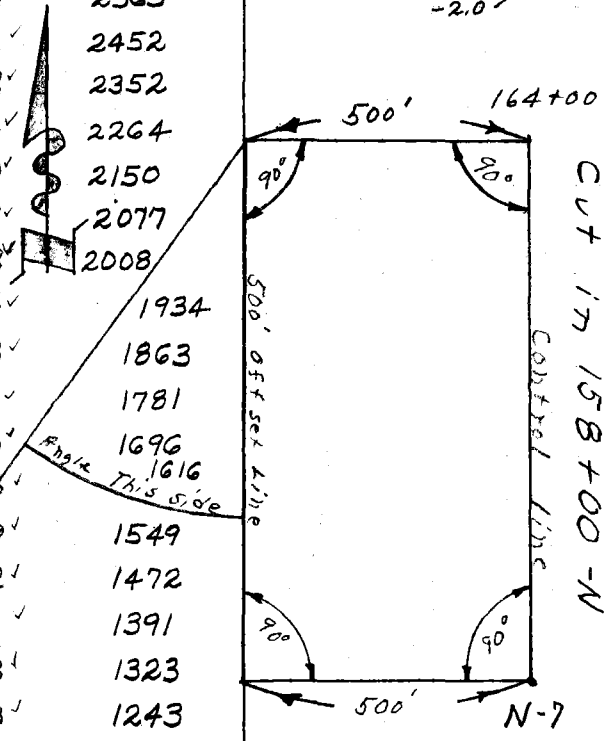
Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight Ch	#	Color		Time	Hor. Ang.			Remarks
		1	30.7	28.7	6:39	73°	47'	2063	2563
		2	30.5	28.5		72°	55'	1952	2452
		3	29.9	27.9		72°	03'	1852	2352
		4	28.9	26.9		71°	13'	1764	2264
		5	28.2	26.2		70°	01'	1650	2150
		6	27.7	25.7		69°	10'	1577	2077
		7	26.9	24.9		68°	18'	1508	2008
		8	26.2	24.2		67°	18'	1434	1934
		9	25.8	23.8		66°	14'	1363	1863
		10	25.2	23.2		64°	54'	1281	1781
		11	24.8	22.8		63°	22'	1196	1696
		12	24.2	22.2		61°	44'	1116	1616
		13	23.6	21.6		60°	14'	1049	1549
		14	22.9	20.9		58°	19'	972	1472
		15	22.5	20.5		56°	03'	891	1391
		16	22.0	20.0		53°	54'	823	1323
		17	21.2	19.2		51°	05'	743	1243
		18	20.9	18.9		48°	28'	677	1177
		19	19.8	17.8		44°	45'	595	1095
		20	19.3	17.3		41°	48'	536	1036

Zero Adj. -0.5
Boat Adj. +1.0
Tide -2.5
-2.0

-2.6



164+00

N-7

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 17
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Doren Notes P.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

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STATION Inst. At	Sight On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks	
									Cut-in
		21	18.1 ✓	16.1		38° 48'	482 ✓	982	158+00-N
		22	17.4 ✓	15.4		36° 42'	447 ✓	947	
		23	16.6 ✓	14.6		35° 27'	427 ✓	927	
		24	15.9 ✓	13.9		33° 37'	399 ✓	899	
		25	15.1 ✓	13.1		32° 10'	377 ✓	877	
		26	14.8 ✓	12.8		30° 12'	349 ✓	849	
		27	13.3 ✓	11.3		28° 36'	327 ✓	827	
164+00	N-7	28	12.7 ✓	10.7	6:45	27° 03'	306 ✓	806	

F.B. 2303 Pg. 18 Job No. 10 Division No. 030002 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 8-18-55 Date X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

F. B. 2303 Pg. 21

Profile No. | Notes Red. | Plotted | Job No. 23000X Division No. 10
Date | Date | Survey of Beach Erosion
X-Sec. No. | Notes Chkd. | Checked | Survey by VanDeren Notes J.V.E. Date 8-18-53
Date | Date | Map No. | Indexed A. C. Johnson Date

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726 Los Angeles County Engineering Bldg.

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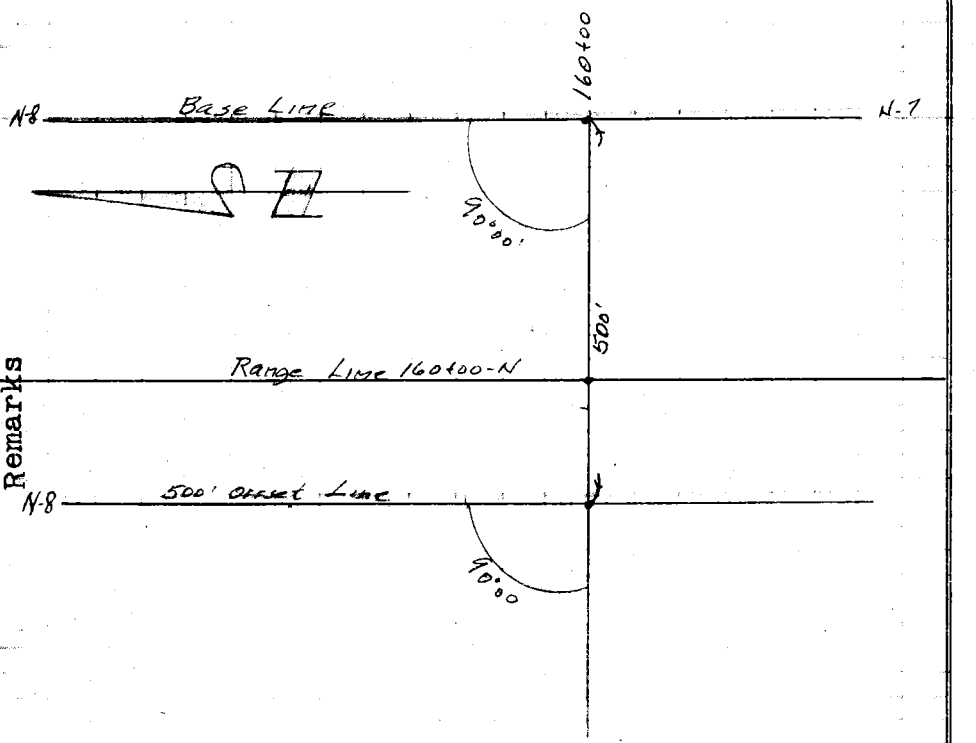

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At on	#	Color	Time	Hor. Ang.	
	1		7:00	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19		7:04	90° 00'	

N-8

160400-N
ON 500' OFFSET LINE

761298 307 8-53

F.B. 2303 PG. 22

Job No. 8300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
160+00-N ON 500' Effect line N-8						
					Range Line 160+00-N	

76L298 307 8-53

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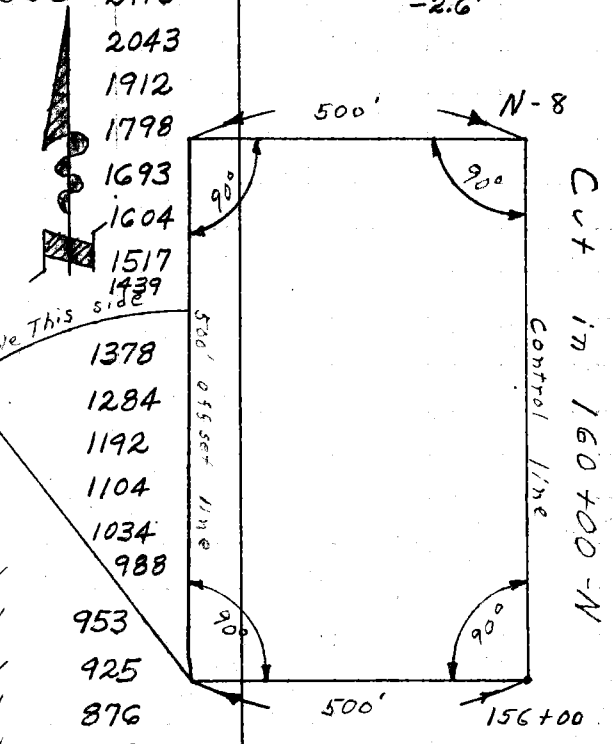
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color		Time	Hor. Ang.		
	1	28.2	25.6	7:00	76° 07'	1618+500	2118
	2	27.5	24.9		75° 28'	1543	2043
	3	26.7	24.1		74° 11'	1412	1912
	4	25.7	23.1		72° 52'	1298	1798
	5	25.1	22.5		71° 28'	1193	1693
	6	24.5	21.9		70° 05'	1104	1604
	7	23.8	21.2		68° 32'	1017	1517
	8	23.1	20.5		66° 53'	939	1439
	9	22.5	19.9		65° 30'	878	1378
	10	21.8	19.2		62° 58'	784	1284
	11	21.2	18.6		59° 58'	692	1192
	12	20.6	18.0		56° 28'	604	1104
	13	19.8	17.2		53° 09'	534	1034
	14	18.7	16.1		50° 41'	488	988
	15	17.7	15.1		48° 32'	453	953
	16	17.2	14.6		46° 45'	425	925
	17	15.7	13.1		43° 12'	376	876
	18	13.4	10.8		38° 30'	318	818
	19	11.5?	8.5? 8.9?	7:04	33° 57'	269	769

Zero Adj. -0.6
Boat Adj. +1.0
Tide -3.0
-2.6



156+00

N-8

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 23
No. Date Date Survey of Beach Erosion study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Date

F. B. 2303 Pg. 24 | Job No. 2300.03 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-18-55 | Date | No.

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

Indexed A. C. Johnson 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 S & E #307 9-54

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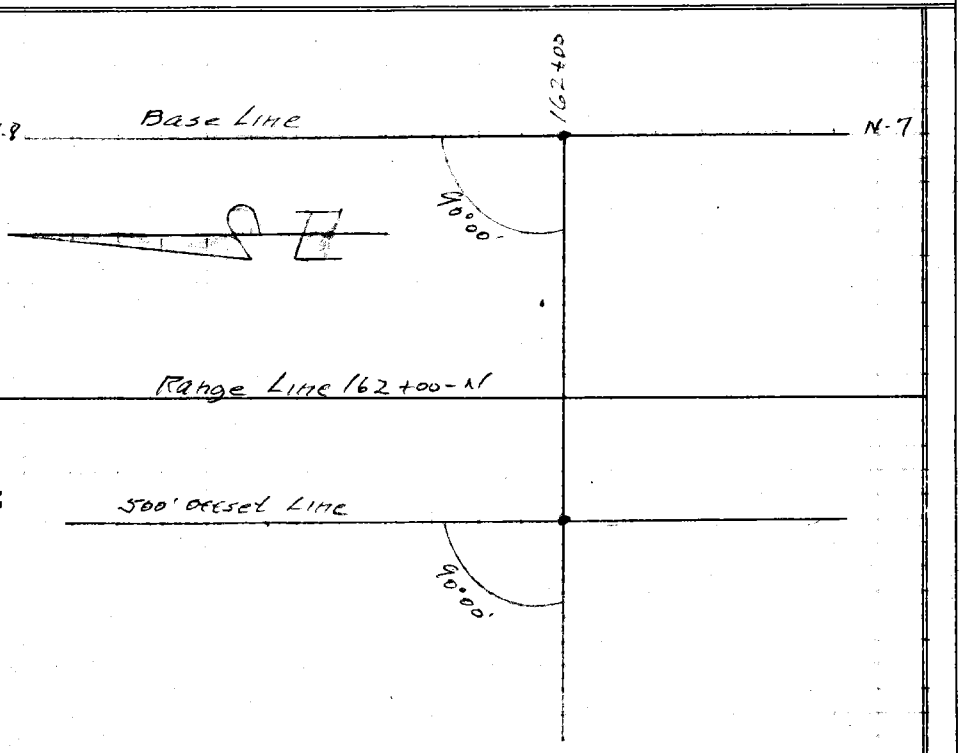
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at N-7	Sight on 162+00
T.P.	412	18 81		14 69	T.P. 1x2 N 158+00, (500 FT. L.)	
162+00			47	14 1		
100 FT LEFT			50	13 8		
200 " "			60	12 8		
300 " "			58	13 0		
400 " "			63	12 5		
500 " "			41	14 7		
526			39	14 9	BRK	
552			62	12 6	BRK	
575			109	7 9	NEAR WATER	
T.P.	-0 3	8 0	10 54	8 27		
			4 5	3 5	9° 30' 106' +500 = 606	
			11 2	-3 2	17 05 195' 695	
			15 5	-7 5	21 24 248' 748	
			19 5	-11 5	25 07 297' 797	

INSHORE
N. 162+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 25
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by PREIER ENGLISH Notes GD & EE Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0305.02	Division No. 10	F. B. 2303	Pg. 27
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by [illegible]	Notes [illegible]	Date 8-18-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1		7:19	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'	

N-8

162+00-N

On 500' OC

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2303 Pg. 28 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed K. C. Johnson Date Date Date No.

76L298 307 8-53

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

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
162+00-N						
11.8						
	21		7:24	90°		
					Range Line 162+00-N	

76L298 307 8-53

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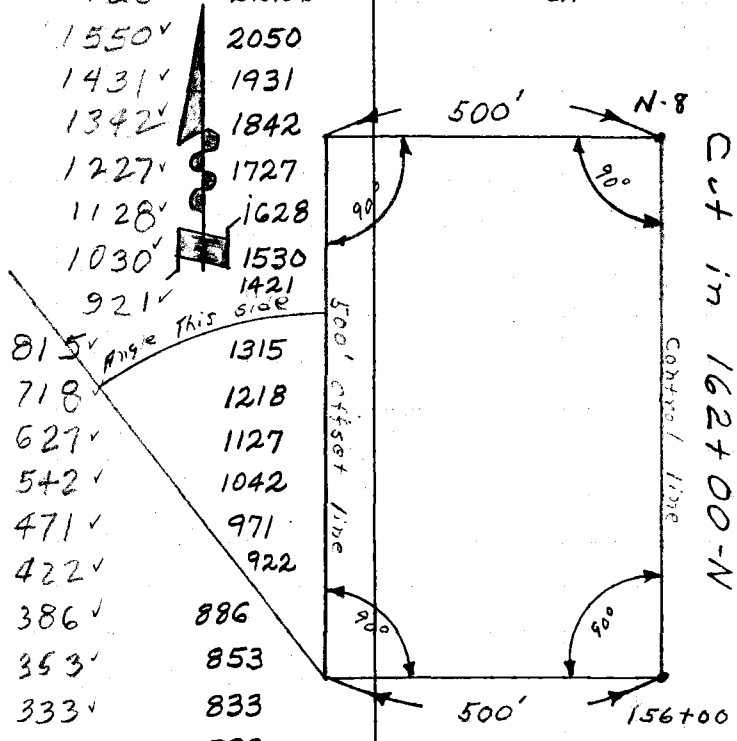
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2302.2 Division No. LD F.B. 2303 Pg. 29
No. Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Dorn Notes R.T. Date 8-18-55
No. Date Map No. Indexed Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At / On	#	Color	Time	Hor. Ang.			Zero Adj. -0.6 ✓ Boat Adj. +1.0 Tide -3.5 -3.1
	1	29.8 26.7	7:19	70° 50'	1726 ✓	2226	
	2	28.3 25.2		68° 50'	1550 ✓	2050	
	3	27.0 23.9		67° 15'	1431 ✓	1931	
	4	26.4 23.3		65° 55'	1342 ✓	1842	
	5	25.6 22.5		63° 56'	1227 ✓	1727	
	6	24.8 21.7		62° 00'	1128 ✓	1628	
	7	24.1 21.0		59° 46'	1030 ✓	1530	
	8	23.6 20.5		56° 55'	921 ✓	1421	
	9	22.7 19.6		53° 38'	815 ✓	1315	Angle This Side
	10	22.2 19.1		50° 08'	718 ✓	1218	
	11	21.0 17.9		46° 15'	627 ✓	1127	
	12	20.2 17.1		42° 07'	542 ✓	1042	
	13	18.7 15.6		38° 08'	471 ✓	971	
	14	17.9 14.8		35° 09'	422 ✓	922	
	15	16.8 13.7		32° 45'	386 ✓	886	
	16	16.2 13.2		30° 28'	353 ✓	853	
	17	15.3 12.2		29° 00'	333 ✓	833	
	18	14.3 11.2		26° 38'	299 ✓	799	
	19	11.9 8.8		24° 17'	271 ✓	771	
	20	10.9 7.8		22° 14'	245 ✓	745	

Inst. At 156+00 On 8-N



F.B. 2303 PG. 30 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 Date No.

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

Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21 void		7:24	20° 27' 224V	724 in Cut-in 162+00 -N

156+00

N-8

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 31
No.	Date	Date	Survey of BEACH EROSION STUDIES			
X-Sec.	Notes Chkd.	Checked	Survey by DREIER ENGLISH	Notes G.D. & E.E.	Date 8-18-55	
No.	Date	Date	Map No. ~~Indexed~~ Johnson		Date	

INSHORE

N. 164+00

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 160+00	Sight on 162+00
T.P.	412	1881		1469	T.P. 1x2 N. 158+00	(500 FT. LEFT of [illegible])
T.P.	457	1779	559	1322		
164+00			42	136		
100 FT LEFT			36	142		
200 " "			47	131		
300 " "			61	117		
400 " "			56	122		
500 " "			30	148		
514 " "			29	149		
542 " "			54	124		
T.P. 569 " "	0 57	853	985	794		
			58	27	11° 16'	80' (120)
			111	-26	17 12	124 (186)
			150	-55	21 51	160 (241)
			185	-100	25 44	193 (289)

OFFSET LINE

ERR

assuming 400' base → 580

assuming 600' base → 620

assuming 400' base → 624

assuming 600' base → 686

assuming 400' base → 660

assuming 600' base → 741

assuming 400' base → 693

assuming 600' base → 789

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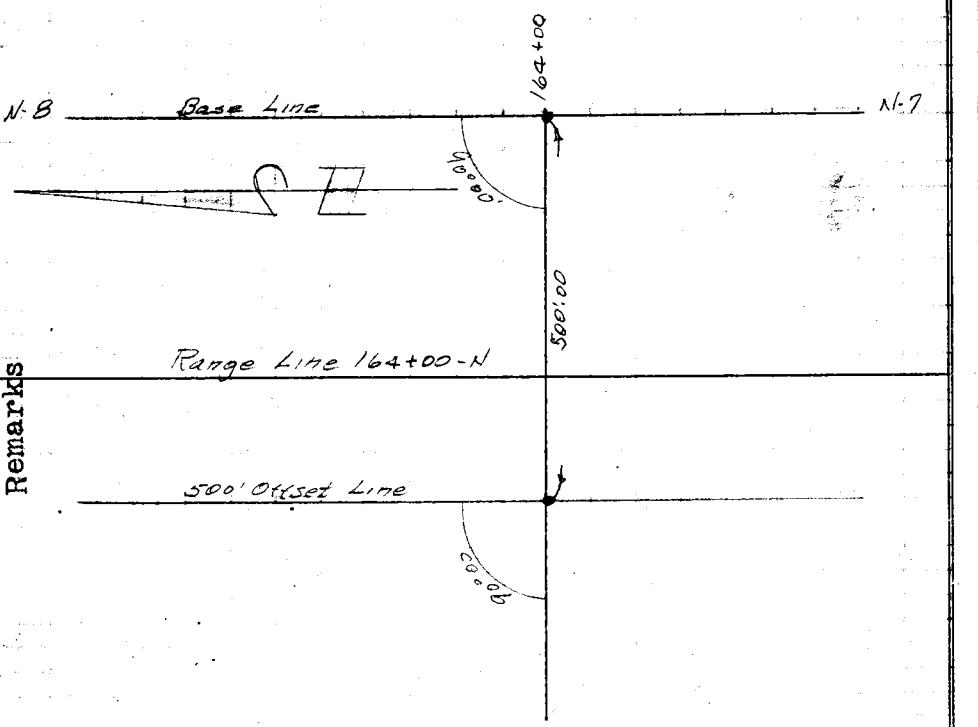
76L298 S & E #307 9-54

F. B. 2303 Pg. 33

Profile No. | Notes Red. | Date | Plotted | Date | Job No. 6300.02 Division No. 10
X-Sec. No. | Notes Chkd. | Date | Checked | Date | Survey of Beach Erosion
Survey by Van Duren Notes J.V.C. Date 8-18-55
Map No. Indexed O. Johnson Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
N-8	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'	
164+00-N					
0M 500' Offset 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.

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726 Los Angeles County Engineering Bldg.

76L298 307 8-53

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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F.B. 25203 Pg. 34 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 Notes J.N.E.

Survey by Kay Deren & Johnson Date

Indexed

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21			90° 00'		
		22		7:34	90° 00'		
						Range Line	164+00-N
164+00-N	N-8						

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 CIROLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

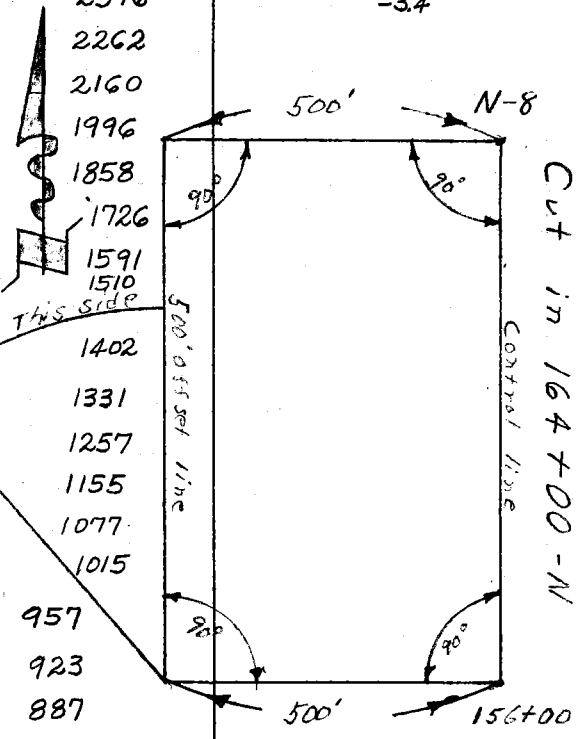
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At Cn	#	Color		Time	Hor. Ang.		Remarks
	1	31.1	27.7	7:29	66° 54	1876	2376
	2	30.2	26.8		65° 35	1762	2262
	3	29.4	26.0		64° 16'	1660	2160
	4	27.2	23.8		61° 52'	1496	1996
	5	26.3	22.9		59° 30	1358	1858
	6	25.6	22.2		56° 52'	1226	1726
	7	24.7	21.3		53° 45'	1091	1591
	8	24.7	21.3		51° 37'	1010	1510
	9	23.2	19.8		48° 25'	902	1402
	10	22.8	19.4		46° 05'	831	1331
	11	22.7	19.3		43° 25'	757	1257
	12	21.9	18.5		39° 18'	655	1155
	13	20.9	17.5		35° 48'	577	1077
	14	20.0	16.6		32° 46'	515	1015
	15	18.8	15.4		29° 44'	457	957
	16	17.8	14.4		27° 52'	423	923
	17	17.0	13.6		25° 50'	387	887
	18	16.5	13.1		23° 51'	354	854
	19	15.4	12.0		22° 12'	326	826
	20	13.8	10.4		20° 20'	296	796

156+00

N-8

Zero Adj. -0.6
Boat Adj. +1.0
Tide -3.8
-3.4



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 35
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

76L298 307 8-53

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Do not extend notes this side of this line.

F.B. 2303 Pg. 36 | Job No. 03 00.02 Division No. 10 Notes Red. Date 8-18-55 Plotted Date
Survey of Beach Erosion Study Notes Checked Date
Survey by Van Deren Notes RT Notes Chkd. Date
Indexed K. C. Johnson Date

Profile No. X-Sec. No.

STATION At / On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.			Remarks
Inst. Sight							Cut-in
	21	12.5	9.1	18° 55'	273	773	167+00-N
	22	10.6	7.2	7:34 19° 08	247	747	
156+00-N							
N-8							

76L298 S & E #307 9-54

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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. 158+00	Sight on [illegible]
T.P.	4 12	18 81		1469	T.P., 1X2 158+00, 500 FT. LEFT. [illegible]	
T.P.	4 57	17 79	5 59	13 22		
166+00			4 0	13 8		
100			3 9	13 9		
200			4 7	13 1		
300			6 2	11 6		
400			5 6	12 2		
500			3 2	14 6		
512			3 1	14 7	BRK	
575			9 1	8 7	NEAR WATER	
T.P.	0 59	8 53	9 85	7 94		
			5 1	3 4	7° 53' 111 + 500	off = 611
			9 5	-1 0	11 25 162	662
			13 5	-5 0	15 16 218	718
			18 0	[illegible]	18 59 275	775

INSHORE
N. 166+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 37
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DRIVER ENGLISH Notes G.D.&E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 Pg. 39

Profile No. ____ X-Sec. No. ____

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

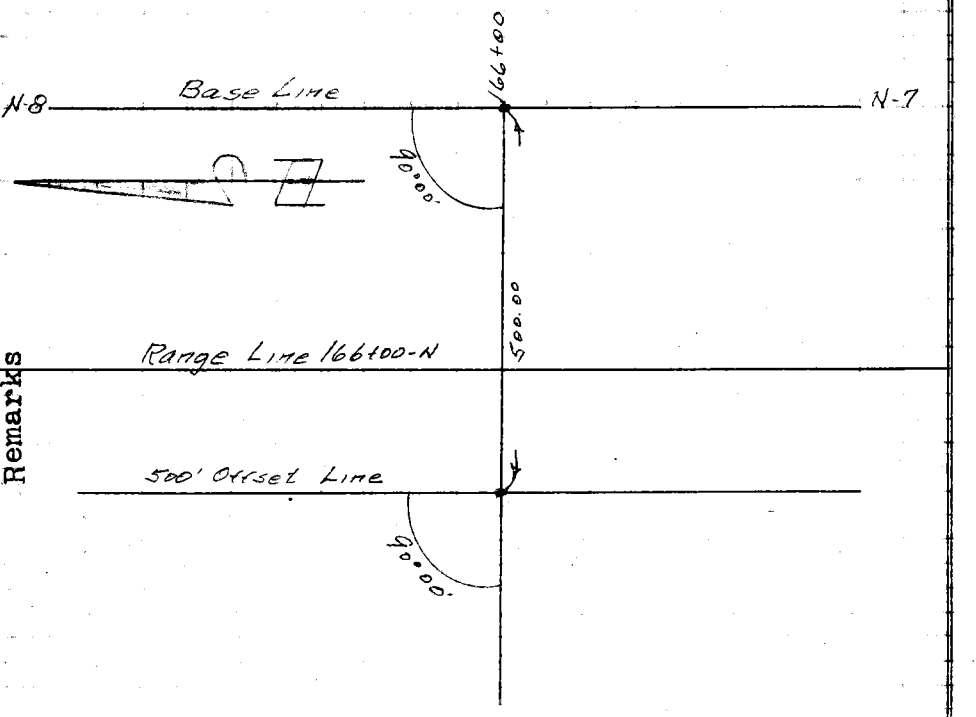
Plotted ____ Date ____ Checked ____ Date ____

Job No. 9380.02 Division No. 10

Survey of Beach Erosion

Survey by Van Deren Notes J.V.E. Date 8-18-55

Map No. ____ Indexed G. Johnson Date ____



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sign	#	Color	Time	Hor. Ang.	
At CH	1		7:32	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		7:47	90° 00'	

N-8

166+00-N
On 500' Offset Line

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761.298 307 8-53

F. B. 4303 Pg. 40 | Job No. 8300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

166400-N

N-8

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. sight on	#	Color	Time	Hor. Ang.	
					Range Line
					166400-N

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76L298 307 8-53

76L298 307 8-53

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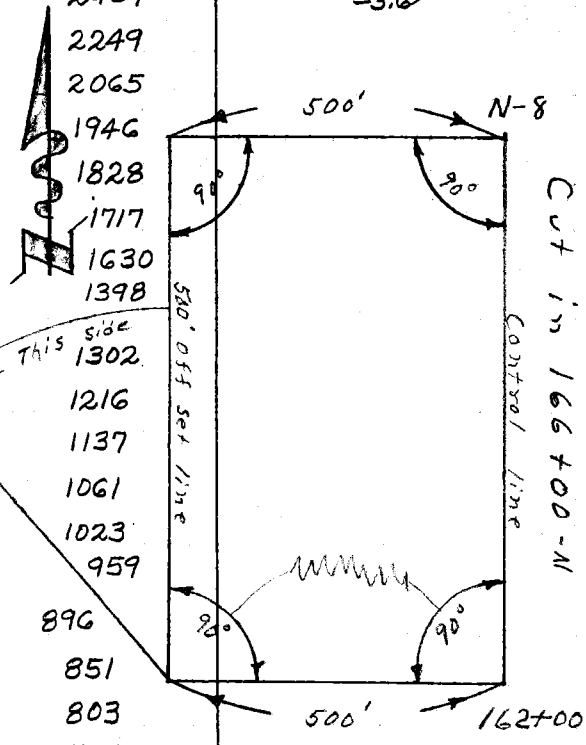
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At On	#	Color		Time	Hor. Ang.			Remarks
	1	31.5	27.9	7:42	78° 31'	1969	2469	Zero Adj. -0.6
	2	30.3	26.7		77° 07'	1749	2249	Boat Adj. +1.0
	3	29.1	25.5		75° 40'	1565	2065	Tide -4.0
	4	28.0	24.4		74° 32'	1446	1946	-3.6
	5	26.9	23.3		73° 14'	1328	1828	
	6	26.2	22.6		71° 48'	1217	1717	
	7	25.3	21.7		70° 30'	1130	1630	
162+00 N-8	8	24.0	20.4		66° 00'	898	1398	
	9	23.2	19.6		63° 30'	802	1302	
	10	22.6	19.0		60° 49'	716	1216	
	11	21.3	17.7		57° 52'	637	1137	
	12	21.2	17.6		54° 30'	561	1061	
	13	20.3	16.7		52° 36'	523	1023	
	14	19.1	15.5		48° 56'	459	959	
	15	17.5	13.9		44° 42'	396	896	
	16	16.3	12.7		41° 18'	351	851	
	17	14.4	10.8		37° 10'	303	803	
	18	12.3	8.7		33° 16'	262	762	
	19	10.5	6.9		29° 50'	229	729	
	20	8.1	4.5	7:47	28° 17'	215	715	

Angle This side



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 41
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Date

F. B. 2303 PG. 42 | Job No. 0300.02 Division No. 10 Notes Red. Plotted | Profile

Survey of Beach Erosion Study Date 8-18-55 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 OR	#	Color	Time			

76L298 3C7 8-53

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76L298 S & E #307 9-54

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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. @ 164+00	Sight on 168+00
166+00 T.P. (Line 2)	4 57	17 79		1322		(500 ft. offset in
T.P.	4 65	17 62	4 82	1297		
168+00			2 5	15 1		
100 FT. L.			33	143		
200 " "			47	12 9		
300 " "			60	11 6		
400 " "			56	12 0		
500 " "			32	14 4		
" "			31	145 ~~147~~	BRK	
511 T.P. 559 " "	-0 1	8 9	862	9 00		
			4 0	4 9	13° 10' 94' +500 off	= 594
			10 4	-1 5	23 19 172'	672
			15 0	-6 1	29 47 229'	729
			19 5	-10 6	37 09 303'	803

INSHORE
N. 168+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 43
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D. & E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile No. ____ X-Sec. No. ____

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

Plotted ____ Date ____ Checked ____ Date ____

Job No. 8300.02 Division No. 10

Survey of Beach Erosion

Survey by Van Dorn Notes J.V.E Date 8-18-53

Map No. ____ Indexed L.G. Johnson Date ____

F. B. 2303 Pg. 45

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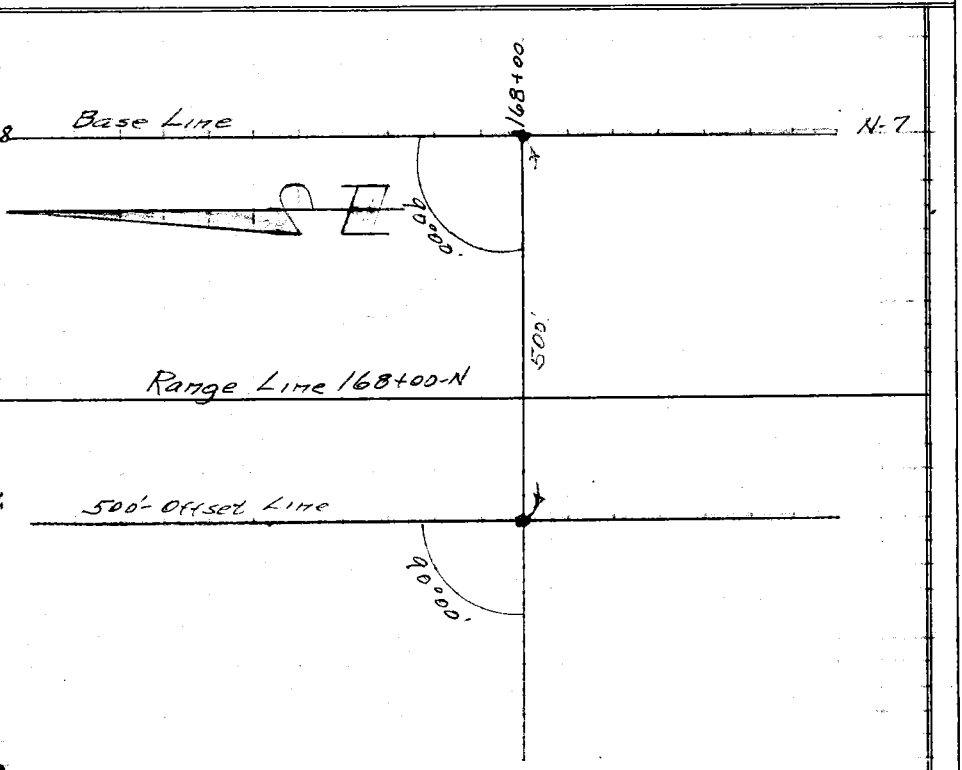
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sign	#	Color	Time	Hor. Ang.	
At ON	1		7:54	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'	

N-8

168+00-N

On 500' offset Line

761298 307 8-53

F.B. 2303 PG. 46 Job No. 2300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

168+00-N

On 500' Offset Line

N-8

STATION	B.S.	H.I.	F.S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	21			90° 00'		
	22		7:59	90° 00'		

Range Line 168+00-N

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.

76L298 307 8-53

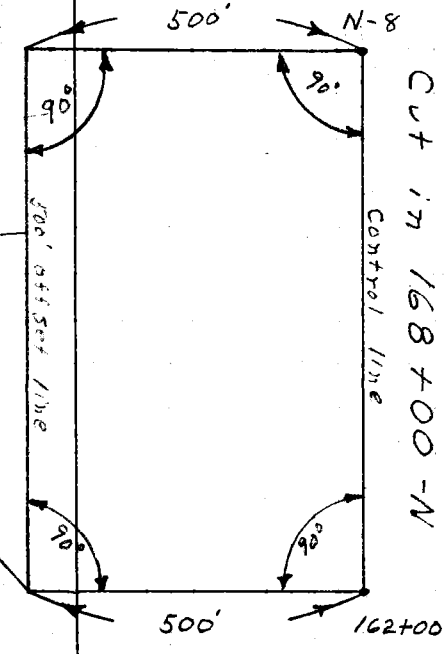
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1	void	7:54	71° 21'	1778	2278
	2	void 29.4 25.6		69° 52'	1637	2137
	3	void 28.5 24.7		68° 49'	1548	2048
	4	void		67° 30'	1449	1949
	5	27.5 23.7		66° 13'	1361	1861
	6	26.9 23.1		64° 48'	1275	1775
	7	26.0 22.2		63° 16'	1191	1691
	8	25.2 21.4		61° 25'	1101	1601
	9	25.0 21.2		59° 20'	1012	1512
	10	24.3 20.5		57° 05'	927	1427
	11	23.5 19.7		54° 26'	839	1339
	12	22.2 18.4		48° 27'	677	1177
	13	21.2 17.4		43° 08'	562	1062
	14	19.8 16.0		39° 08'	488	988
	15	18.6 14.8		36° 00'	436	936
	16	17.7 13.9		33° 20'	395	895
	17	17.0 13.2		31° 16'	364	864
	18	15.8 12.0		28° 50'	330	830
	19	14.7 10.9		26° 15'	295	795
	20	12.8 9.0		24° 20'	271	771

Zero Adj. -0.7
Boat Adj. +1.0
Tide -4.1
-3.8



Angle This side

Cut in 168+00-N

162+00 N-8

Profile Notes Red. Plotted Job No. 2300.02 Division No. 10 F.B. 2303 Pg. 47
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Dere Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed S. Johnson Date

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F.B. 2383 Pg. 48 Job No 3220.02 Division No. 10 Notes Red. Date 8-18-55 Plotted Date Checked Date

Survey of Beach Erosion Study Notes A.T. Date

Survey by Van Deren Notes Chkd. Date

Indexed K. C. Johnson Date

Profile No. X-Sec. No.

STATION At	On	B. S. #	H. I. Color		F. S. Time	ELEV. Hor. Ang.		Remarks
								Cut-in 168+00-N
		21	11.3	7.5		22° 12'	245	745
162+00	N-8	22	9.2	5.4	7:59	19° 36'	214	714

76L298 S & E #307 9-54

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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.

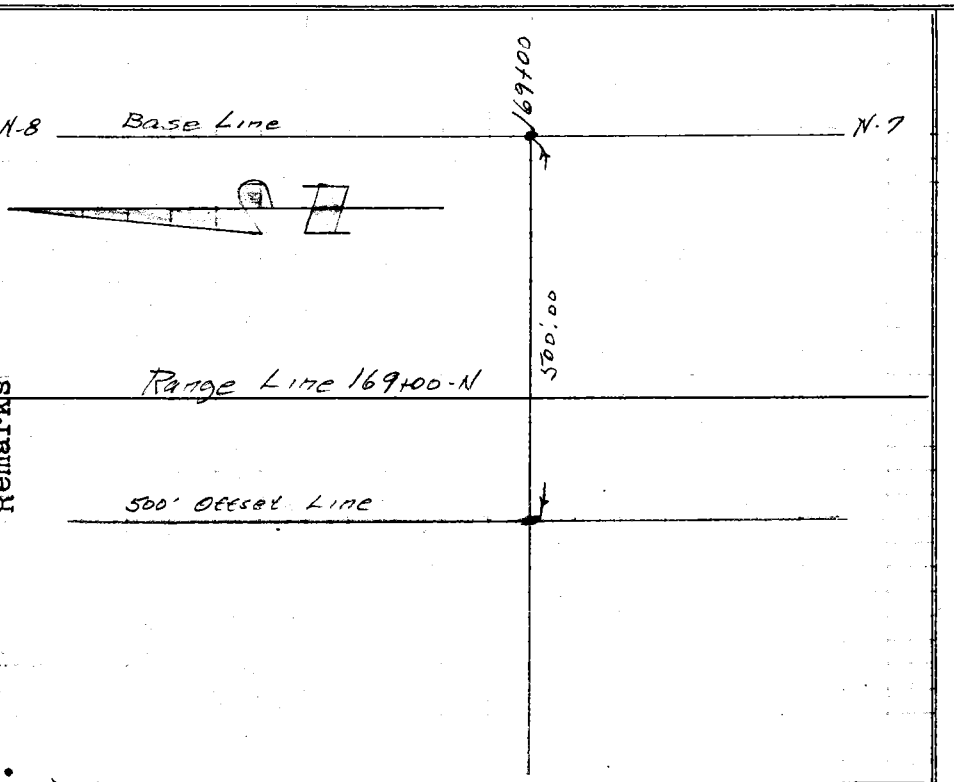
Do not extend notes this side of this line. Cut in ∡.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 164+00		Sight on 169+00
T.P. (2nd LINE)	4 57	17 79		13 22			(50 ft. [illegible])
T.P.	4 65	17 62	4 82	12 97			
169+00			2 5	15 1			
100 FT LEFT			3 2	14 4			
200 " "			4 7	12 9			
300 " "			6 0	11 6			
400 " "			5 6	12 0 ~~12 1~~			
500 " "			3 2	14 4			
508 " "			3 2	14 4		BRK	
517 " "			6 4	11 2		BRK	
575			10 8	6 8		NEAR WATER	
T.P.	-0 1	8 9	8 62	9 00			
			5 4	3 5	11° 49'	105	605
			10 4	-1 5	19 06	173	673
			16 0	-7 1	26 06	246	746
			20 0	-11 1	31 50	310	810

INSHORE
N. 169+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 49
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes C.D. PEE Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile No.	Notes Red.	Plotted	Job No. 8300.02	Division No. 10	F. B. 2303	Pg. 51
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Deren	Notes V.J.E.	Date 8-18-55	
	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		8:03	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'	

N-8

169+00-N

On 500' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2303 Pg. 52 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

761.298 307 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
Inst. Sight On	#	Color	Time			
						169400-N
N-8						
	21				90° 00'	
	22				90° 00'	
	23				90° 00'	
	24				90° 00'	
	25				90° 00'	Range Line
	26		8:08		90° 00'	
						169400-N

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.

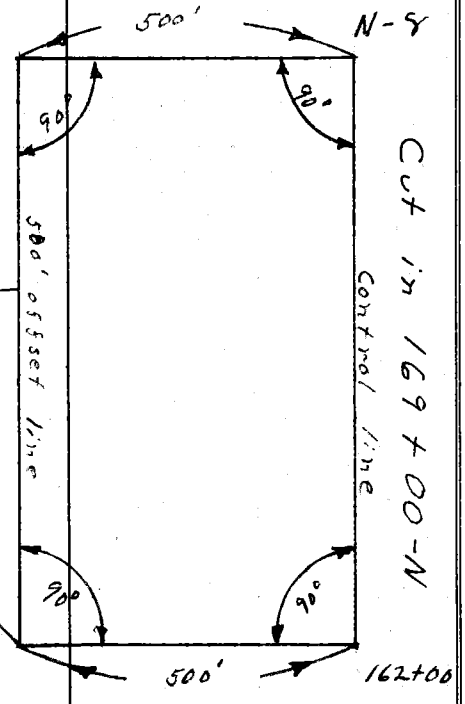
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		Remarks
	1	32.2 ✓ 28.2	8:03	70° 20'	1959 ✓	2459
	2	31.3 ✓ 27.3		69° 01'	1825 ✓	2325
	3	30.4 ✓ 26.4		67° 37'	1700 ✓	2200
	4	[illegible] ✓ 25.2		66° 30'	1610 ✓	2110
	5	[illegible] ✓ 24.4		65° 00'	1501 ✓	2001
	6	28.0 ✓ 24.0		64° 04'	1433 ✓	1939
	7	[illegible] ✓ 23.3		62° 40'	1354 ✓	1854
	8	[illegible] ✓ 22.5		60° 56'	1259 ✓	1759
	9	26.2 ✓ 22.2		59° 05'	1169 ✓	1669
	10	25.3 ✓ 21.3		56° 56'	1075 ✓	1575
	11	24.5 ✓ 20.5		54° 44'	990 ✓	1490
	12	23.7 ✓ 19.7		51° 51'	891 ✓	1391
	13	23.3 ✓ 19.3		49° 05'	808 ✓	1308
	14	22.7 ✓ 18.7		46° 25'	735 ✓	1235
	15	21.5 ✓ 17.5		42° 04'	632 ✓	1132
	16	21.0 17.0		38° 12'	551 ✓	1051
	17	20.3 ✓ 16.3		35° 28'	499 ✓	999
	18	19.9 ✓ 15.9		33° 27'	462 ✓	962
	19	19.2 ✓ 15.2		31° 38'	431 ✓	931
	20	18.3 ✓ 14.3		30° 00'	404 ✓	904

162+00

N-8

Zero Adj. -0.7
Boat Adj. +1.0
Tide -4.3
-4.0



Angle this side

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 53
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks	
								Cut-in
		21	17.2 ✓ 13.2		27° 58	372 ✓	872	169+00 N
		22	16.2 ✓ 12.2		26° 08	343 ✓	843	
		23	14.6 ✓ 10.6		23° 34	303 ✓	803	
		24	13.3 ✓ 9.3		21° 00	269 ✓	769	
		25	10.9 ✓ 6.9		19° 15	244 ✓	744	
		26	9.4 ✓ 5.4	8:08	17° 00	214 ✓	714	
162+00	N-8							

F.B. 2303 Pg. 54 Job No. 0300.02 Division No. 10 Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date 8-18-55 Date X-Sec.
Survey by Van Deven Notes R.T. Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

76L298 S & E #307 9-54

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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.

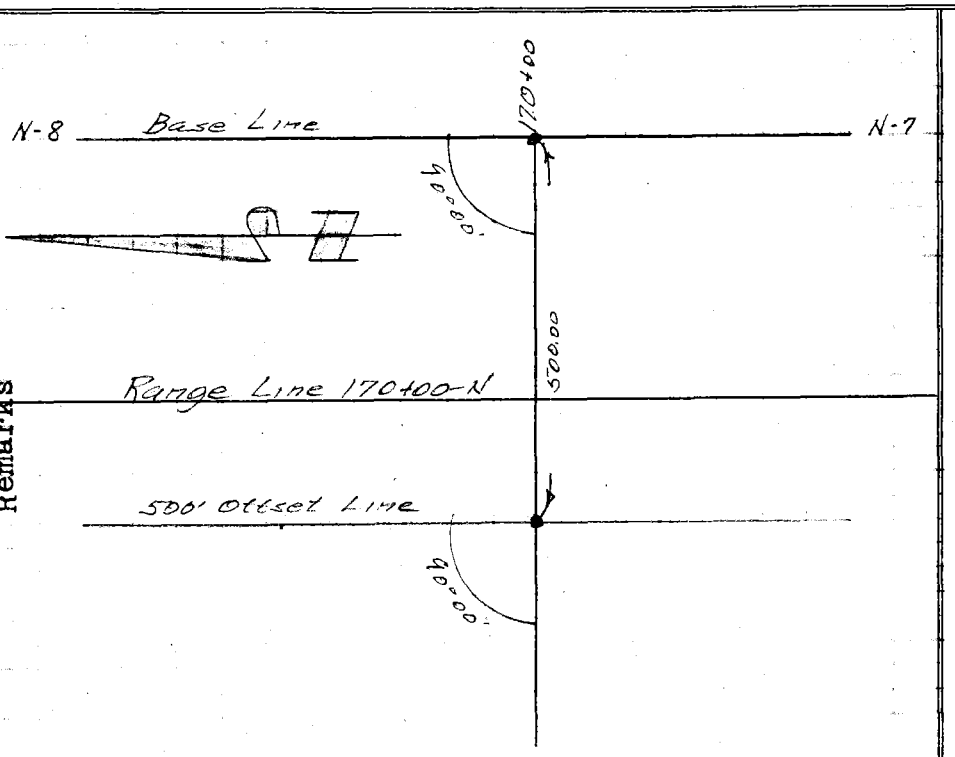
Do not extend notes this side of this line. Cut-in ✗

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 164+00 (500' offset)		Sight on 170+00
171+00							
T.P. (LINES)	4 65	17 62		1297			
T.P.	353	17 93	322	1446			
170+00			31	148			
100 FT.L			38	141			
200 " "			52	127			
300 " "			52	127			
400 " "			53	126			
500 " "			36	143			
510 " "			36	143		BRK	
518 " "			54	125		"	
536 " "			83	96		"	
5	0 00	8 F2	911	882			
			54	34	10° 35'	112	612
			103	-15	16 19	176	676
			45	-57	21 01	231	731
			185	-97	25 37	288	788

INSHORE
N. 170 +00

Profile Notes Red_____ Plotted_____ Job No. 300.02 Division No. 10 F. B. 2303 Pg. 55
No._____ Date_____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd._____ Checked_____ Survey by ENGLISH Notes E.G. & E. Date 8-18-55
No._____ Date_____ Map No._____ Date_____ Date_____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 57
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-18-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CR	#	Color	Time	Hor. Ang.	
	1		8:12	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'	
				8:16	

N-8

170+00-N On 500' Offset 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.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F.B. 2303 PG. 58 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.

170+00-N

On 500' Offset Line

H-8

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

Range Line 170+00-N

76L298 307 8-53

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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.

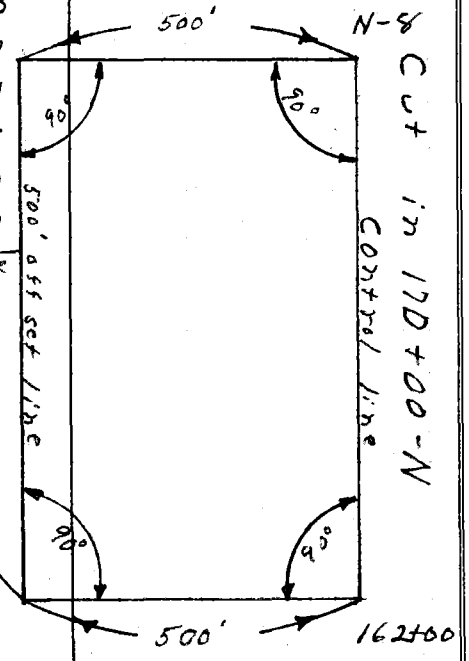
STATION	B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color		Time	Hor. Ang.		
	1	31.0	26.9	8:12	64° 57'	1712	2212
	2	29.9	25.8		63° 36'	1612	2112
	3	28.7	24.6		61° 10'	1453	1953
	4	27.4	23.3		58° 32'	1307	1807
	5	26.2	22.1		54° 58'	1141	1641
	6	25.7	21.6		51° 14'	996	1496
	7	24.0	19.9		47° 44	880	1380
	8	23.2	19.1		43° 53'	769	1269
	9	22.4	18.3		39° 43'	665	1165
	10	21.1	17.0		34° 28'	549	1049
	11	19.5	15.4		29° 33'	454	954
	12	18.2	14.1		27° 25'	415	915
	13	17.4	13.3		25° 23'	380	880
	14	16.4	12.3		23° 46'	352	852
	15	15.3	11.2		21° 53'	321	821
	16	14.0	9.9		20° 00'	291	791
	17	12.7	8.6		18° 08'	262	762
	18	10.4	6.3		16° 16'	233	733
	19	8.5	4.4	8:16	14° 31'	207	707

Zero Adj. -0.7
Boat Adj. +1.0
Tide -4.4
-4.1

-4.5

162+00

N-8



Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 59
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Date

F.B. 2303 Pg. 60 | Job No. 2300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date 8-18-55 | Date | No.

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

Indexed | Date | Date | Date | No.

76L298 307 8-53

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726 Los Angeles County Engineering Bldg.

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Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

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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. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 168+00		Sight on 171+00
171+00 T.P. (LINE 2)	4 65	17 62		12 97			
T. P.	3 53	17 93	3 22	14 40			
171+00			4 9	13 0			
100 FT L.			3 5	14 4			
200 " "			4 6	13 3			
300 " "			4 8	13 1			
400 " "			5 3	12 6			
500 " "			3 7	14 2			
508 "			3 7	14 2		BRK	
			9 0	8 9		NEAR WATER	
T. P.	-0 1	8 72	9 11	8 82			
			4 1	4 6	18° 22'	100 ✓ + 500	600
			8 0	0 7	26 53	152 ✓	652
			12 1	-3 4	34 02	203 ✓	703
			15 3	-6 6	38 52	242 ✓	742
			17 2	-9 5	41 57	270 ✓	770

INSHORE
N. 171+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 PG. 61
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D.E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Johnson Date ____

F. B. 2303 Pg. 63

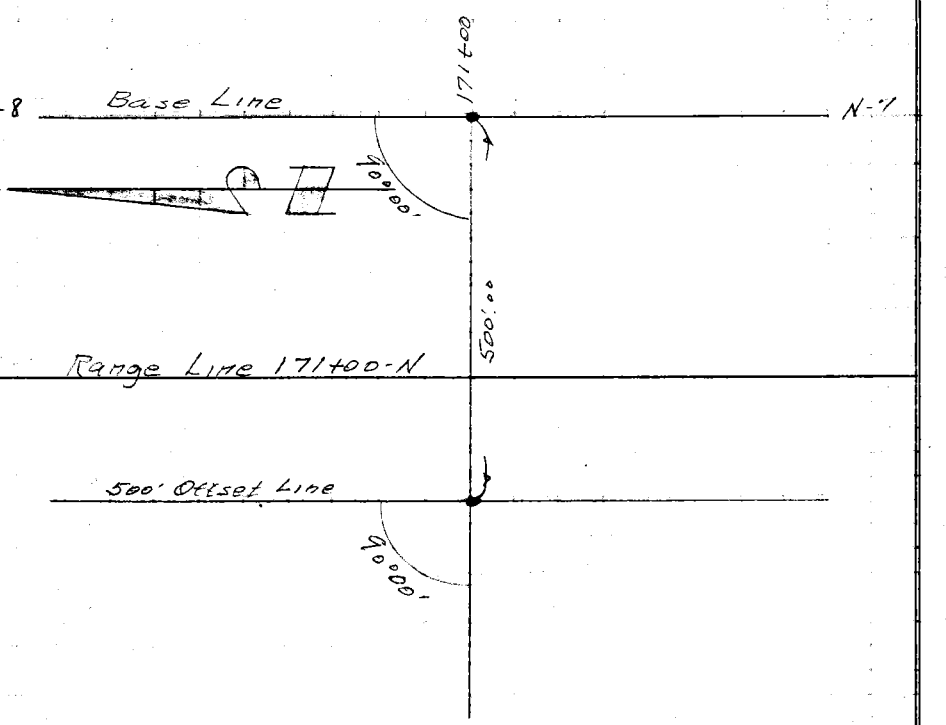
Profile No. ____ X-Sec. No. ____

Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8300.02 Division No. 12

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion

Survey by Van Deren Notes J.L.E Date 8-18-53

Map No. ____ Checked Johnson Date ____



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

N-8

171400

On 500' Offset Line

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 8-53

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F.B. 2303 Pg. 69 Job No. 0300.02 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Date Date No.
Survey by Ayres Notes N.W.E. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

STATION At	STATION On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
~~Inst. Sight~~							
		21			90° 00		
		22		8 28	90° 00		
						Range Line	171+00-N
171+00-N	N-8						

76L298 307 8-53

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

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

Do not extend notes this side of this line.

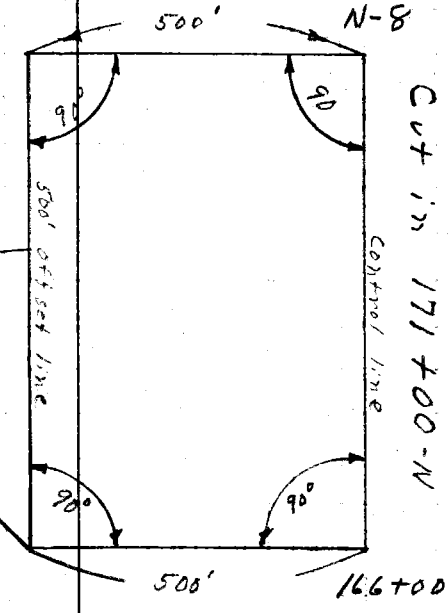
STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At Ch	#	Color		Time	Hor. Ang.		Remarks
	1	30.7	26.4	8:24	74° 16'	1775	2275
	2	29.7	25.4		72° 40'	1602	2102
	3	29.1	24.8		71° 24'	1486	1986
	4	27.8	23.5		69° 55'	1368	1868
	5	27.2	22.9		68° 57'	1299	1799
	6	26.2	21.9		68° 10'	1248	1748
	7	25.6	21.3		64° 43'	1059	1559
	8	25.2	20.9		63° 36'	1007	1507
	9	24.4	20.1		61° 24'	917	1417
	10	23.5	19.2		58° 53'	828	1328
	11	23.0	18.7		55° 42'	733	1233
	12	22.3	18.0		52° 12'	645	1145
	13	21.4	17.1		49° 18'	581	1081
	14	20.5	16.2		45° 15'	504	1004
	15	19.7	15.4		42° 36'	460	960
	16	18.3	14.0		39° 45'	416	916
	17	17.8	13.5		37° 30'	384	884
	18	16.4	12.1		34° 59'	350	850
	19	15.5	11.2		32° 30'	319	819
	20	13.5	9.2		29° 22'	281	781

Zero Adj. -0.7
Boat Adj. +1.0
Tide -4.6
-4.3 - 4.7

166+00

N-8

Angle This side



Cut in 171+00-N

Profile Notes Red. Plotted Job No. 03000.02 Division No. 10 F.B. 2303 Pg. 65
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F.B. 2303 Pg. 66 | Job No 2360.12 Division No. 12 Notes Red. Date 8-18-55 Plotted Date
Survey of Beach Erosion Study
Survey by Van Doren Notes K.T. 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	10.9 6.6	8:28	25° 28	738	Cut-in in 171+00-N
166+00 N-8						

76L298 S & E #307 9-54

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.

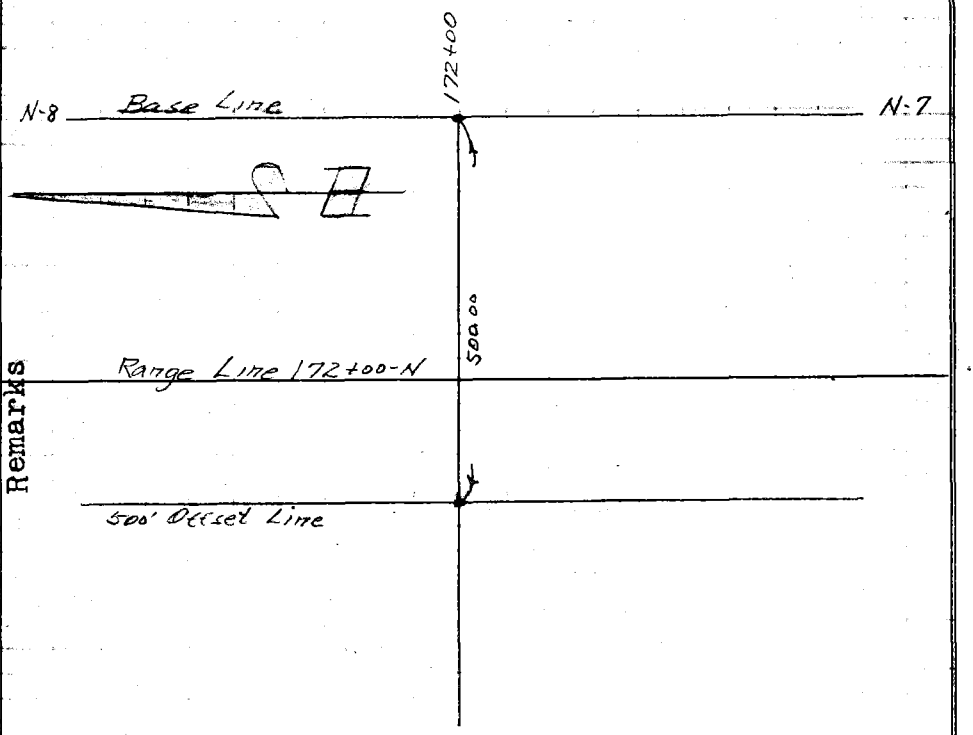
Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 168+00	Sight on 172+00
171+00	3 53			1440	(500 [illegible])	
T.P. (2nd line)	~~4 65~~	~~17 93~~		~~12 97~~		
T.P.	3 92	~~10 09~~	3 76	~~14 12~~	T.P. 1X2 172+00 500 FT LEFT	
172+00			5 4	~~13 7~~		
100 FT LEFT			5 3	~~13 4~~		
200 " "			5 1	~~13 0~~		
300 " "			5 3	~~12 8~~		
400 " "			5 8	~~12 3~~		
500 " "			4 1	~~12 0~~		
513 " "			4 9	~~12 2~~		
T.P. 570 "	1 2	~~8 [illegible]~~	10 63	~~9 46~~		
			9 6	~~7 1~~	15 28 111 +	611
			10 [illegible]	~~7 7~~	25 01 178	678
			14 5	~~5 8~~	30 33 236	736
			19 [illegible]	~~11 5~~ -10 5	36 50 300	800

INSHORE
N. 172+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 PG. 67
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G. DEEE Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 69
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deven	Notes J.J. E.	Date 8-18-55	
No.	Date	Date	Map No.	Indexed R. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.	
	1		8 34	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'	

N-8

172+00-N

On 500' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2303 Pg. 70

Job No. 930.01 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Doren Notes J.V.E 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.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH 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
172+00-N						
N-8						
At Station	#	Color	Time			Range Line
						172+00-N

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

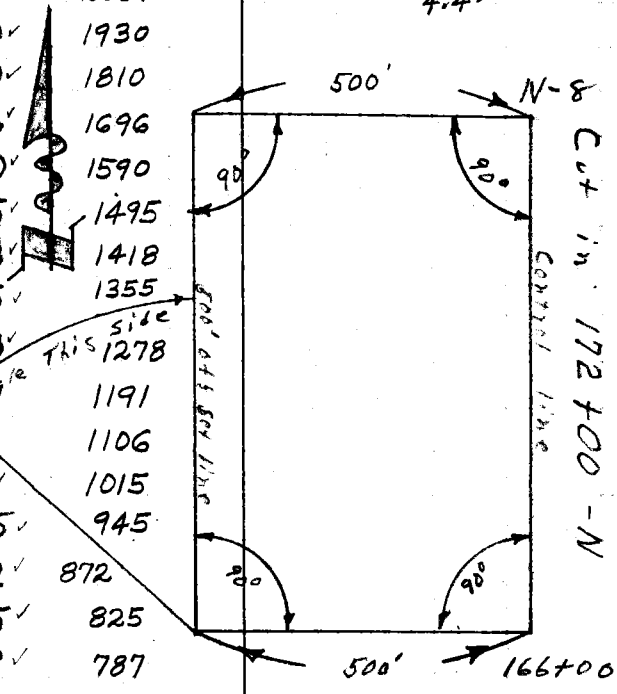
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At Ch	#	Color		Time	Hor. Ang.			Remarks
	1	29.5 void	25.1	8:34	68°	36'	1531	2031
	2	28.5	24.1		67°	14'	1430	1930
	3	27.7	23.3		65°	23'	1310	1810
	4	26.7	22.3		63°	22'	1196	1696
	5	26.0	21.6		61°	10	1090	1590
	6	25.2	20.8		58°	55	995	1495
	7	24.7	20.3		56°	50	918	1418
	8	24.2	19.8		54°	57	855	1355
	9	23.3	18.9		52°	22	778	1278
	10	22.5	18.1		49°	03	691	1191
	11	21.4	17.0		45°	16	606	1106
	12	20.5	16.1		40°	37	515	1015
	13	18.9	14.5		36°	34	445	945
	14	17.4	13.0		31°	47	372	872
	15	15.8	11.4		28°	25	325	825
	16	13.5	9.1	8:37	25°	33	287	787

Zero Adj. -0.8
Boat Adj. +1.0
Tide -4.6
-4.4

-4.8



166+00

N-8

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 71
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 72 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 Date No.

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

Indexed Date Date Date No.

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.

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

76L298 S & E #307 9-54

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

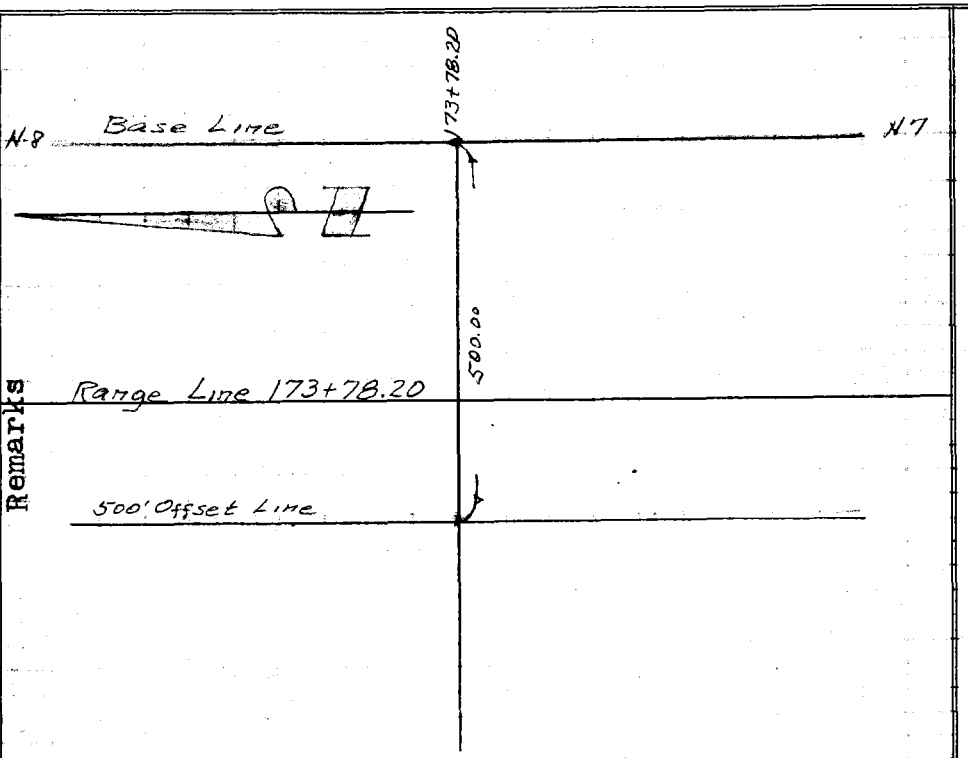
STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 171+00	Sight on 173+78.20
171+00	3 53			14 40		
T.P. (LINE 2)	~~4 65~~	~~17 93~~		~~12 97~~		
T.P.	3 92	18 09	3 76	~~14 17~~	T.P. 1x2 172+00	500 FT. LEFT
173+78.2			6 0	~~12 1~~		
100			4 8	~~13 3~~		
200			4 6	~~13 5~~		
300			5 2	~~12 9~~		
400			5 5	~~12 6~~		
500			4 2	~~13 9~~		
518			5 4	~~12 7~~	BRK	
560			8 8	~~9 3~~	NEAR WATER	
T.P.	[illegible]	[illegible]	10 63	~~7 46~~		
			[illegible]	~~5 7~~	20° 42' 105 + 500	605
			[illegible]	~~1 4~~	30 02 161	661
			13 6	~~3 6~~	39 01 225	725
			[illegible]	~~7 6~~	44 55 277	777
			[illegible]	~~11 0~~	48 19 312	812

INSHORE
N. 173+78.20

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 73
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.P. LEE Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile No. | Notes Red. | Plotted | Job No. 8300.02 Division No. 10 | F.B. 2303 Pg. 75

X-Sec. No. | Notes Chkd. Date | Checked Date | Survey of Beach Erosion | Survey by Van Deren Notes J.V.E Date 8-18-53 | Map No. Indexed A.C. Johnson Date



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Ahead	#	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		8-47	90° 00'	
Inst. Sign on					N. 8
					173+78.20-N
					on 500' Offset Line

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

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

Do not extend notes this side of this line.

761.298 307 8-53

F. B. 2303 PG. 76

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 ~~C. Johnson~~ Date Date Date No.

173+78.20-N

N. 8

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

Range Line 173+78.20-N

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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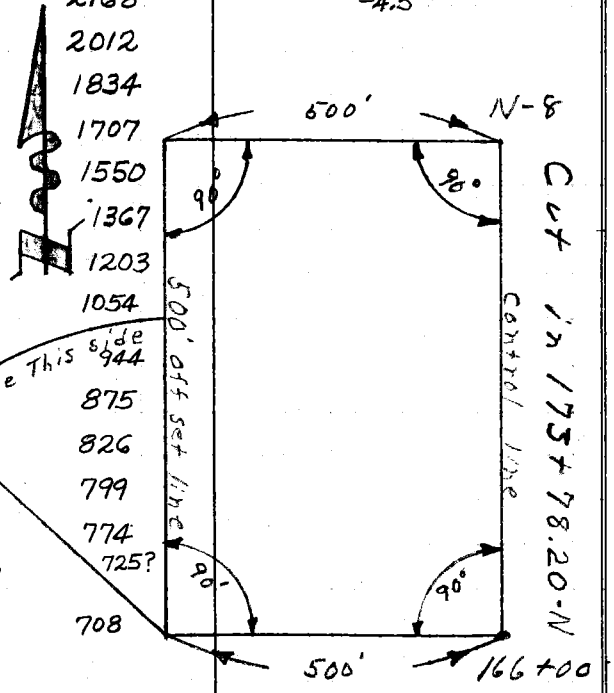
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At Ch	#	Color		Time	Hor. Ang.			Remarks
	1	30.2	25.7	8:43	65° 00	1668	2168	
	2	29.2	24.7		62° 46	1512	2012	
	3	27.5	23.0		59° 45	1334	1834	
	4	26.7	22.2		57° 12'	1207	1707	
	5	25.7	21.2		53° 27'	1050	1550	
	6	24.0	19.5		48° 06	867	1367	
	7	22.5	18.0		42° 06	703	1203	
	8	20.9	16.4		35° 28	554	1054	
	9	18.7	14.2		29° 43	444	944	
	10	16.8	12.3		25° 44	375	875	
	11	15.4	10.9		22° 45	326	826	
	12	13.1	8.6		21° 03	299	799	
	13	11.8	7.3		19° 25'	274	774	
	14	void			16 06	225?	725?	
	15	void		8:47	15° 00	208	708	

Zero Adj. -0.8
Boat Adj. +1.0
Tide -4.7
-4.5

4.9



166+00

N-8

Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 10 F.B. 2303 Pg. 77
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-18-65
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 2303 Pg. 78 Job No 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 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.	Remarks
Inst Sight At ON					
# Color					
Time Hor. Ang.					

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L298 307 8-53

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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 S & E #307 9-54

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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.

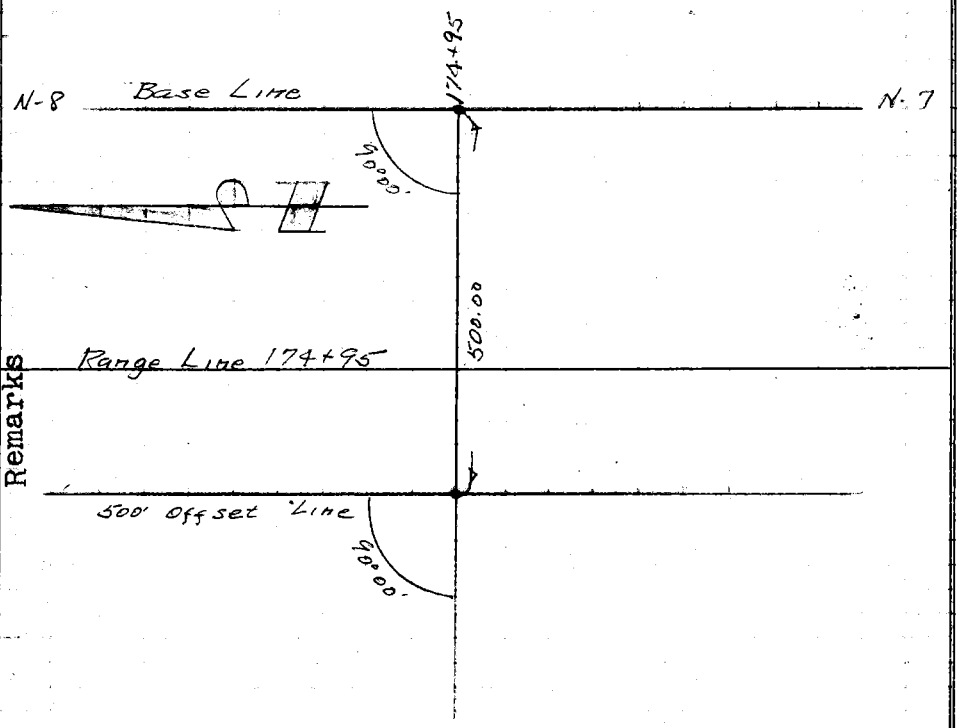
Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Instr. at 171+00		Sight on 174+95 (500' Offset)	
T. P.	3 92	18 09		14 17	1 x 2 172+00, 500 FT LEFT			
T. P.	4 06	17 82	4 33	13 76	1 x 2 174+95 500 FT LEFT			
174+95			2 4	15 4				
100 FT. LEFT			4 8	13 0				
200 " "			5 0	12 8				
300 " "			5 3	12 5				
400 " "			5 5	12 3				
502 " "			4 2	13 6				
506 " "			4 3	13 5		BRK		
555 " "			6 1	11 7				
T.P. 575 " "	0 6	19 0	8 4 0	9 4 2				
					° ′			
			7 5	11 5	16 20	116′ +	500	616
			7 0	11 0	20 47	150′		650
			6 4	11 4	26 41	199′		699
			15 0	11 0	32 41	253′		753
			19 0	11 0	37 99	307′		807

INSHORE
N. 174+95

Profile Notes Red. Plotted. Job No. 8300.02 Division No. 10 F. B. 2302 Pg. 79
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by ENGLISH Noted ENGLISH Date 8-18-55
No. Date Date Map No. Inspected Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 81
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-18-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		8-59	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'	

N-8

174+95-N

On 500' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2303 PG. 82

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 [illegible] Johnson Date Date Date No.

174+95=N

N-8

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
					Range Line	174+95=N

76L298 307 8-53

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.

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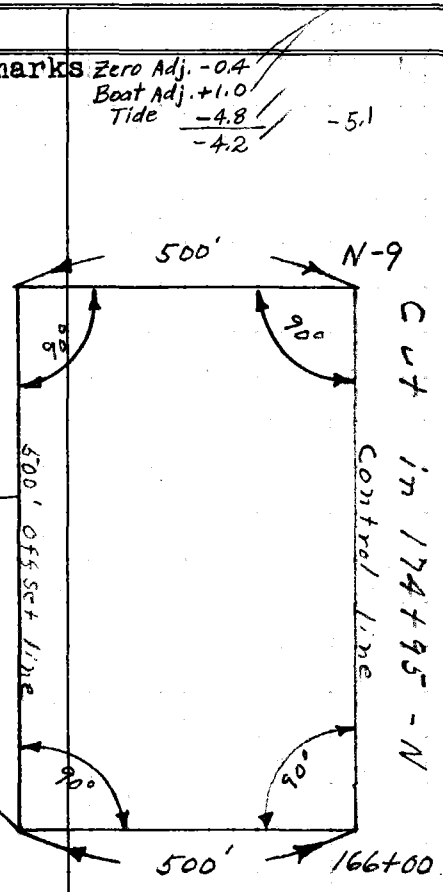
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 3300.02 Division No. 10 F.B. 2303 Pg. 83
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by VanDeren Notes R.T. Date 8-18-55
No. ____ Date ____ Map No. ____ Checked Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.			Zero Adj. -0.4 Boat Adj. +1.0 Tide -4.8 / -4.2 / -5.1
166+00	1	30.0 ✓ 25.8	8:59	61° 10'	1626 ✓	2126	
	2	29.3 ✓ 25.1		59° 19'	1508 ✓	2008	
	3	28.2 ✓ 24.0		59° 05'	1383 ✓	1883	
	4	26.9 ✓ 22.7		54° 09'	1235	1735	
	5	25.9 ✓ 21.7		51° 31'	1126 ✓	1626	
	6	25.0 ✓ 20.8		48° 34'	1014 ✓	1514	
	7	24.0 ✓ 19.8		45° 13'	902 ✓	1402	
	8	23.0 ✓ 18.8		41° 40'	796 ✓	1296	
	9	21.9 ✓ 17.7		39° 34'	688 ✓	1188	
	10	20.8 ✓ 16.6		33° 08'	584 ✓	1084	
	11	19.3 ✓ 15.1		28° 50'	493 ✓	993	
	12	18.0 ✓ 13.8		25° 35'	428 ✓	928	
	13	15.8 ✓ 11.6		22° 08'	364 ✓	864	
	14	13.5 ✓ 9.3		19° 12'	312 ✓	812	
	15	11.7 7.5		17° 01'	274 ✓	774	
	16	VOID ✓	9:03	14° 46'	236 ✓	736	



C & I in 174+95 - N

F. B. 2303 PG. 89 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 Date No.

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

Indexed 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.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks

76L298 S & E #307 9-54

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 ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Last at 172+00	Sight on 176+00
T. P.	3 92	18 09		14 17	1x2 172+00 (500' 0-7 set) 500 FT LEFT	
T. P.	4 06	17 82	4 33	13 76	1x2 174+95 "	"
176+00			27	15 1		
100 FT. LEFT.			53	12 5		
200 " "			52	12 6		
300 " "			50	12 8		
400 " "			60	11 8		
500 " "			45	~~14 3~~ 13 3 ✓	BRK	
550 " "			78	10 0		
575			97	8 1	NEAR	WATER
T. P.	-0 9	8 5	8 40	9 42		
			3 9	4 6	17° 39' 127 ✓ +	500 627
			9 9	-1 4	27 42 210 ✓	710
			15 4	-6 9	35 11 282 ✓	782
			19 5	-11 0	41 36 355 ✓	855

INSHORE
N. 176+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 85
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIFK ENGLISH Notes G.O. & E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

Profile No. ____ X-Sec. No. ____

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

Plotted ____ Date ____ Checked ____ Date ____

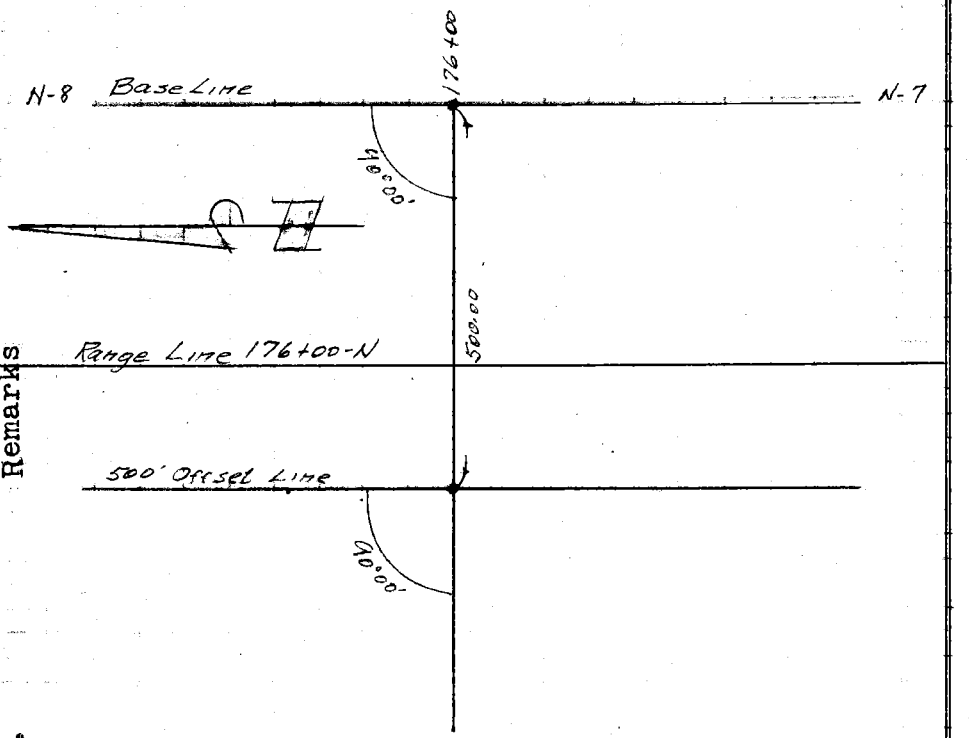
Job No. 8300.02 Division No. 10

Survey of Beach Erosion

Survey by Van Deren Notes J.N.E Date 8-18-53

Map No. ____ Indexed C. Johnson Date ____

F. B. 2303 Pg. 87



STATION	B. S.	H. I.	F. S.	ELEV.
	#	Color	Time	Hor. Ang.
	1		9-10	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		9-11	90°00'
	13			

Remarks

Inst. Sta. on N-8

176+00-N

on 500' Offset Line

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 88 | Job No. 9301.02 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 [redacted] Date Date Date No.

176+00-N

N-8

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.		
					Range Line	176+00-N

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726 Los Angeles County Engineering Bldg.

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76L298 307 8-53

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.

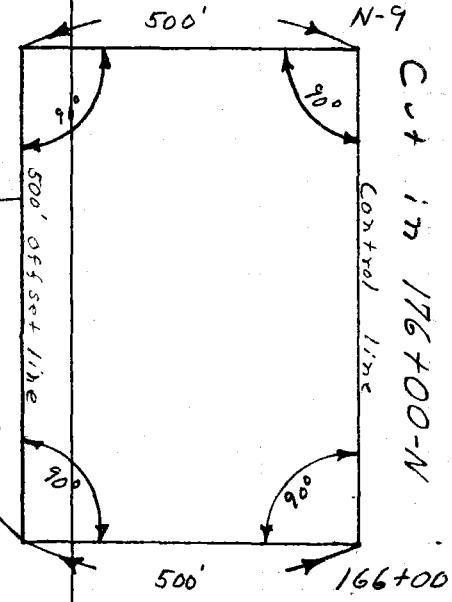
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At Ch	#	Color	Time	Hor. Ang.		
	1	29.1 24.7	9:10	57° 00'	1540	2040
	2	28.7 24.3		54° 28'	1400	1900
	3	27.3 22.9		51° 16'	1247	1747
	4	25.4 21.0		48° 18'	1122	1622
	5	24.7 20.3		45° 15'	1009	1509
	6	23.7 19.3		41° 08'	873	1373
	7	23.3 18.9		38° 32'	796	1296
	8	22.4 18.0		34° 26'	686	1186
	9	20.7 16.3		30° 13'	582	1082
	10	19.2 14.8		26° 09'	491	991
	11	17.5 13.1		22° 13'	408	908
	12	16.8 12.4		19° 38'	357	857
	13	VOID	9:14	15° 30'	277	777

Zero Adj. -0.5
Boat Adj. +1.0
Tide -4.9
-4.4

-5.2

Angle This side



Cut in 176+00-N

166+00

N-9

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 89
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 98 Job No. 300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 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
Apt. Sight On	#	Color	Time	Hor. Ang.	

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76L298 S & E #307 9-54

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.

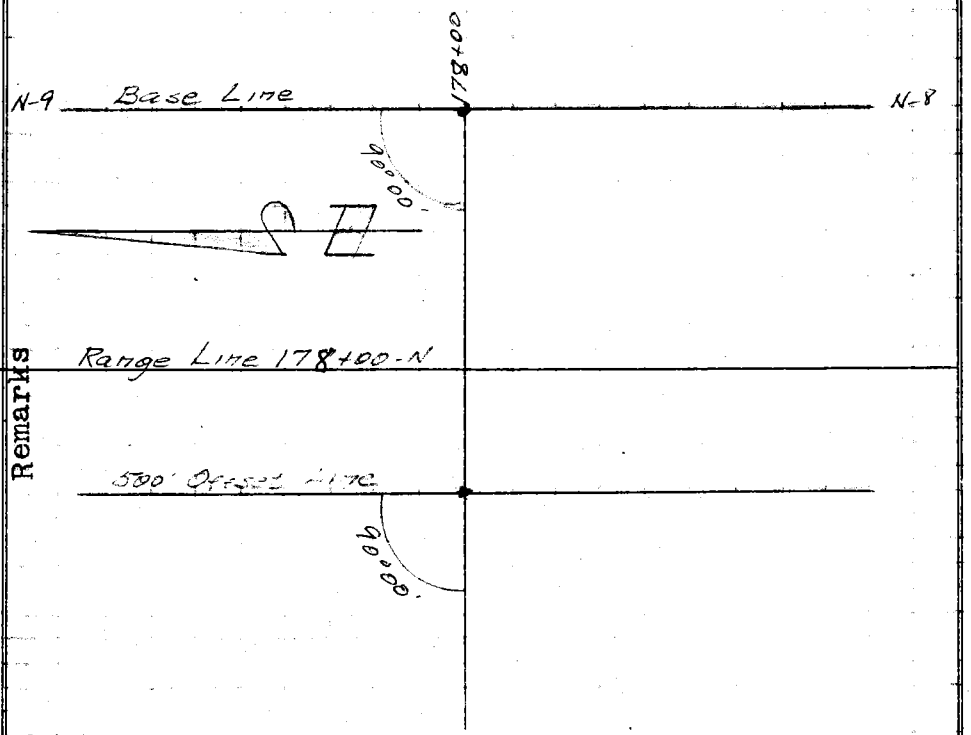
Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 180+00		Sight on 178+00 (500' offset)	
T.P.	4 06	17 82		13 76	1x2	174+95, 500 FT. LEFT		
T.P.	5 40	18 19	5 03	12 79	1x2	178+00	" " "	
178+00			3 2	15 0				
100 FT. L.			5 8	12 4				
200 " "			6 4	11 8				
300 " "			5 8	12 4				
400 " "			6 2	12 0				
486 " "			5 0	13 2		BRK		
500 " "			5 5	12 7				
534 " "			6 5	11 7				
555 " "			6 2	12 0				
T.P. 590 " "	-0 9	8 5	8 80	9 39				
					° ′			
			4 3	4 1	37 06	151 +	500	651
			7 9	0 6	42 26	183		683
			11 3	-2 8	50 31	243		743
			15 8	-7 3	55 07	287		787
			19 0	-10 5	60 27	353		853

INSHORE
N. 178+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 91
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D.&E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 93
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes JWE	Date 8-18-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At CH	#	Color	Time	Hor. Ang.	
	1		9-21	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		9-24	90°00'	

N-9

178+00-N

On 500' Offset 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.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 94 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 R. C. Johnson Date Date Date No.

178+00-N

N-9

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
					Range Line	178+00-N

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.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

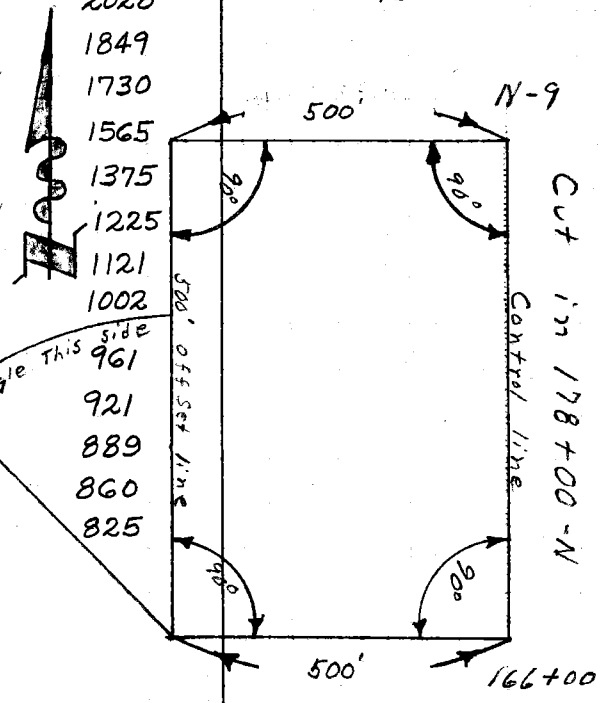
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.		
	1	29.2 24.7	9:21	51° 51'	1528	2028
	2	28.0 23.5		48° 21'	1349	1849
	3	27.1 22.6		45° 43'	1230	1730
	4	25.4 20.9		41° 35'	1065	1565
	5	23.6 19.1		36° 05'	875	1375
	6	22.0 17.5		31° 08'	725	1225
	7	20.9 16.4		27° 21'	621	1121
	8	18.8 14.3		22° 41'	502	1002
	9	17.7 13.2		21° 00'	461	961
	10	16.5 12.0		19° 19'	421	921
	11	15.3 10.8		17° 57'	389	889
	12	14.5 10.0		16° 43'	360	860
	13	13.1 8.6	9:24	15° 10'	325	825

Zero Adj. -0.5
Boat Adj. +1.0
Tide -5.0
-4.5

-5.2



166+00

N-9

Profile
No. Notes Red. Plotted Job No. 030002 Division No. 10 F. B. 2303 Pg. 95
X-Sec. Date Date Survey of Beach Erosion Study
No. Notes Chkd. Checked Survey by Van Doren Notes R.T. Date 8-18-55
Date Date Map No. Index Date

F. B. 2303 PG. 96 Job No. 2300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-18-55 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

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. Sight At On	#	Color	Time	Hor. Ang.		Remarks

76L298 S & E #307 9-54

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.

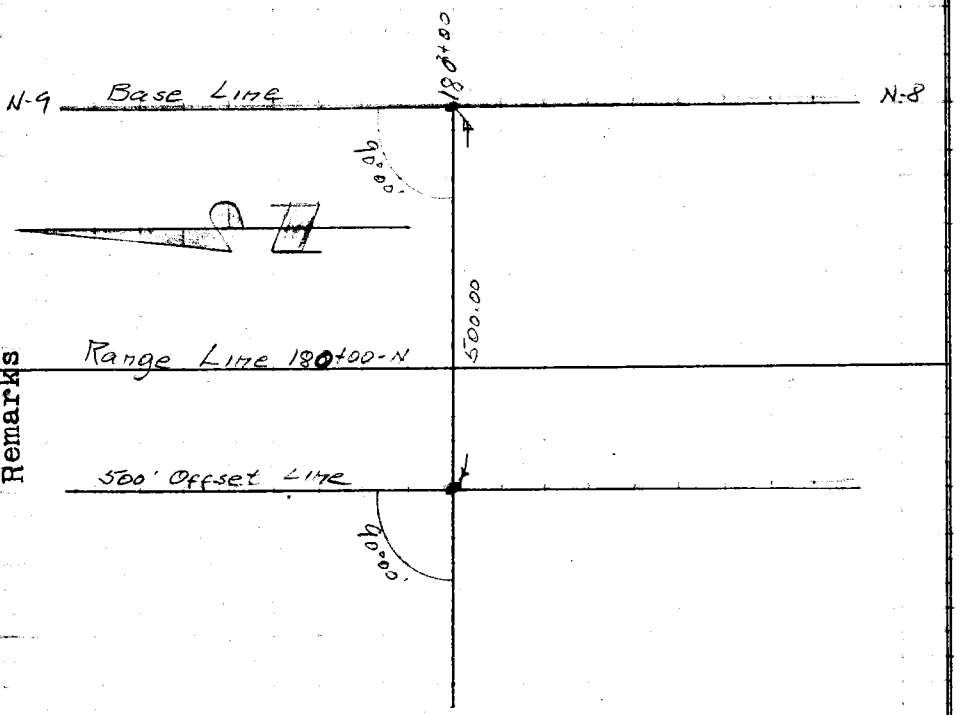
Do not extend notes this side of this line. Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 178+00	Sight on 180+00 (500' Offset)
T.P.	4 06	17 82		13 76	1x2 174+95 500 FT LEFT	
T.P.	5 40	18 19	5 03	12 79	1x2 178+00 "	" "
180+00			4 4	13 8		
100 FT. L.			6 0	12 2		
200 " "			6 8	11 4		
300 " "			6 7	11 5		
400 " "			6 5	11 7		
480 " "			4 9	13 3	BRK	
500 " "			5 7	12 5		
5.22 " "			7 0	11 2	BRK	
583 " "			6 0	12 2	BRK	
600 " "			8 0	10 2		
T.P.	[illegible]	[illegible]	8 80	9 39		
			4 8	4 6	39° 19' 164 + 500	664
			8 6	[illegible] 8	48 23 225	725
			13 2	-3 8	53 36 271	771
			[illegible]	-6 7	57 38 316	816
			18 4	-9 0	59 59 346	846

INSHORE
N. 180+00

Profile Notes Red. ____ Plotted ____ Job No. 8300.02 Division No. 10 F. B. 2303 Pg. 97
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D.&E.E. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Lt. Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 99
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes JWE	Date 8-18-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight	#	Color	Time	Hor. Ang.	
A CH	1		9:35	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'	

N-9
180+00-N
On 500' Offset 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.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F.B. 2303 Pg. 100 | Job No. 9300-01 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. Sight At OR	#	Color	Time			
180+00-N						
N-9						
						Range Line
						180+00

PLEASE RETURN TO
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726 Los Angeles County Engineering Bldg.

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76L298 307 8-53

76L298 307 8-53

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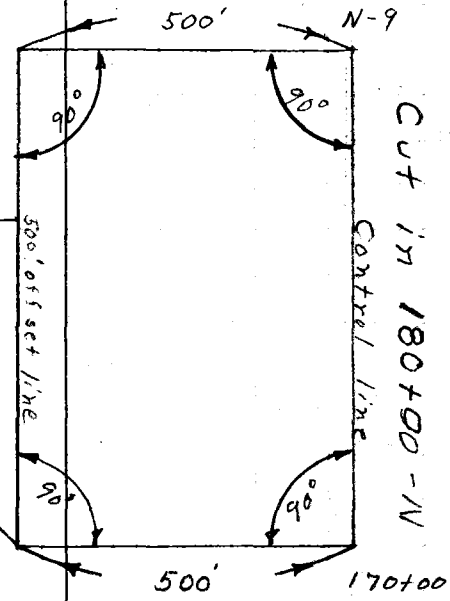
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.			Zero Adj. -0.5 / Boat Adj. +1.0 / Tide -5.0 / -4.5
	1	27.9 ✓ 23.4	9:35	53° 18'	1342 ✓	1842	
	2	26.9 ✓ 22.4		51° 05'	1239 ✓	1739	
	3	26.3 ✓ 21.8		48° 07'	1115 ✓	1615	
	4	25.2 ✓ 20.7		46° 01'	1036 ✓	1536	
	5	24.3 ✓ 19.8		43° 07'	936 ✓	1436	
	6	23.6 ✓ 19.1		40° 25'	852 ✓	1352	
	7	22.9 ✓ 18.4		38° 18'	790 ✓	1290	
	8	22.1 ✓ Edge of Jetty 17.6		34° 50'	696 ✓	1196	
	9	20.9 ✓ 16.4		31° 53'	622 ✓	1122	
	10	20.1 ✓ 15.6		28° 54'	552 ✓	1052	
	11	19.2 ✓ 14.7		26° 13'	492 ✓	992	
	12	VOID ✓		23° 02'	425 ✓	925	
	13	13.6 ✓ 9.1		19° 26'	353 ✓	853	
	14	11.4 ✓ 6.9		17° 42'	319 ✓	819	
	15	9.9 ✓ 5.4		16° 22'	294 ✓	794	
	16	8.6 ✓ 4.1	9:38	15° 02'	269 ✓	769	

170+00

N-9

Angle This side



Cut in 180+00 -N

-5.2

Profile Notes Red. ____ Plotted ____ Job No. R3000 Division No. 10 F. B. 2303 Pg. 101
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-18-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 Pg. 102 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 Date No.

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

Indexed Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

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.

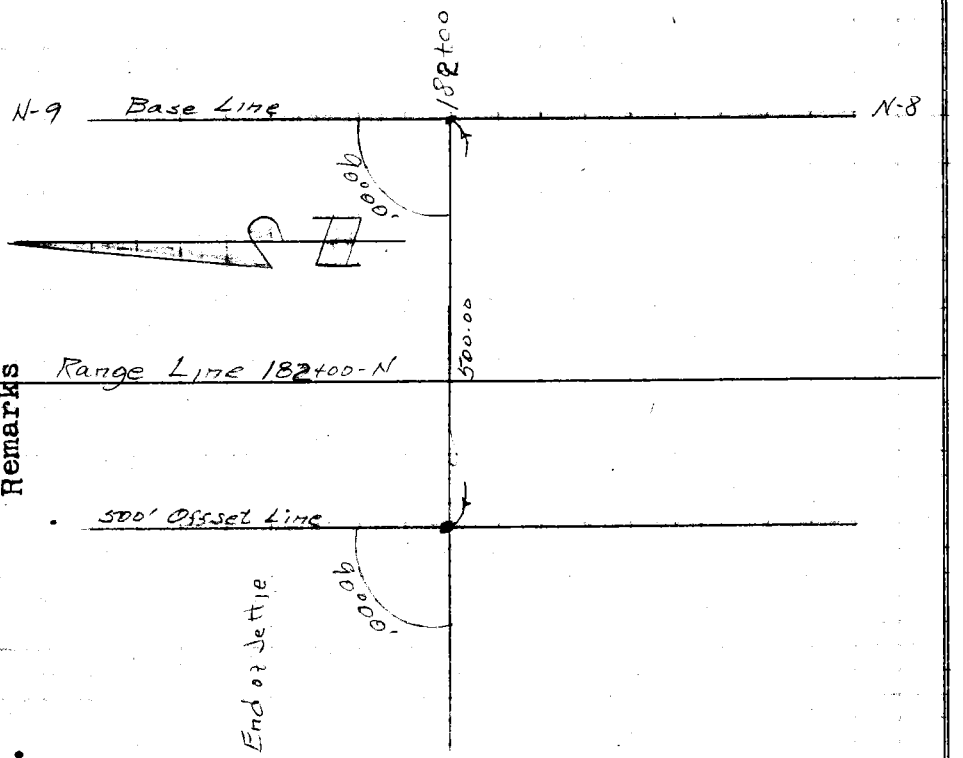
Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 178+00	Sight on 182+00 (500' Offset)
T. P.	5 40	1819		1279	1x2 178+00	
T. P.	5 76	181.5	5 80	1239	1x2 180+00	
182+00			2 2	15 9		
100 FT LEFT			5 5	12 6		
182 " "			8 4	9 7		
200 " "			8 1	10 0		
250 " "			5 0	13 1		
300 " "			4 2	13 9		
400 " "			5 8	12 3		
480 " "			4 9	13 2	BRK	
500 " "			5 4	12 7		
530 " "			6 8	11 3		
600 " "			6 5	11 6		
615 " "			7 0	11 1		
T. P. 637 " "	0 0	9 4	8 70	9 [illegible]		
			4 4	5 0	23° 54' 177' + 500 =	677
			8 8	0 6	30 22 234'	734
			12 2	-2 8	34 14 272'	772
			14 8	-5 4	39 03 324'	824
			18 0	-8 6	43 36 381'	881

INSHORE
N 182+00

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 103
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by DREIER ENGLISH Notes G.D.&E.H. Date 8-18-55
No. Date Date Map No. Indexed C. Johnson Date

Profile	Notes Red.	Plotted	Job No. 030002	Division No. 10	F. B. 2303	Pg. 105
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-18-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sign At CH	#	Color	Time	Hor. Ang.	
	1		10:02	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'	
			10:05		

N-9

182+00-N

On 500' Offset Line

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F.B. 2303 PG. 106 Job No. 0300102 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

182+00-N

N-9

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

Range Line 182+00-N

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.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

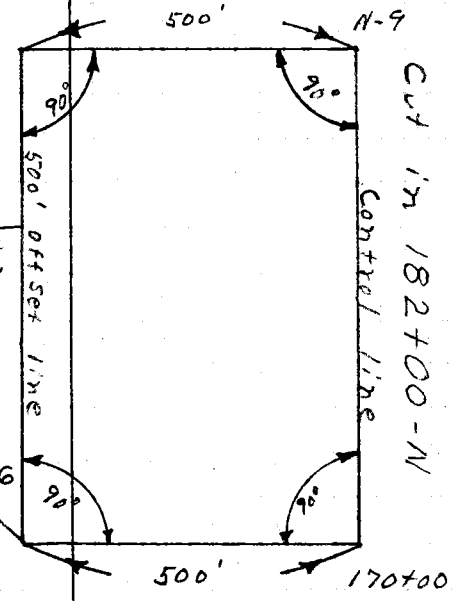
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE, OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		Remarks
	1	27.2	23.1	10:02	44° 55	1197	1697
	2	25.7	21.6		42° 24	1096	1596
	3	24.6	20.5		38° 08	942	1442
	4	23.7	19.6		35° 52'	868	1368
	5	23.1	Edge of Jetty 19.0		33° 38'	795	1295
	6	21.7	17.6		29° 44'	685	1185
	7	20.3	16.2		26° 30'	598	1098
	8	19.3	15.2		24° 14	540	1040
	9	17.7	13.6		22° 18'	492	992
	10	15.9	11.8		20° 15'	443	943
	11	14.7	10.6		18° 41'	406	906
	12	13.0	8.9		17° 32'	379	879
	13	11.7	7.6		15° 48'	340	840
	14	9.5	5.4	10:05	14° 19	306	806

Zero Adj. -0.1
Boat Adj. +1.0
Tide -5.0
-4.1

-5.2



170+00

N-9

Profile Notes Red. Plotted Job No. 0300.07 Division No. 10 F. B. 2303 Pg. 107
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-18-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2303 Pg. 108 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-18-55 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.	Remarks
					Inst. Sight At OH
					# Color
					Time Hor. Ang.

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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

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 8-19-55
Date	Indexed C. Johnson

F. B. 2303 Pg. 108 A

August 19, 1955

Time	Tide	Standard Time
5:00	0.1	
5:30	0.6	
6:00	1.1	
6:30	1.7	
7:00	2.4	
7:30	3.0	
8:00	3.8	
8:30	4.4	
9:00	4.9	
9:30	5.0	
10:00	5.3	

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3098 247 4-53

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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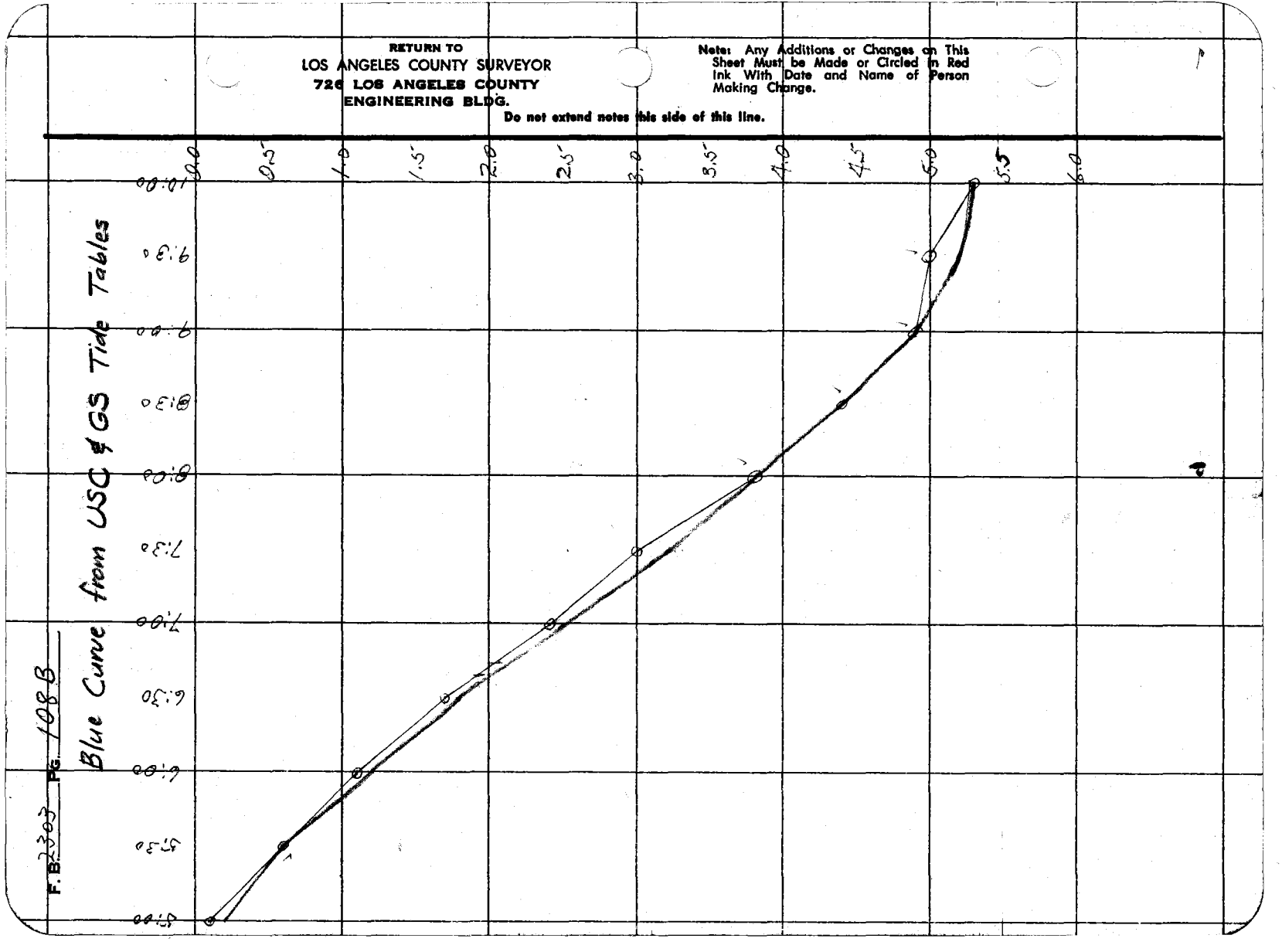
Do not extend notes this side of this line.



Blue Curve from USC & GS Tide Tables

F.B. 2303 PG. 1088

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

F. B. 2303 Pg. 108 C

August 19, 1955

Time	Tide	Standard Time
5:00	0.1	
5:30	0.6	
6:00	1.1	
6:30	1.7	
7:00	2.4	
7:30	3.0	
8:00	3.8	
8:30	4.4	
9:00	4.9	
9:30	5.0	
10:00	5.3	

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

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RETURN TO
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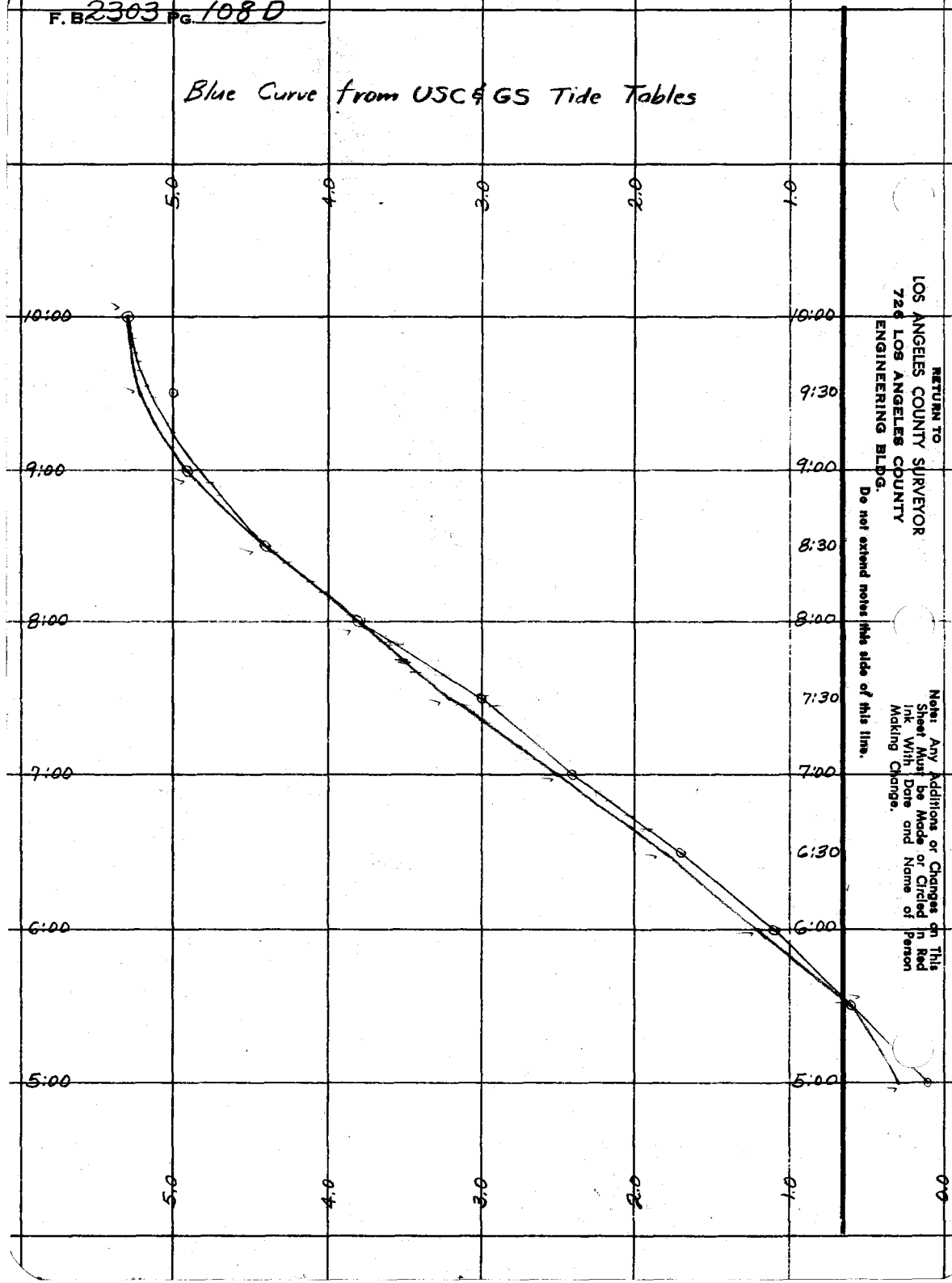
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 SSE #247. 8-54

F. B. 2303 Pg. 108 D

Blue Curve from USC & GS Tide Tables



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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 into this area of this line.

76L298 S & E #307 9-54

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.		
T.P.	5 76	18 15		12 39		
T.P. N-10	4 87	20 73	2 29	15 86		F.B. 1393-18
B.M. 27-15A	4 81	19 94	5 52	15 ~~21~~ 18	B.M. 27-15A F.C. REF. B.M. 115-38	ELEV. 12,381 2,800 15,181
N. 184+00	1 29	17 88	3 40	16 59	1X2	
15' L.			3 6	14 3		
100' "			6 5	11 4		
147' "			7 6	10 3		
200' "			5 7	12 2		
2.63' "			4 [illegible]	13 3		
300 "			4 8	13 1		
3[illegible] "			6 3	11 6		
400 "			6 4	11 5		
4[illegible] "			5 2	12 7		
500 "			5 [illegible]	[illegible]		
5[illegible] "			7 2	10 4		
600 "			7 1	10 [illegible]		
638 "			7 6	10 3		
675 "			[illegible] 4	6 5		

N. 184+00 Inshore

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 109
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by English Notes EE Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 S & E #307 9-54

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 ∡

STATION	B. S.	H. I.	F. S.	ELEV.			
		6 4		6 5			Sight on 184+00
				1 5			
			4 1	-1 8	40 04	164 ✓	+550 OFF 714
			8 2	-5 0	47 58	216 ✓	766
			11 4	-7 7	12 33	274 ✓	824
			14 1	-10 6	[illegible]	325 ✓	875
			17 0	-11 6	62 26	374 ✓	924
			18 2		03 38	393 ✓	943

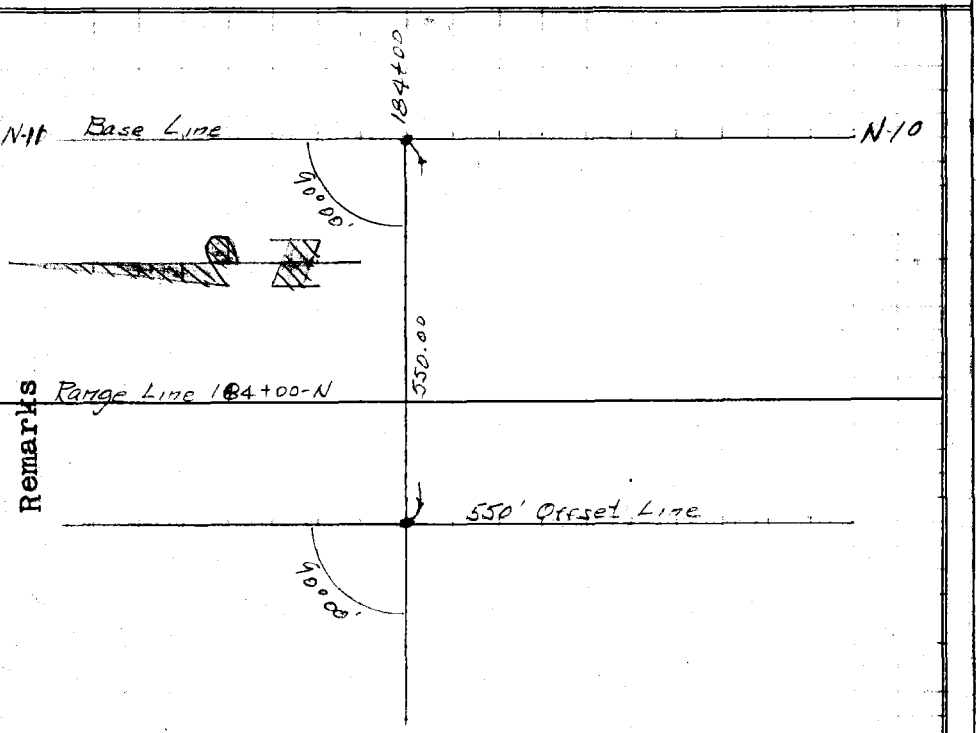
F. B. 2303 Pg. 110 Job No. 0300 Division No. 10 Notes Red Date Plotted Date No. Profile

Survey of Beach Erosion Notes Date Checked Date X-Sec.

Survey by English Notes Chkd. Date No.

Indexed C. Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 111
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.S.E.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



Remarks

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
	1		6:39	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'

N-11

184+00-N

On 550' Offset Line

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 112

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

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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
184+00-N						
N-11						
	11			90°00'		
	22			90°00'		
	23			90°00'		
	24		6:44	90°00'		
					Range Line 184+00-N	

76L298 307 8-53

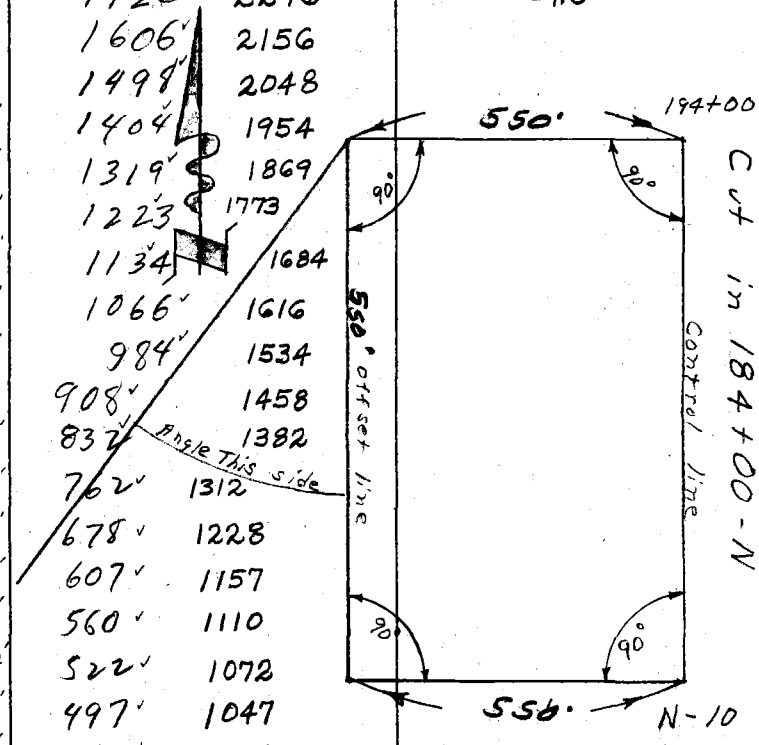
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.			
Inst. Sight At On	#	Color		Time	Hor. Ang.			Remarks
	1	29.2	27.9	6:39	59°	55'	1726	2276
	2	28.0	26.7		58°	05'	1606	2156
	3	27.5	26.2		56°	16'	1498	2048
	4	26.7	25.4		54°	32'	1404	1954
	5	26.0	24.7		52°	50'	1319	1869
	6	25.2	23.9		50°	44'	1223	1773
	7	23.9	22.6		48°	35'	1134	1684
	8	23.5	22.2		46°	49'	1066	1616
	9	22.7	21.4		44°	32'	984	1534
	10	21.8	20.5		42°	15'	908	1458
	11	21.3	20.0		39°	46'	832	1382
	12	20.4	19.1		37°	19'	762	1312
	13	19.4	18.1		34°	09'	678	1228
	14	18.2	16.9		31°	16'	607	1157
	15	17.2	15.9		29°	14'	560	1110
	16	16.8	15.5		27°	34'	522	1072
	17	16.1	14.8		26°	27'	497	1047
	18	15.4	14.1		25°	14'	471	1021
	19	14.5	13.2		24°	03'	446	996
	20	13.6	12.3		22°	46'	420	970

Zero Adj. -0.3
Boat Adj. +1.0
Tide -2.0
-1.3



194+00
N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 113
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed C. Johnson Date

76L298 307 8-53

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

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

Do not extend notes this side of this line.

F. B. 2303 Pg. 114 | Job No 03002 Division No. 10 Notes Red. Plotted
Survey of Beach Erosion Study Date 8-19-53 Date No. Profile
Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.			Remarks	
Inst. At	Sight On	#	Color		Time	Hor. Ang.				
		21	12.7	11.4		21° 36	396 ✓	946	Cut-in	184+00 -N
		22	11.2	9.9		20° 08	367 ✓	917		
		23	10.0	8.7		18° 52	342 ✓	892		
		24	8.4	7.1	6:44	17° 14	310 ✓	860		
194+00	N-10									

76L298 S & E #307 9-54

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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.

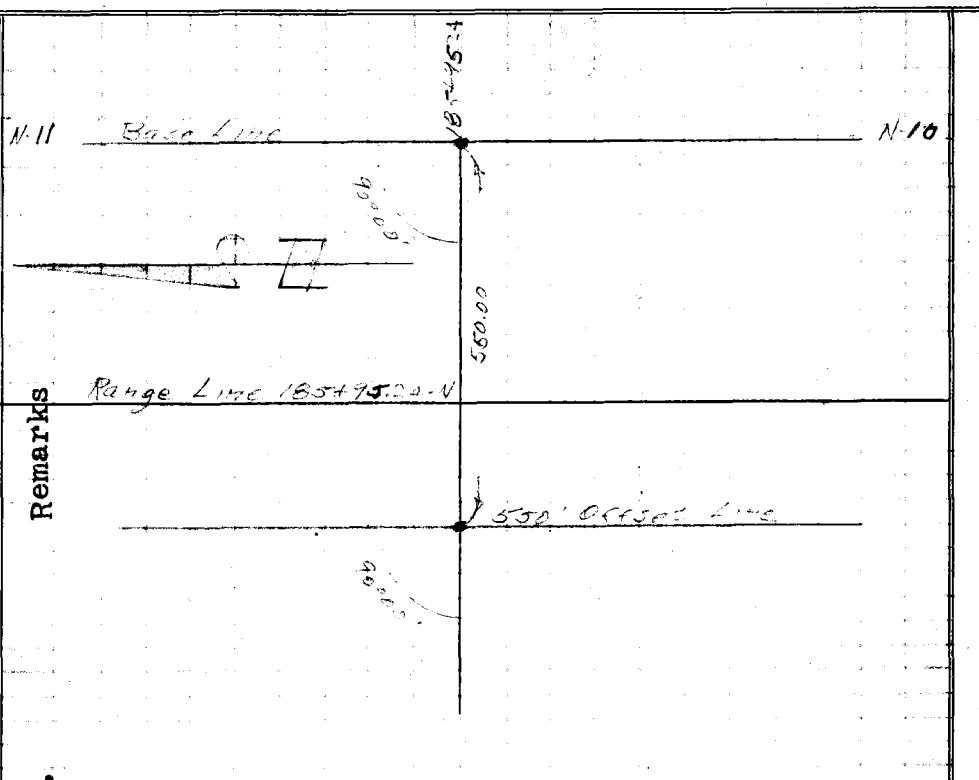
Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 184+00	Sight on 185+95.24 (550' offset)
184+00	1 29	17 88		16 59	1X2	
185+95.24			3 07	14 81	L.&T.	
20' L.			5 6	12 3		
100' "			6 3	11 6		
175' "			7 3	10 6		
250' "			6 5	11 4		
300' "			7 9	10 0		
400' "			7 3	10 6		
480 "			6 3	11 6		
500 "			6 5	11 4		
550 "			6 8	11 1		
600 "			7 8	10 1		
640 "			7 4	10 5		
675 "			10 4	7 5		
T.P.	-0 1	6 4	11 4	6 5		
			3 7	2 7	45° 57' 202 + 550 off	752
			7 6	-1 2	53 25 263	813
			10 0	-3 6	59 55 337	887
			12 7	-6 3	64 15 404	954
			15 1	-8 7	66 59 459	1009
			17 5	-11 1	69 46 529	1079
			18 5	-12 1	72 03 602	1152

Inshore
N. 185+95.24

Profile Notes Red. ____ Plotted ____ Job No. 0300.08 Division No. 10 F. B. 2303 Pg. 115
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0306.02	Division No. 10	F. B. 2303	Pg. 117
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by [illegible]	Notes [illegible]	Date 8-19-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



Remarks

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
	1		6 50	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'

N-11

185+95.24-N

On 550' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 118 Job No. 0300.2 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes N.S.C. Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date Date Date No.

185+95.24-N

N-11

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21		6-54	90° 00'		

Range Line 185+95.24-N

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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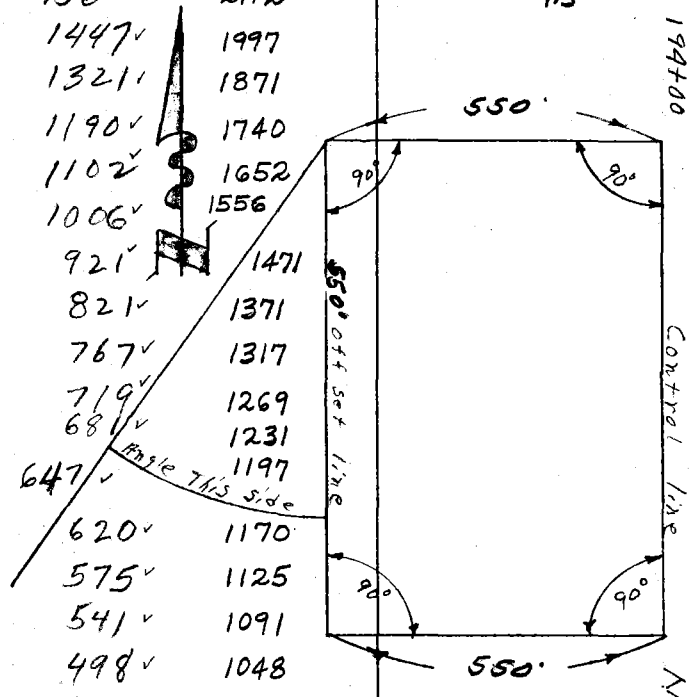
Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		Remarks
	1	28.1	26.6	6:50	62° 44'	1562	2112
	2	27.4	25.9		60° 55'	1447	1997
	3	26.4	24.9		58° 38'	1321	1871
	4	25.0	23.5		55° 55'	1190	1740
	5	23.9	22.4		53° 51	1102	1652
	6	22.8	21.3		51° 20'	1006	1556
	7	21.5	20.0		48° 50'	921	1471
	8	19.5	18.0		45° 33'	821	1371
	9	18.0	16.5		43° 36'	767	1317
	10	17.3	Edge of Jetty 15.8		41° 47'	719	1269
	11	16.2	14.7		40° 13'	681	1231
	12	15.8	14.3		38° 47'	647	1197
	13	15.0	13.5		37° 36'	620	1170
	14	14.2	12.7		35° 33'	575	1125
	15	13.4	11.9		33° 55'	541	1091
	16	12.2	10.7		31° 44'	498	1048
	17	11.2	9.7		29° 42'	459	1009
	18	9.9	8.4		27° 50'	425	975
	19	8.4	6.9		25° 44'	388	938
	20	7.3	5.8		24° 08'	361	911

Zero Adj. -0.3
Boat Adj. +1.0
Tide -2.2
-1.5

-2.3

194+00



Cut in 185+95.24 -N

N-10

194+00

N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 119
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed C. Johnson Date

F. B. 2303 PG. 126 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed X. C. Johnson Date Date Date No.

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sign At On	#	Color	Time	Hor. Ang.	
194+00					
N-10					
	21 5.7	4.2	6:54	22° 28	333 883 Cut in 185+95.24-N

76L295 S & E #307 9-54

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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. 2300.02 Division No. 10 F.B. 2303 Pg. 14
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES Date 8-19-53
X-Sec. Notes Chkd. _____ Checked _____ Survey by [illegible] & C. Notes by [illegible] Date _____
No. _____ Date _____ Map No. _____ Indexed Johnson Date _____

STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. 27-15A	5 59	20 77		15 18	B.M. 27-15A F.C. REF BM. 115-38 ELEV 12.381 2.800 M.L.L.W. 15.181	
186+65			46	1 072		
85 FT LEFT			4 22	1 655	TOP CONC. WALL	
95 " "			7 6	13 2	SAND SEAWARD SIDE WALL	
100 " "			11 5	7 3		
200 " "			11 0	9 8		
300 " "			10 9	9 9		
T.P. 220	5 65	17 56	8 86	11 91		
400 " "			9 2	8 4		
500			7 1	10 5		
600			8 2	9 4		
660			6 7	10 9		
692			7 1	10 5		
700			8 7	8 9		
735			13 3	4 3	NEAR WATER	
T.P.	2 8	8 4	1201	5 59	ON ROCK	
740' L.			4 7	3 7		
800' "			7 9	0 5		
850' "			10 3	-1 9	(Under Water) S. Side of groin	
900' "			11 7	-3 3		
950' "		(over)	13 5	-5 1		

INSHORE
N 186+65
SAND TO S. OF GROIN

F. B. 2303 Pg. 122 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed R. C. Johnson Date Date Date No.

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
1000' L.		8 4	14 4	-6 0
1050' L.			16 0	-7 6
1080' L.			16 7	-8 3

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 123
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by DREIER	Notes G.D.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	

IN SHORE

N 186+80

APPROX. CENTER TOP GROIN

STATION	B. S.	H. I.	F. S.	ELEV.	
B.M 27-15A	5 59	20 77		15 18	B.M. 27-15A F.C. REF B.M. 115-38 ELEV. 12.381 2.800 M.L.W. 9.5'
186+80			56	15 2	
100 FT LT			84	12 4	
200 "			90	11 8	
300 "			89	11 9	
T.P. 50 "	5 65	17 56	886	11 9	
400 "			59	11 7	
500 "			57	11 9	
600 "			58	11 8	
700 "			52	12 4	
800 "			59	11 7	
900 "			57	11 7	
1000 "			52	11 4	
1100 "			58	11 8	
1124 "			5 97	11 59	F.C. B.M. 115-213A
1200			64	11 2	
1256			63	11 3	BRK TO WATER

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 S & E #307 9-54

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 125
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes EE	Date 8-19-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

Inshore
N. 187+15.2
Approx. N. edge of rock groin

STATION	B.S.	H.I.	F.S.	ELEV.	
185+95 24	5.07	9.74		14.81	L.&T.
187+15			14.6	-4.9	
100' L.			12.7	-3.0	
200' "			11.8	-2.1	
300' "			11.5	-1.5	
400' "			9.9	-0.2	
500' "			9.6	0.1	
600' "			9.9	-0.2	
700' "			10.2	-0.5	
800' "			11.3	-1.6	
900' "			12.3	-2.6	
1000' "			12.5	-5.19	T.P.
1100' "			16.9	-5.0	
1200' "			17.4	-5.5	
			23.0	-11.1	

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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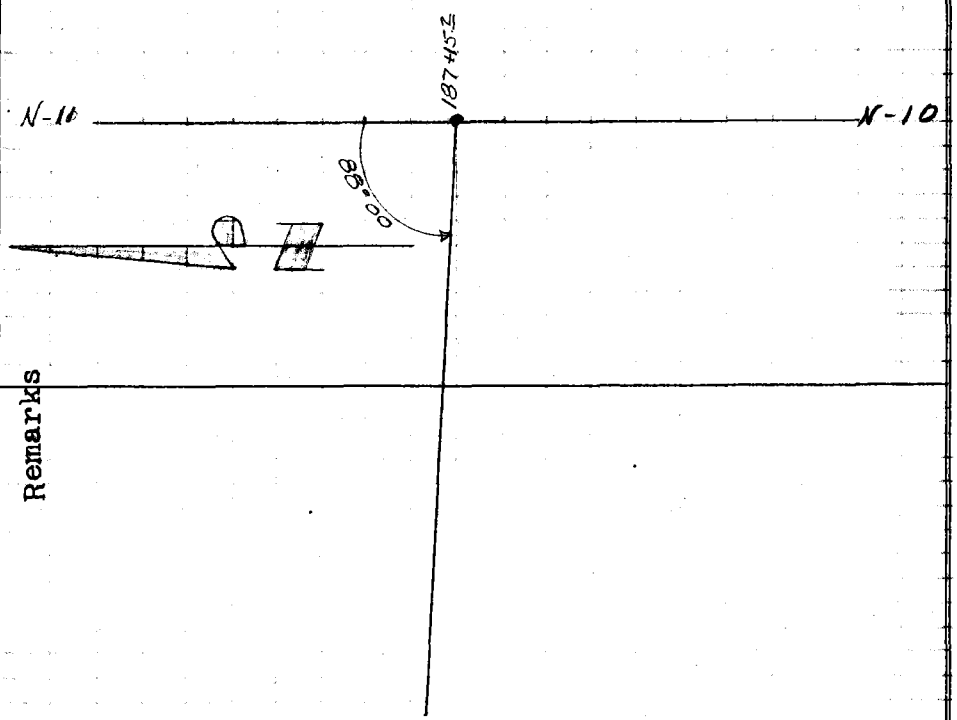
Do not extend notes this side of this line.

76L298 S & E #307 9-54

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 127
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by VanDeren	Notes V.V.E.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:50	88°00'	
	2			88°00'	
	3			88°00'	
	4			88°00'	
	5			88°00'	
	6			88°00'	
	7			88°00'	
	8			88°00'	
	9			88°00'	
	10			88°00'	
	11		End of Jetty	88°00'	
	12			88°00'	
	13			88°00'	
	14			88°00'	
	15			88°00'	
	16			88°00'	
	17			88°00'	
	18			88°00'	
	19			88°00'	
	20			88°00'	
				8:55	

N-11

187+15 Z - N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 Pg. 128 Job No. 0301.02 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. _____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
187+15.2 -N						
N-11						

Inst. Sight At On

Color

Time

Hor. Ang.

Range Line 187+15.2

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.

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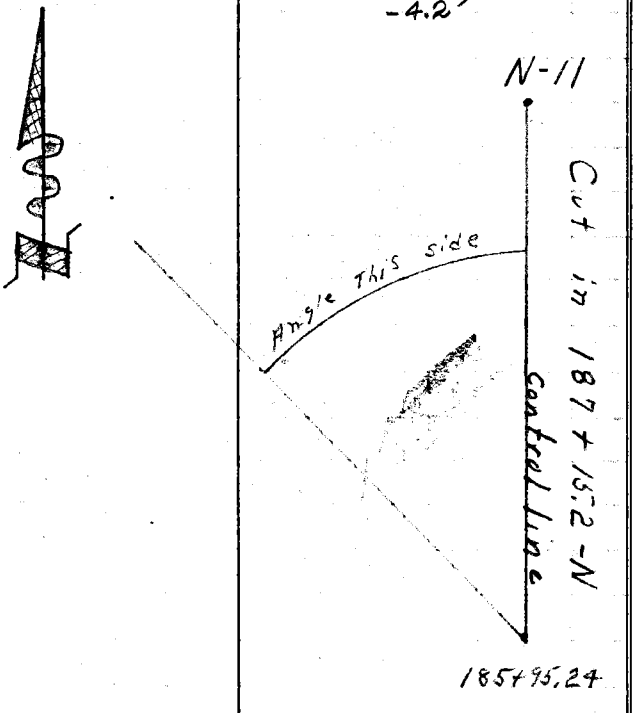
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. 2202.02 Division No. 10 F. B. 2303 Pg. 127
No. Date. Date. Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Lab. Dept. Notes K.T. Date 8-19-55
No. Date. Date. Map No. Traced John Date.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At CR	#	Color	Time	Hor. Ang.		
	1	28.5 24.3	8:50	84° 20'	1850	Zero Adj. -0.5
	2	27.4 23.2		83° 52'	1640	Boat Adj. +1.0
	3	24.6 20.4		83° 38'	1580	Tide -4.7
	4	23.7 19.5		83° 29'	1500	-4.2
	5	22.9 18.7		83° 26'	1475	-4.5
	6	22.2 18.0		83° 18'	1440	
	7	20.8 16.6		83° 08'	1400	
	8	20.2 16.0		83° 04'	1375	
	9	19.5 15.3		82° 57'	1345	
	10	18.4 14.2		82° 31'	1235	
		End 17.3 Jetty 13.1		82° 10'	1165	
	12	void		81° 55'	1115	
	13	void		81° 51'	1100	
	14	void		81° 35'	1055	
	15	void		81° 00'	965	
	16	void		80° 47'	935	
	17	8.7 4.5		79° 08'	760	
	18	7.9 3.7		79° 02'	760	
	19	6.5 2.3		78° 23'	700	
185+95.24 N-11	20	6.0 1.8	8:55	77° 19'	625	



F.B. 2303 Pg. 130

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

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed Date Date Date No.

76L298 307 8-53

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

Do not extend notes this side of this line.

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

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 131
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes G.E.D.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

Inshore
N. 188+00
Approx. Ctr. channel

NOTE TAKEN ON TRUE STAT. 188+00 WHICH IS NEARER TO S. GROIN AT W'LY END

STATION	B. S.	H. I.	F. S.	ELEV.	
185+95 24 T.P.	4.64	19.45		14.81	L.&T.
	1.61	9.74	11.32	8.13	
188+00			151	-5.41	
100' L			131	-3.41	
200 "			120	-2.31	
300 "			110	-1.31	
400 "			100	-0.31	
500 "			101	-0.41	
600'			104	-0.71	
700' "			109	-1.21	
800' "			113	-1.61	
900' "			124	-2.71	
T.P.	6.67	11.86	4.55	5.19	
1000'			151	-3.32	
1100' "			183	-6.41	
1200' "			230	-11.1	
186+80 (NEAR BOT. PAGE)			020	11.66	F.C. B.M. 115-213A

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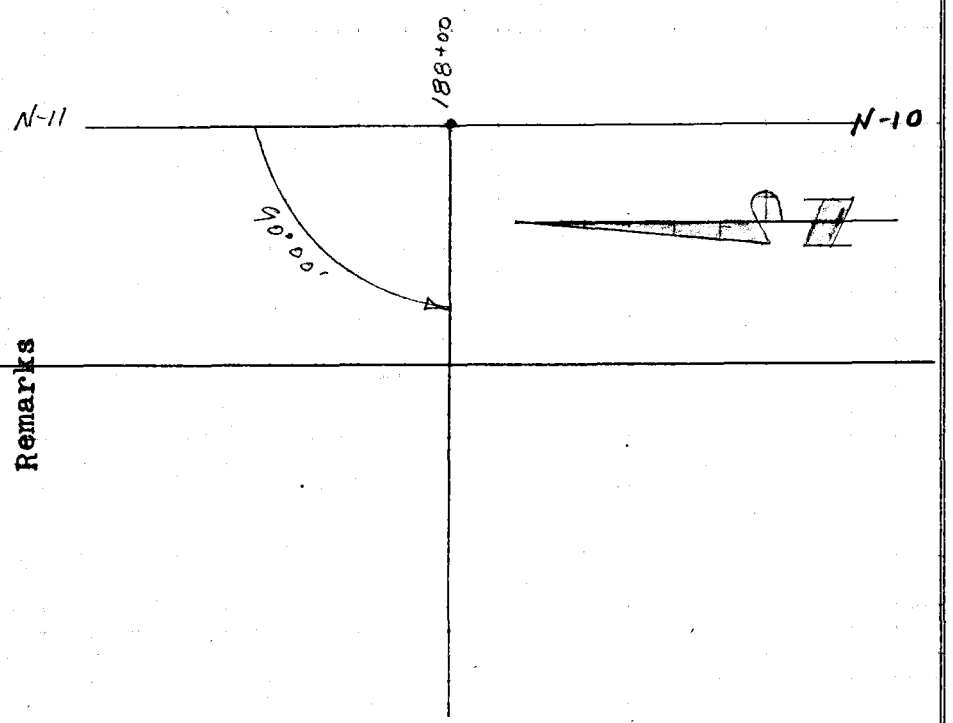
76L298 S & E #307 9-54

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 133
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E	Date 8-19-55	
No.	Date	Date	Map No.	~~Indexed~~ C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9:14	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	End of Jetty	9:17	90°00'	

N-11

188+00-N

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F. B. 2303 PG. 134 Job No. 0300.02 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 K. C. Johnson Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
188+00-N					
N-11					
					Range Line 188+00-N

76L298 307 8-53

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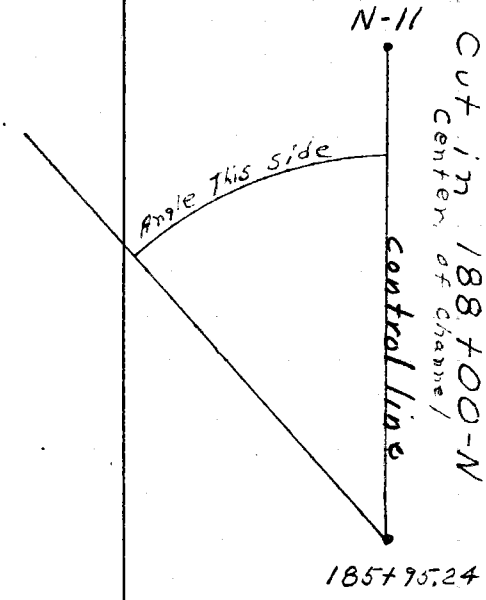
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight	Time	Meas. Depth	Bottom	Hole Ang.	Adj. Depth	Remarks
185+95.24 N-11	1	31.9 27.4	9:14	84° 48'	2253	
	2	31.1 26.6		84° 45'	2231	
	3	29.5 25.0		84° 08'	1995	
	4	28.6 24.1		83° 36'	1828	
	5	27.6 23.1		83° 37'	1785	
	6	26.3 21.8		83° 17'	1741	
	7	25.9 21.4		83° 21'	1758	
	8	25.1 20.6		83° 18'	1745	
	9	24.2 19.7		83° 19'	1749	
	10	23.6 19.1		83° 17'	1741	
	11	22.6 18.1		82° 58'	1662	
	12	21.9 17.4		82° 40'	1593	
	13	21.6 17.1		82° 22'	1530	
	14	20.2 15.7		81° 51'	1431	
	15	19.8 15.3		81° 32'	1377	
	16	19.1 14.6		81° 15'	1332	
	17	void		80° 49'	1268	
	18	End of void Jetty	9:17	80° 45'	1259	
	19	16.2 11.7			center of end of jetty	

Remarks

Zero Adj. -0.5
Boat Adj. +1.0
Tide -5.0
-4.5
-5.1



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 135
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed A. S. Johnson Date ____

F. B. 2303 Pg. 136 | Job No. 0300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion study | Date 8-19-55 | 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			

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726 Los Angeles County Engineering Bldg.

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Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 137
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes EE	Date 8-19-55	
No.	Date	Date	Map No.	Indexed X.C. Johnson	Date	

Inshore
N. ~~189+~~73
Approx. S. edge rock groin
N-190+00

STATION	B.S.	H.I.	F.S.	ELEV.	
185+95 24	-5 07	9 74		14 81	L.&T.
189+73			97	0 0	
100' L			10 3	-0 6	
200' "			10 5	-0 8	
300' "			10 7	-1 0	
400' "			10 9	-1 2	
500' "			11 9	-2 2	
600' "			11 4	-1 7	
700' "			10 8	-1 1	
800' "			10 9	-1 2	
900' "			11 5	-1 8	
1000' "			13 0	-3 3	
1100' "			14 55	-5 12	T.R.
1200' "			18 4	-6 5	
			23 0	-11 1	

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

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726 Los Angeles County Engineering Bldg.

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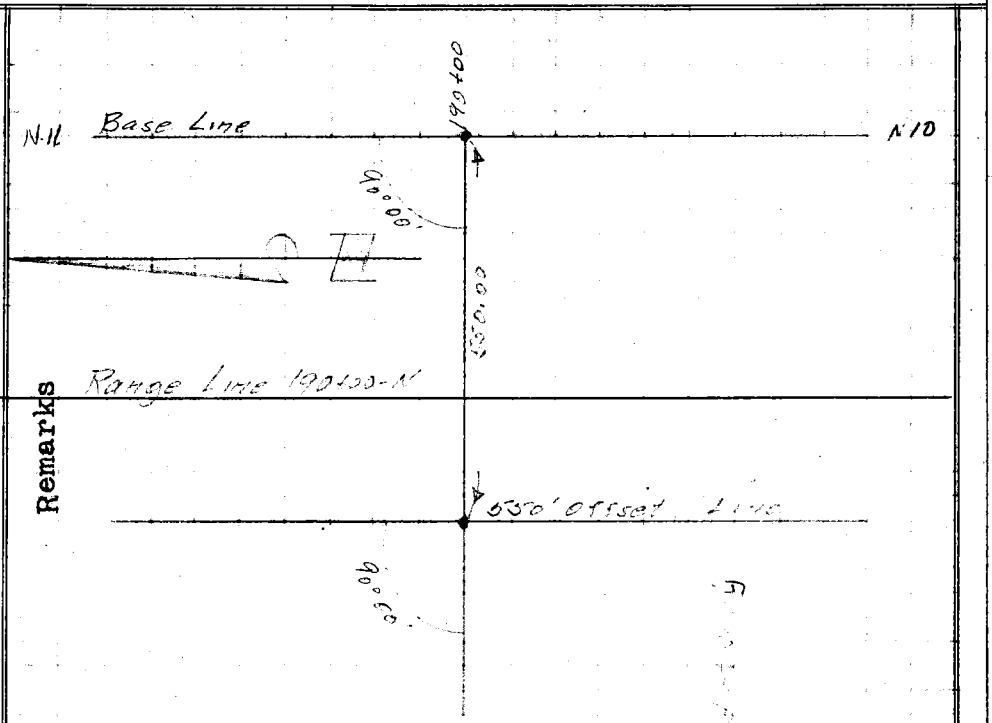
76L298 S & E #307 9-54

Profile No.	Notes Red.	Plotted	Job No. 2300-01	Division No. 10	F. S. 2303	Pg. 139
	Date	Date	Survey of Beach Erosion			
X-Sec. No.	Notes Chkd.	Checked	Survey by Van Dorn	Notes J.J.C.	Date 2-19-53	
	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
	1		7.27	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'	
					End of Survey

N.11

190+00 - N
On 550' Offset 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.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F. B. 2303 PG. 140 Job No. 830002 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

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
190+00-N						
N-11						
					Range Line 190+00-N	

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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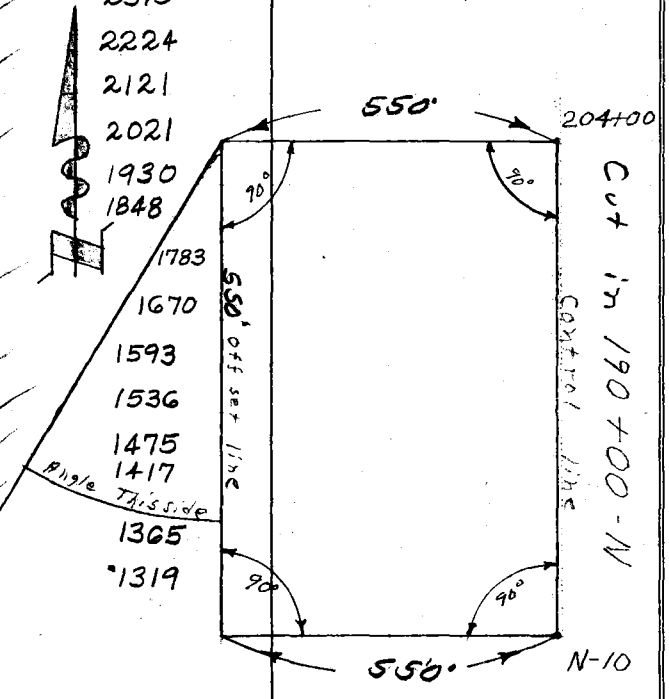
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	28.7 ✓ 26.3	7: 27	51° 35'	1765	2315
	2	27.3 24.9		50° 06'	1674	2224
	3	26.2 ✓ 23.8		48° 18'	1571	2121
	4	25.3 ✓ 22.9		46° 25'	1471	2021
	5	24.4 ✓ 22.0		44° 35'	1380	1930
	6	23.7 ✓ 21.3		42° 50'	1298	1848
	7	23.0 ✓ 20.6		41° 22'	1233	1783
	8	21.5 ✓ 19.1		38° 40'	1120	1670
	9	20.8 ✓ 18.4		36° 41'	1043	1593
	10	20.1 ✓ 17.7		35° 09'	986	1536
	11	19.3 ✓ 16.9		33° 27'	925	1475
	12	19.0 ✓ 16.6		31° 46'	867	1417
	13	17.4 ✓ 15.0		30° 12'	815	1365
	14	Edge of 16.1 jetty ✓ 13.7	7: 30	28° 47'	769	1319

Zero Adj. -0.4
Boat Adj. +1.0
Tide -3.0
-2.4



204+00

N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 141
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Edited Johnson Date

F. B. 2303 Pg. 142 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed 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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

76L298 S & E #307 9-54

593

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.		
B.M. 27-17	1 54	21 27		19 73	B.M. 27-17 U.S. 3784	Q-767 ELEV. 16928 F.B. 1393-19
190+20			[illegible]	14 2		2,800
100 FT LEFT			[illegible]	13 3		19.728
200 " "			91	12 2		
300 " "			99	11 4		
T.P. 300 " "	5 67	17 [illegible]	9 64	11 63	T.P. ON EYE BOLT	
400 " "			[illegible]	12 0		
500 " "			56	11 7		
600 " "			53	12 0		
700 " "			[illegible]	11 8		
800 " "			61	11 2		
900 " "			60	11 3		
T.P. 1000 " "	5 05	16 42	5 93	11 37	BOLT IN PAINTED "X" (3+00)	
1100 " "			51	11 3		
1115 " "			5 32	11 10	A.C. B.M. 115-214A	
1200 " "			53	11 1		
1240 " "			43	12 1	BRK TO WATER	

IN SHORE
N 190+20
APPROX. CENTER ROCK GROIN

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 143
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Freeman Notes Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Edited Johnson Date ____

76L298 S & E #307 9-54

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.		
B.M. 27-17	1 54	21 27		19 73	BM. 27-17 U.S. 3784, 0767 ELEV.	
190 + 30			5 2	16 1		
100 FT LEFT			7 8	13 5		
200 " "			8 0	13 3		
300 " "			9 8	11 5		
T.P. 300 " "	5 67	17 [illegible]	9 64	11 [illegible]	T.P. ON FY	
400 " "			5 7	11 6		
500 " "			5 8	11 5		
600 " "			5 9	11 4		
678 " "			5 2	2 1	BRK	
700 " "			8 3	3 8		
730 " "			12 3	5 3	NEAR WATER	
T.P. 713 " "	2 5	9 3	10 51	6 79		
800' L			9 0	0 3		
850' "			11 7	-2 4	N. Side of Groin	
900' "			15 3	-6 0	(under water)	
950' "			16 5	-7 2		
1000' "			18 0	-8 7		
1050' "			19 0	-9 7		

INSHORE
N 190 + 30
SAND TO N. OF GROIN

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2303 Pg. 145
X-Sec. No. ____ Date ____ Date ____ Survey of Drew Parish Erosion
Notes Chkd. ____ Checked ____ Survey by English Notes EE Date 8-19-55
Date ____ Date ____ Map No. ____ Drafted Johnson Date ____

76L298 S & E #307 9-54

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 194+00	Sight on 192+00
N 190+30 T.P. 713 Ft. L.	10 99	17 78		6 79	(550'	offset)
192+00		17.8	30	14 8	ON WALK	
100 FT LEFT			30	14 8		
200 " "			39	13 9		
300 " "			54	12 4		
365 " "			75	10 3		
400 " "			74	10 4		
500 " "			60	11 8		
550 " "			43	13 5	OFF SET LINE	
600 " "			64	11 4		
656 " "			59	11 9		
T.P. 657 " "	0 2	8 8	9 14	8 64		
			4 2	4 6	40° 00' 168 +550	718
			9 1	-0 3	48 33 226	776
			12 9	-4 1	59 18 278	828
			17 1	-8 3	61 26 367	917
			18 3	-9 5	64 46 424	974

INSHORE
N. 192+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 147
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Dreier English Notes G.S.R. E.E. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed A. C. Johnson Date ____

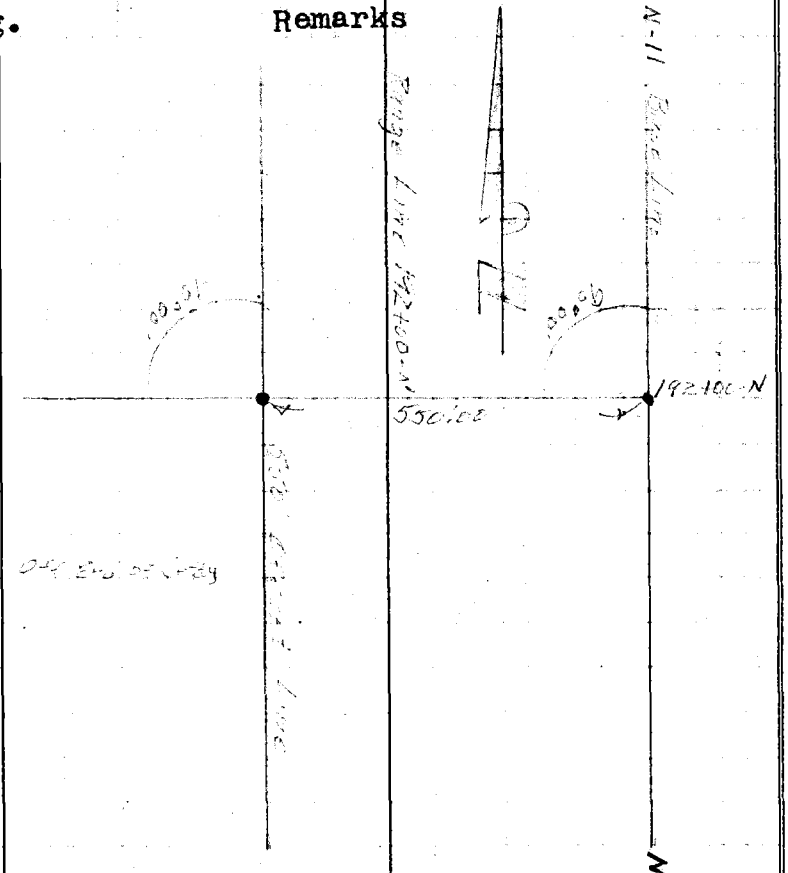
76L298 307 8-53

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		7:40	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'	Off End of Study
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17			90° 00'	
	18			90° 00'	
	19			90° 00'	
	20			90° 00'	



N-11
192+00-N
On 550' Offset Line

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F.B. 2303 Pg. 149
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by Va. Dever Notes J.J.C. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 PG. 150 | 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.C. Notes Chkd. Checked | X-Sec.

Indexed K. 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.	Inst. Sight At OH # Color Time Hor. Ang.	Remarks
					191+00 -N	
					N. 11	
	21		7.19			
						Range line
						192+00-N

76L298 307 8-53

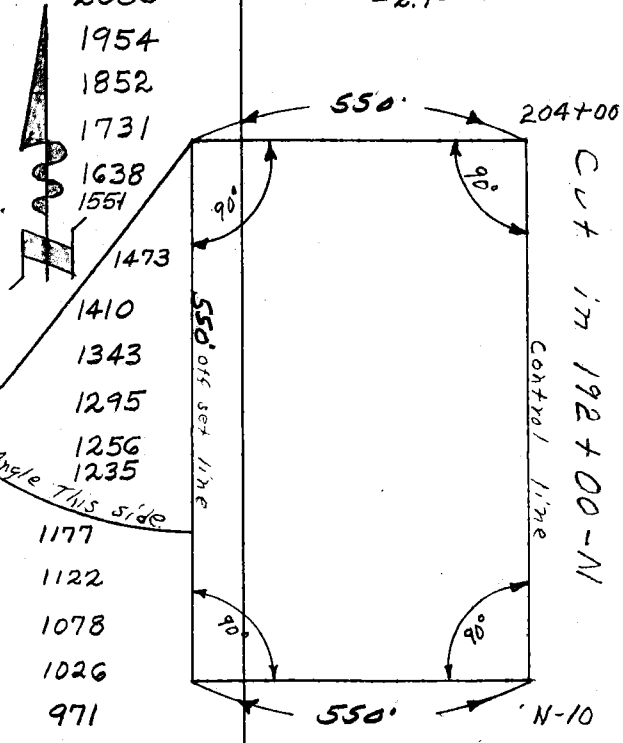
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	27.7 ✓ 25.0	7:40	52° 00'	1536 +	2086
	2	26.5 ✓ 23.8		49° 29'	1404	1954
	3	25.5 ✓ 22.8		47° 20'	1302	1852
	4	24.1 ✓ 21.4		44° 33'	1181	1731
	5	23.2 ✓ 20.5		42° 12'	1088	1638
	6	22.2 ✓ 19.5		39° 50'	1001	1551
	7	21.5 ✓ 18.8		37° 34'	923	1473
	8	21.1 ✓ 18.4		35° 38'	860	1410
	9	20.2 ✓ 17.5		33° 28'	793	1343
	10	19.5 ✓ 16.8		31° 51'	745	1295
	11	18.8 ✓ 16.1		30° 29'	706	1256
	12	✓ Edge of 18.3 Jetty 15.6		29° 43'	685	1235
	13	17.0 ✓ 14.3		27° 35'	627	1177
	14	15.8 ✓ 13.1		25° 28'	572	1122
	15	14.8 ✓ 12.1		23° 45'	528	1078
	16	14.0 ✓ 11.3		21° 38'	476	1026
	17	13.5 ✓ 10.8		19° 20'	421	971
	18	12.4 ✓ 9.7		18° 20'	398	948
	19	11.0 ✓ 8.3		16° 56'	365	915
	20	10.4 7.7		15° 52'	341	891

Zero Adj. -0.4
Boat Adj. +1.0
Tide -3.3
-2.7
-3.4



Cut in 192+00-N

204+00

N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 151
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 152 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed ~~K. G. 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.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
204+00					
N-10					
	21	26 V 6.9	71 41	14 40	314 864 Cut in 192+00 - N

76L298 S & E #307 9-54

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 ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 192+00		Sight on 194+00
N 190+30 T.P. 713 FT. L.	10 99	17 78		6 79		(550' offset)	
194+00		17.8	3 0	14 8			
100 FT LEFT			2 7	15 1			
200 " "			4 2	13 6			
300 " "			5 9	11 9			
350 " "			6 2	11 6			
400 " "			4 9	12 9			
500 " "			4 4	13 4			
550 "			5 1	12 7			
600 " "			4 6	13 2			
656 " "			4 5	13 3		BRK	
680			7 9	9 9		NEAR WATER	
T.P.	0 2	8 8	9 14	8 64			
			5 4	3 4	36° 44'	149	699
			10 6	-1 8	46 37	212	762
			15 0	-6 2	53 45	273	823
			18 3	-9 5	59 53	345	895

INSHORE
N. 194+00

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 153
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by DREIER & NELSH Notes G.D.&E.E. Date 8-19-55
Date ____ Date ____ Map No. ____ Ended Johnson Date ____

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

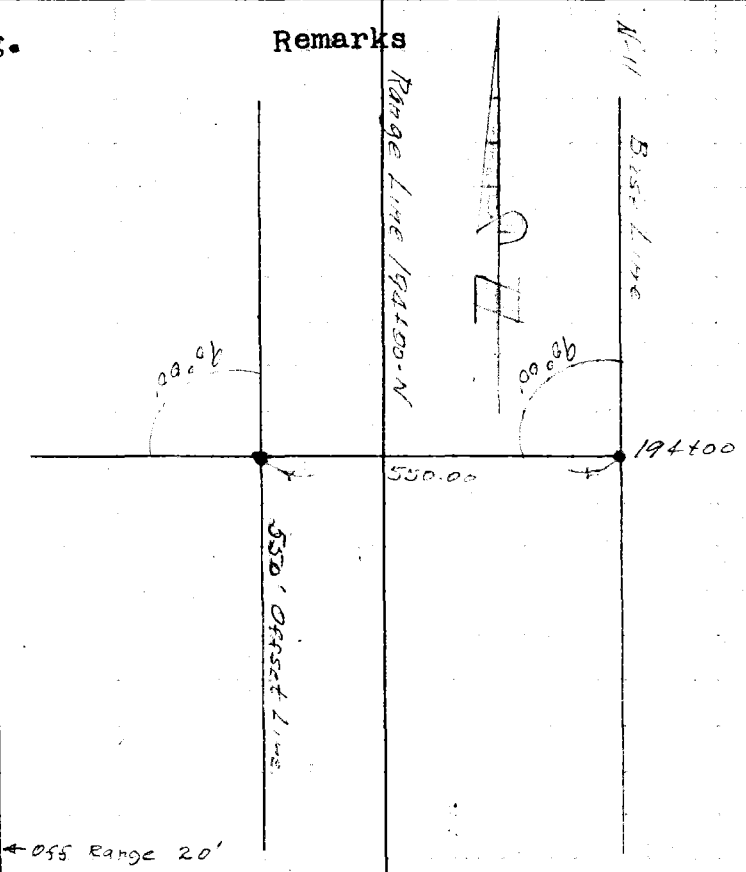
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

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

F. B. Pg.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
							1		7:52	90° 00'	
							2			90° 00'	
							3			90° 00'	
							4			90° 00'	
							5			90° 00'	
							6			90° 00'	
							7			90° 00'	
							8			90° 00'	
							9	End of Jetty		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'	← Offs Range 20'
							19		7:55	90° 00'	



194+00 N
On 550' Offset Line
N-11

F. B. 2303 PG. 156 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 R. 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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

194+00-N

N-11

Range Line 194+00-N

76L298 307 8-53

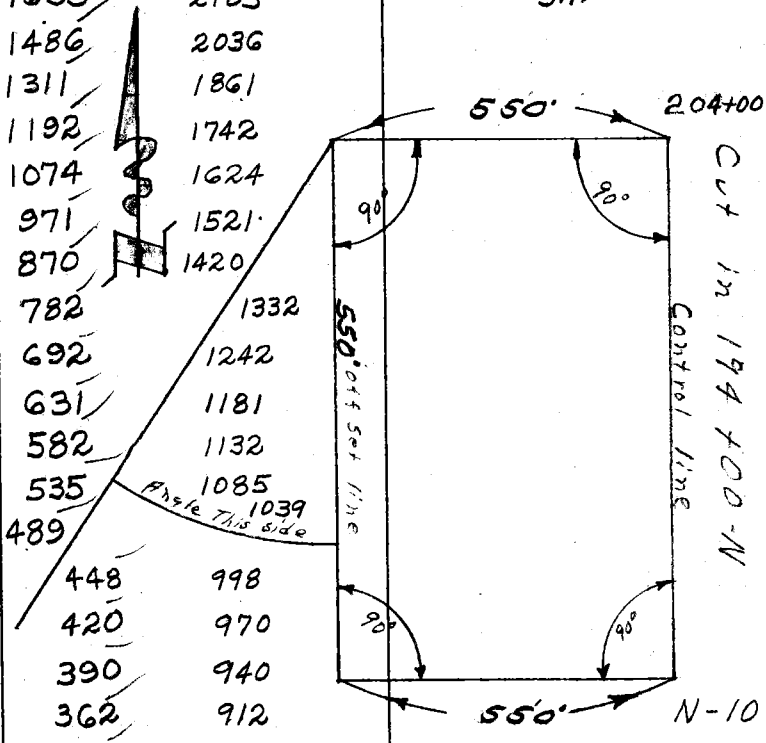
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	29.3 ✓ 26.2	7:52	58° 31'	1633	2183
	2	29.1 ✓ 25.0		56° 03'	1486	2036
	3	26.8 ✓ 23.7		52° 40'	1311	1861
	4	26.0 ✓ 22.9		50° 00'	1192	1742
	5	24.7 21.6		47° 03'	1074	1624
	6	23.7 ✓ 20.6		44° 10'	971	1521
	7	22.9 ✓ 19.8		41° 02'	870	1420
	8	21.9 ✓ 18.8		38° 01'	782	1332
	9	20.4 Edge of Jetty 17.3		34° 40'	692	1242
	10	19.0 15.9		32° 15'	631	1181
	11	18.1 15.0		30° 12'	582	1132
	12	16.3 ✓ 13.2		28° 10'	535	1085
	13	15.5 ✓ 12.4		26° 04'	489	1039
	14	14.8 ✓ 11.7		24° 09'	448	998
	15	14.2 ✓ 11.1		22° 48'	420	970
	16	13.5 ✓ 10.4		21° 18'	390	940
	17	12.9 ✓ 9.8		19° 55'	362	912
	18	12.3 ✓ 9.2		19° 40'	357	907
	19	11.0 ✓ 7.9	7:55	17° 25'	314	864

Zero Adj. -0.5
Boat Adj. +1.0
Tide -3.6
-3.1



204+00

N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 157
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 158 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-19-55 Date _____ No. _____

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

Indexed _____ 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.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks

76L298 S & E #307 9-54

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.

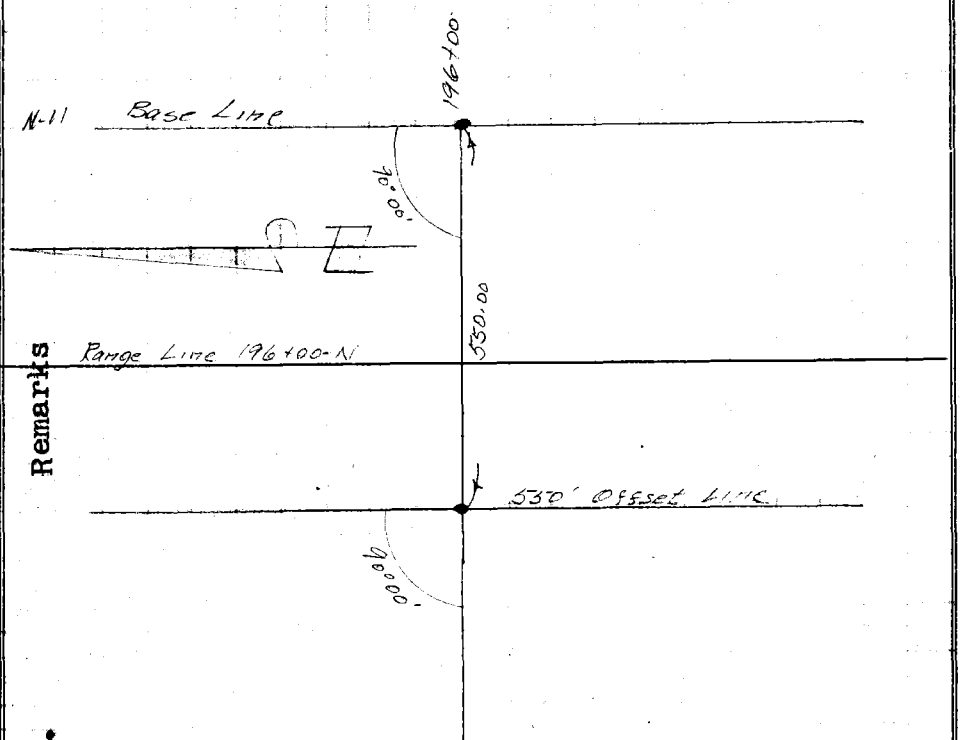
Do not extend notes this side of this line. Cut-in X

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 194+00		Sight on 196+00
190+20						(550'	Offset)
T.P. [illegible]	10 99	17 78		6 79			
T.P.	5 97	19 31	4 44	13 34	1x2 196+00	550	FT. LEFT
196+00			4 5	14 8			
[illegible]			3 8	15 5			
100 " "			4 6	14 7			
200 " "			6 4	12 9			
300 " "			7 4	11 9			
400 " "			5 2	14 1			
500 "			5 0	14 3			
550 " "			6 0	13 3	OFFSET LINE		
600			5 7	13 6			
647	1 0	9 1	11 21	8 10			
			6 8	2 3	35° 16'	141	691
			11 6	-2 5	44 40	199	749
			15 3	-6 2	51 04	247	797
			17 3	-8 2	55 12	288	838
			18 4	-9 3	58 15	323	873

INSHORE
N 196+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 159
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER ENGLISH Notes G.D.&F.E. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 300.00	Division No. 10	F. B. 2 3 03	Pg. 161
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Dorn	Notes J.J.C.	Date 8-19-50	
No.	Date	Date	Map No.	Indexed C. Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:03	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'	

End of Jetty

N-11

196+00-N

On 550' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 162 Job No. 0300.02 Division No. 1 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.V.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.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
196+00-N	21		8:06	93°00'		
N-11	22			93°00'		
					Range Line	196+00-N

76L298 307 8-53

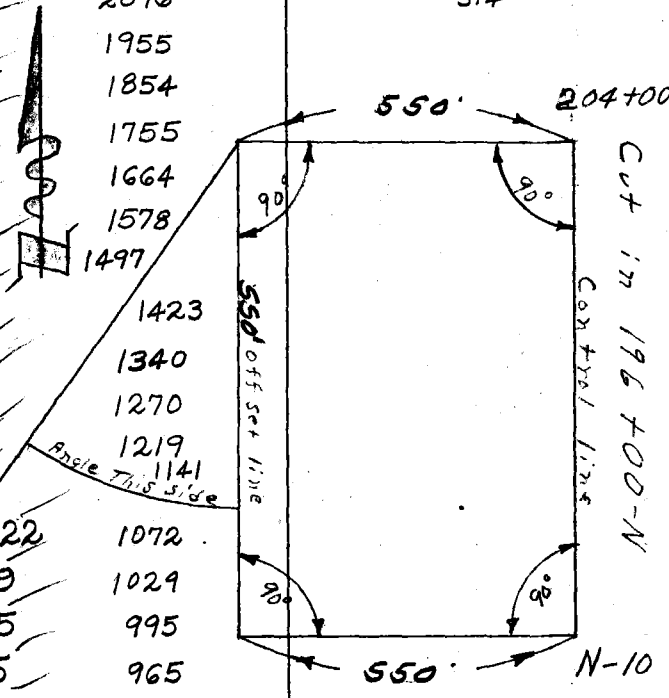
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
	1	28.6 ✓ 25.2	8:03	62° 20'	1526	2076
	2	27.9 ✓ 24.5		60° 21'	1405	1955
	3	27.2 ✓ 23.8		58° 29'	1304	1854
	4	26.4 ✓ 23.0		56° 25'	1205	1755
	5	25.7 ✓ 22.3		54° 19'	1114	1664
	6	25.6 ✓ 22.2		52° 07'	1028	1578
	7	24.5 ✓ 21.1		49° 48'	947	1497
	8	23.9 ✓ 20.5		47° 30'	873	1423
	9	22.9 ✓ 19.5		44° 38'	790	1340
	10	Edge of 22.1 Jetty 18.7		41° 59'	720	1270
	11	21.3 ✓ 17.9		39° 55'	669	1219
	12	20.0 ✓ 16.6		36° 26'	591	1141
	13	18.2 ✓ 14.8		33° 08'	522	1072
	14	17.3 13.9		30° 56'	479	1029
	15	15.7 ✓ 12.3		29° 05'	445	995
	16	14.9 ✓ 11.5		27° 24'	415	965
	17	14.1 ✓ 10.7		25° 42'	385	935
	18	13.4 ✓ 10.0		24° 12'	360	910
	19	12.6 9.2		22° 17'	328	878
	20	11.7 8.3		20° 40'	302	852

Zero Adj. -0.5
Boat Adj. +1.0
Tide -3.9
-3.4



204+00

N-10

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2303 Pg. 163
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 PG. 164 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed R C Johnson Date Date Date No.

204+00

N-10

STATION Inst. Sight At On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
	21	10.4 ✓ 7.0		180° 26	267 ✓ 817 cut-in 196+00-N
	22	8.9 ✓ 5.5	8:06	16° 54	243 ✓ 793

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.

76L298 S & E #307 9-54

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.

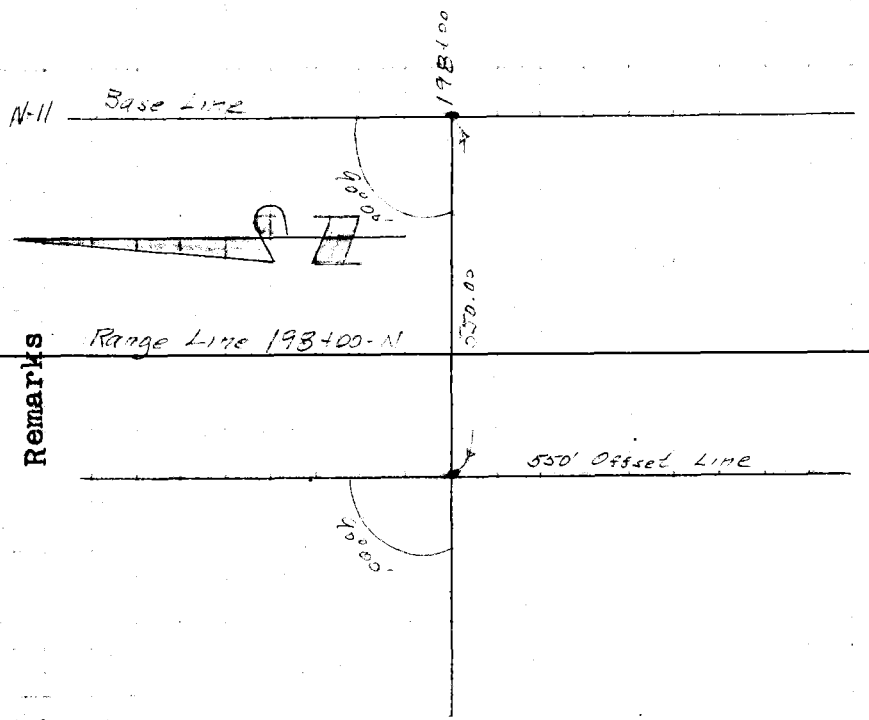
Cut-in ∡

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 194+00	Sight on 198+00
194+30						
T.P. 718 FT. L.	10 99	17 78		6 79	(550' Offset)	
T.P.	5 97	19 31	4 44	13 34	1X2 196+00 550 FT LEFT	
198+00			45	14 3		
15 FT. LEFT			46	14 7		
100 " "			60	13 3		
200 "			55	13 8		
275 " "			77	11 6		
300 " "			87	10 6	LOW	
400 " "			56	13 7		
500 " "			51	14 2		
550 " "			56	13 7		
596 "			50	14 3		
600 " "			55	13 8		
630 " "			98	9 5	NEAR WATER	
T.P.	1 0	9 1	11 21	8 10		
			6 5	2 6	17° 03' 123	673
			10 8	-1 7	23 12 171	721
			15 2	-6 1	29 43 228	778
			17 5	-8 4	34 50 278	828
			18 5	-9 4	37 34 308	858

INSHORE
N. 198+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 165
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DRIER & NELSH Notes S.D. & E.E. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 167
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Ocken	Notes J.J.E.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		8:13	Void	
	2			Void	
	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		8:16	90°00'	

N-11

198+00-N

On 550' Offset Line

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

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

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG 168 | Job No 2300.02 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 R. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
198+00-N						
N-11						
Inst. sight At OH	#	Color	Time			Range Line 198+00-N

Do not extend notes this side of this line.

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.

76L298 307 8-53

76L298 307 8-53

PLEASE RETURN TO
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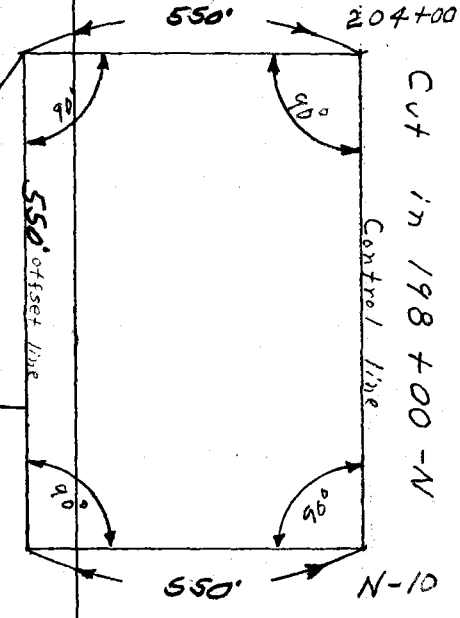
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	29.1 ✓ 25.5	8:12	68° 40'	1536	2086
	2	28.2 ✓ 24.6		66° 56'	1409	1959
	3	27.4 ✓ 23.8		64° 25'	1253	1803
	4	27.3 ✓ 23.7		65° 10'	1297	1847 ?
	5	26.3 ✓ 22.7		62° 46'	1166	1716
	6	25.8 ✓ 22.2		60° 11'	1047	1597
	7	24.9 ✓ 21.3		57° 25'	939	1489
	8	24.0 ✓ 20.4		54° 19'	836	1386
	9	23.2 ✓ 19.6		51° 05'	743	1293
	10	22.2 ✓ 18.6		47° 42'	659	1209
	11	20.9 ✓ 17.3		44° 33'	591	1141
	12	19.4 ✓ 15.8		41° 02'	522	1072
	13	17.8 ✓ 14.2		38° 11'	472	1022
	14	16.8 ✓ 13.2		36° 14'	440	990
	15	16.2 ✓ 12.6		34° 08'	407	957
	16	14.6 ✓ 11.0		32° 04'	376	926
	17	13.7 ✓ 10.1		29° 30'	339	889
	18	12.9 ✓ 9.3		27° 29'	312	862
	19	12.1 ✓ 8.5		24° 51'	278	828
	20	10.4 6.8	8:16	22° 35'	250	800

Zero Adj. -0.5
Boat Adj. +1.0
Tide -4.1
-3.6



204+00

N-10

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 164
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Date ____
Made by Johnson

F. B. 2303 PG. 170 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed 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.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks

76L298 S & E #307 9-54

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.

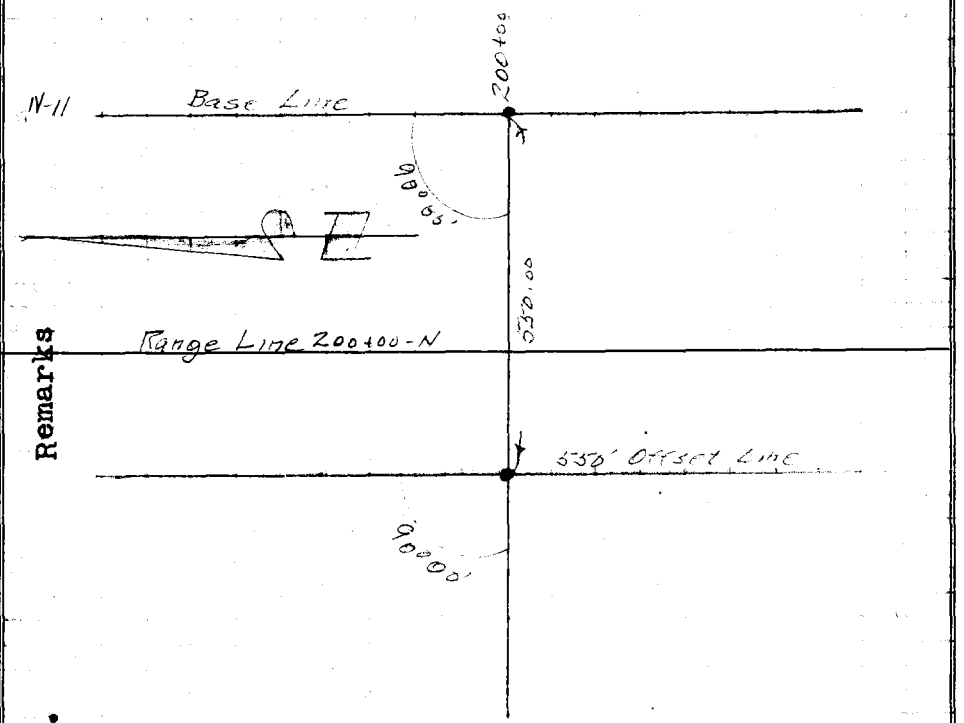
Cut-in ∡ (5 50' [illegible])

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 198+00	Sight on 200+00
198+00 T.P.	5 97	19 31		13 34	1 X 2 196+00	550 FT LEFT.
T.P.	5 00	19 45	4 91	14 40	1 X 2 200+00	" "
200+00			45	14 9		
14 FT. L.			39	15 5		
100 " "			52	14 2		
200 " "			56	13 8		
300 " "			86	10 8	[illegible]	
420			59	13 5		
420			53	14 1		
470 " "			59	13 5		
500 " "			50	14 4		
550 " "			50	14 4		
578 " "			49	14 5	5 ck	
600 " "			77	11 7		
T.P. 620 " "	-0 5	8 5	10 42	8 98		
			37	4 8	25° 13' 94	644
			98	-1 3	37 18 152	702
			135	-5 0	47 05 215	765
			165	-8 0	53 33 271	821
			182	-9 7	59 41 342	892

INSHORE
N. 200+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 16 F. B. 2303 Pg. 171
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREWER ENGLISH Notes GREEN Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 173
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-19-55	
No.	Date	Date	Map No. ~~Indexed~~ Johnson		Date	



Remarks	Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. 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'

N-11

200+00-N

On 550' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

F. B. 2303 PG. 174 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

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

Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR

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.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
200+00-N					
N-11					
	21		8:28	90°00'	Range line 200+00-N

76L298 307 8-53

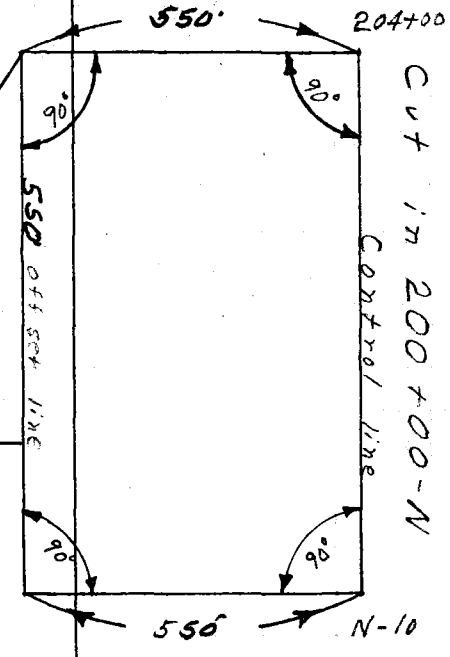
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. Sight At On	#	Color		Time	Hor. Ang.		Remarks
	1	30.6	26.8	8 23	76° 41'	1690	2240
	2	29.8	26.0		76° 09'	1622	2172
	3	29.3	25.5		75° 10'	1510	2060
	4	28.3	24.5		73° 41'	1366	1916
	5	27.7	23.9		72° 46'	1290	1840
	6	27.2	23.4		71° 44'	1212	1762
	7	26.5	22.7		69° 54'	1093	1643
	8	25.6	21.8		67° 12'	952	1502
	9	24.7	20.9		64° 26'	836	1386
	10	24.3	20.5		62° 08'	757	1307
	11	23.3	19.5		58° 27'	651	1201
	12	22.1	18.3		55° 34'	583	1133
	13	20.0	16.2		51° 46'	508	1058
	14	19.1	15.3		48° 55'	459	1009
	15	17.5	13.7		45° 52'	412	962
	16	16.4	12.6		43° 48'	384	934
	17	15.5	11.7		41° 22'	352	902
	18	14.7	10.9		38° 47'	321	871
	19	13.4	9.6		36° 46'	299	849
	20	11.7	7.9		33° 40'	266	816

Zero Adj. -0.5
Boat Adj. +1.0
Tide -4.3
-3.8



204+00
N-10

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F.B. 2303 Pg. 175
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 176 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed A. C. Johnson Date Date Date No.

204+00

N-10

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	21	10.6 6.8	8:28	30° 04	232 782 Cut in 200+00-N

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.

76L298 S & E #307 9-54

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.

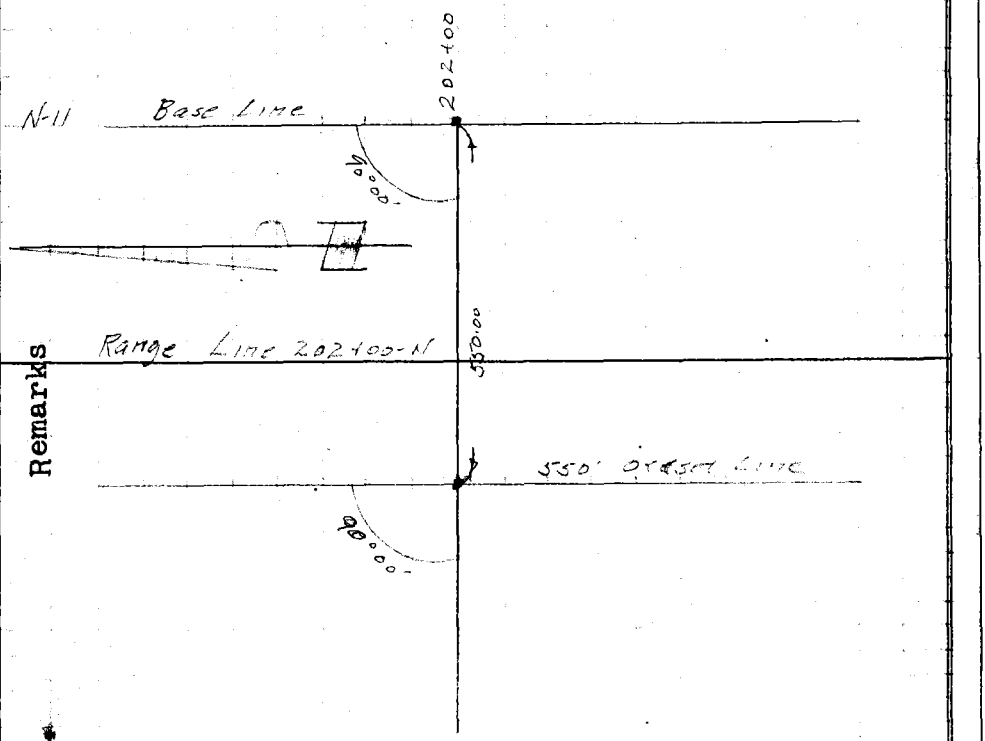
Do not extend notes this side of this line. Cut-in ∡ (550' offset)

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 98+00	Sight on 202+00
198+00						
T.P.	5 97	19 31		1334	1x2 196+00 550	FT LEFT
T.P.	5 00	19 40	4 91	14 40	1x2 200+00 "	" "
202+00			4 5	14 9		
20 FT.L.			4 1	15 3		
100 " "			4 9	14 5		
200 " "			5 1	14 3		
300 " "			6 1	13 3		
365 "			6 5	12 9		
400 "			5 0	14 4	BRK	
420 " "			4 7	14 7		
470 " "			5 8	13 6		
500 " "			4 7	14 7		
550 " "			4 9	14 5		
575 " "			4 6	14 8	BRK	
600			7 6	11 8		
615			15 5	8 9	NEAR WATER	
T.P.	-0 5	8 5	10 42	8 98		
			2 9	5 6	11° 24' 81	631
			8 4	0 1	18 09 131	681
			13 6	-5 1	26 27 199	749
			15 8	-7 3	30 34 236	786
			17 6	-9 1	35 01 280	830
			19.5	-11 0	38 58 324	874

INSHORE
N 202+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 177
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREISSIN ENGLISH Notes G. DOPEE Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Inspected Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 6300.02	Division No. 10	F. B. 2303	Pg. 179
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.F.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	



Remarks

STATION	B.S.	H.I.	F.S.	ELEV.	Hor. Ang.
Inst. At	Sight On	Color	Time		
	#				
	1		9:33		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'
				9:39	

N-11

202+00-N

On 550' Offset Line

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 8-53

F. B. 2303 PG. 180 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 K. C. Johnson Date _____ Date _____ Date _____ No. _____

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

202+00-N

N-11

Range line 202+00-N

76L298 307 8-53

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.

76L298 307 8-53

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

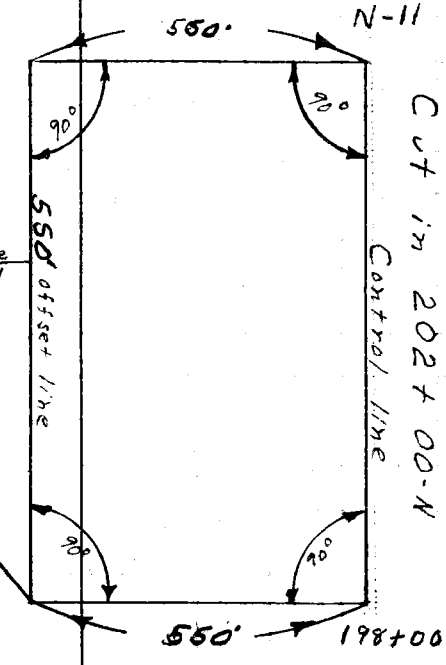
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.		F. S.	ELEV.		
Inst. At / Sight On	#	Color		Time	Hor. Ang.		Remarks
	1	30.0	25.2	9: 33	74° 38'	1455 +	2005
	2	29.3	24.5		73° 33'	1355	1905
	3	28.9	24.1		72° 02'	1234	1784
	4	28.2	23.4		71° 16'	1179	1729
	5	27.6	22.8		68° 54'	1037	1587
	6	26.9	22.1		67° 03'	945	1495
	7	26.6	21.8		65° 19'	870	1420
	8	25.8	21.0		62° 48'	778	1328
		Motor Trouble					
	9	26.0	21.2		63° 11'	791	1341
	10	25.0	20.2		59° 09'	692	1242
	11	24.1	19.3		56° 57'	615	1165
	12	22.8	18.0		53° 55'	549	1099
	13	21.3	16.5		51° 13'	480	1030
	14	19.8	15.0		48° 15'	448	998
	15	18.7	13.9		45° 20'	405	955
	16	16.8	12.0		41° 43'	357	907
	17	16.1	11.3		37° 08'	303	853
	18	13.8	9.0		34° 15'	272	822
	19	12.7	7.9	9: 39	30° 13'	233	783

198+00 N-11

Zero Adj. -0.6
Boat Adj. +1.0
Tide -5.2
-4.8



Angle This side

Cut in 202+00-N

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 181
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.J. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 PG. 182 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

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.

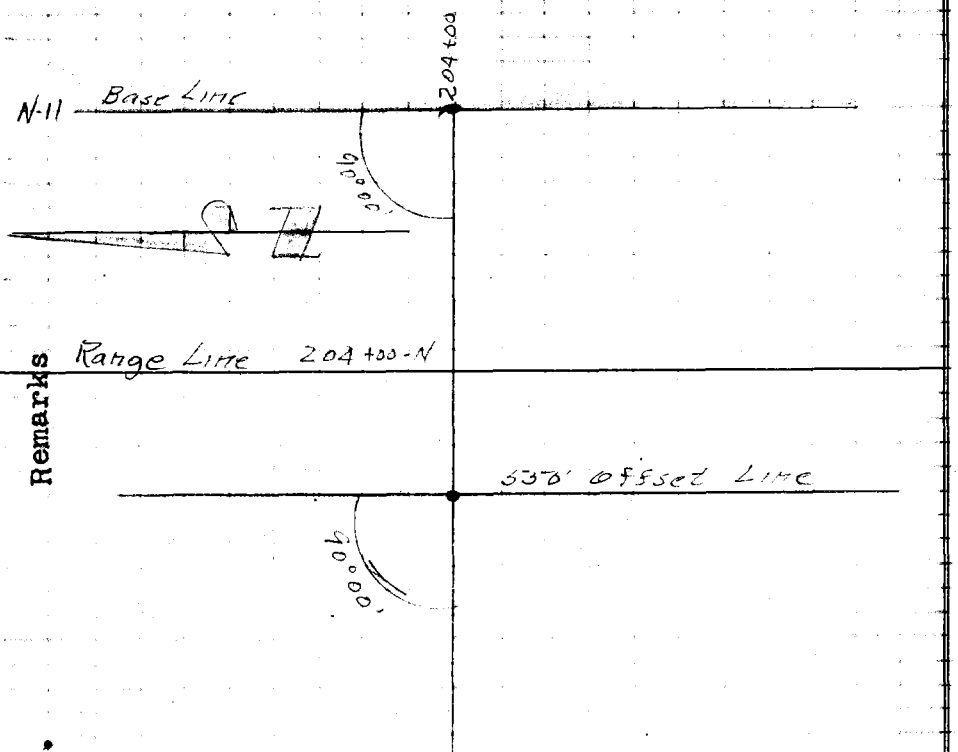
Sat-mix (550' [illegible])

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 202+00	Sight on 204+00
200+00 T.P.	5 00	19.40		14 40	1X2 200+00 500	FT. L.
T.P.	3 96	[illegible]	4 14	[illegible]	1X2 204+00 "	" "
[illegible]			4 5	14 7		
[illegible]			4 4	14 8		
77			5 9	[illegible]		
100			5 0	14 2		
148			3 5	15 7		
200			4 4	14 8		
300			6 5	13 7		
400			4 5	14 7		
428			4 1	15 1		
470			5 5	[illegible]		
500			4 7	[illegible]		
550			4 0	15 2		
570			4 1	15 1		
600			9 2	10 0		
T.P. 608 " "	-0 1	8 6	10 5 2	8 7 0		
			5 2	3 4	25 17 94	644
			10 4	21 8	37 [illegible] 153	703
			[illegible]	[illegible]	[illegible] 213	763
			19 5	10 9	[illegible] 306	856

INSHORE
N. 204+00

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2307 Pg. 183
No. ____ Date ____ Date ____ Survey of Beach Erosion
X-Sec. Notes Chkd. ____ Checked ____ Survey by EE&GD Notes EE&GD Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Inspected Johnson Date ____

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2302	Pg. 185
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J.J.E.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
	1		9:43	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'	
				9:46	

N-11

204+00-N

On

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

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76L298 307 8-53

F. B. 2303 PG. 186 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Date Date No.

Survey by Van Deren Notes J.V.E. 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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
204+00-N						
N-11						
					Range Line 204+00-N	

76L298 307 8-53

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

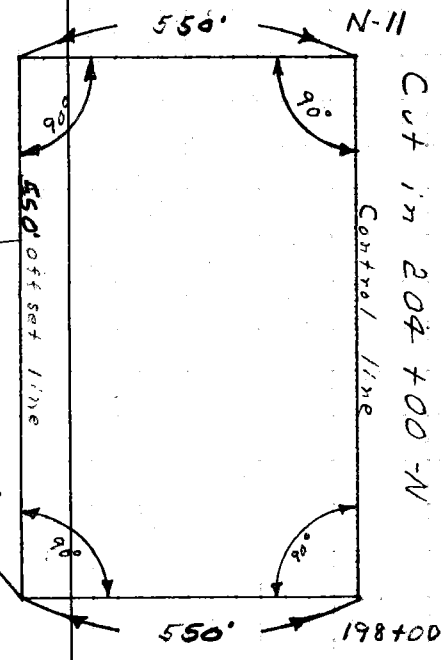
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. At / Sight On	#	Color	Time	Hor. Ang.			Remarks
	1	29.8 ✓ 25.1	9:43	66° 28'	1378	1928	
	2	29.3 ✓ 24.5		64° 43'	1270	1820	
	3	28.4 ✓ 23.7		62° 51'	1170	1720	
	4	28.0 ✓ 23.3		60° 42'	1069	1619	
	5	1010 ✓		58° 02'	961	1511	
	6	26.8 ✓ 22.1		52° 42'	788	1338	
	7	26.3 ✓ 21.6		50° 04'	717	1267	
	8	24.9 ✓ 20.2		45° 09'	603	1153	
	9	22.6 ✓ 17.9		41° 15'	526	1076	
	10	21.7 ✓ 17.0		38° 08'	471	1021	
	11	19.7 ✓ 15.0		35° 20'	425	975	
	12	18.7 ✓ 14.0		31° 36'	369	919	
	13	17.4 ✓ 12.7		29° 00'	333	883	
	14	15.1 ✓ 10.4		26° 14'	296	846	
	15	13.8 ✓ 9.1		23° 17'	258	808	
	16	11.3 ✓ 6.6	9:46	20° 02'	219	769	

198+00 N-11

Zero Adj. -0.5
Boat Adj. +1.0
Tide -5.2
-4.7

Angle this side



Cut in 204+00-N

Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 10 F. B. 2303 Pg. 187
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 2303 PG. 188 Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

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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 ∡ (550' Offset)

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 202+00	Sight on 206+00
200+00 T.P.	5 00	19 40		14 40	1X2 200+00	550 FT. LEFT.
T.P.	3 96	19 22	4 14	15 26	1X2 204+00	" " "
206+00			4 6	14 6		
6 FT L.			4 8	14 4		
100 " "			4 6	14 6		
200 " "			5 0	14 2		
300 " "			6 0	13 2		
325			7 0	12 2		
400			4 9	14 3		
428			4 4	14 8		
470			5 3	13 9		
500			4 3	14 9		
550			3 8	15 4		
564			4 0	14 2	BRK	
600			8 2	11 0		
620			11 6	7.6 ~~8 6~~	NEAR WATER	
T.R.	-0 1	8 6	10 52	8 7		
			5 6	3 0	13° 33' 96	646
			10 2	-1 6	19 32 142	692
			12 6	-4 0	24 24 181	731
			16 6	-8 0	31 47 248	798
			19 5	-10 9	37 12 304	854

INSHORE
N. 206+00

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 189
No. ____ Date ____ Date ____ Survey of BEACH FROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes G. DEE Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

Profile No. | Notes Red. | Plotted | Job No. 9300.0V | Division No. 10 | F. B. 2303 | Pg. 191
X-Sec. No. | Notes Chkd. | Checked | Survey by Van Dorn | Notes L. L. E. | Date 8-19-57
Date | Date | Map No. | Indexed J. C. Johnson | Date

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

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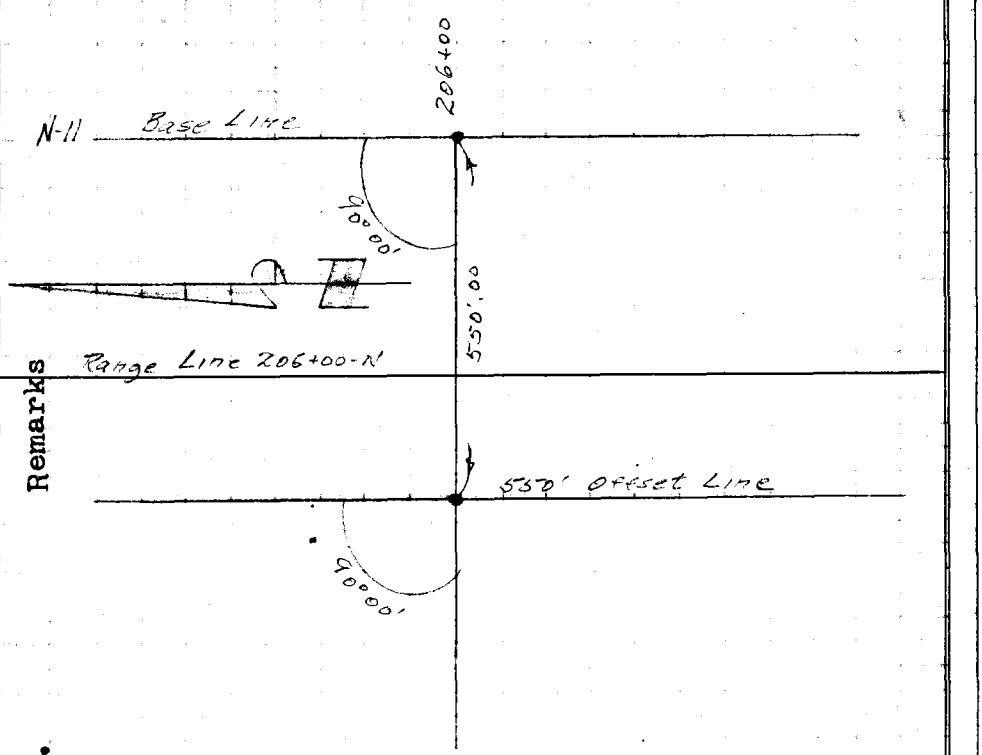
726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.



STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight On	#	Color	Time	Hor. Ang.
	1		9:52	90°00'
	2			90°00'
	3			90°00'
	4			90°00'
	5			90°00'
	10			90°00'
	7			90°00'
	8			90°00'
	9			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		9:55	90°00'
N-11				

206+00-N on 550' Offset Line

761.298 307 8-53

F. B. 2303 PG. 192 | Job No. 2300.01 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

761298 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
206+00-N						
N-11						
Inst. Sight On #						
At Color						
Time						
						Range Line
						206+00-N

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

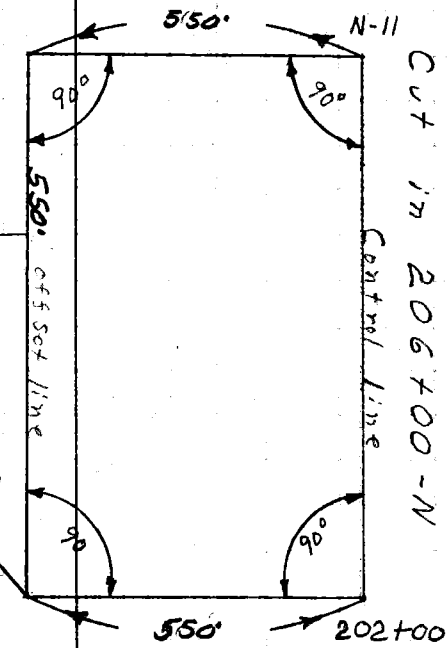
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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
	1	31.5 ✓	26.7	9:52	76° 28'	1662	2212
	2	31.2 ✓	26.4		75° 07'	1505	2055
	3	30.0 ✓	25.2		74° 00'	1395	1945
	4	29.4 ✓	24.6		72° 37'	1278	1828
	5	28.3 ✓	23.5		71° 08'	1171	1721
	6	28.1 ✓	23.3		69° 15'	1056	1606
	7	27.6 ✓	22.8		67° 02'	944	1494
	8	27.0 ✓	22.2		65° 02'	859	1409
	9	26.4 ✓	21.6		63° 02'	786	1336
	10	26.2 ✓	21.4		60° 21'	703	1253
	11	25.6 ✓	20.8		57° 45'	634	1184
	12	24.6 ✓	19.8		54° 16'	556	1106
	13	21.9 ✓	17.1		49° 20'	466	1016
	14	19.4 ✓	14.6		44° 45'	397	947
	15	18.3 ✓	13.5		41° 05'	349	899
	16	16.4 ✓	11.6		37° 48'	310	860
	17	14.7 ✓	9.9		34° 15'	272	822
	18	13.4 ✓	8.6		30° 57'	240	790
	19	11.0 ✓	6.2	9:55	26° 50'	202	752

Zero Adj. −0.5
Boat Adj. +1.0
Tide −5.3
−4.8

Angle This side



Cut in 206+00-N

202+00

N-11

Profile Notes Red. ____ Plotted ____ Job No. 300.02 Division No. 10 F. B. 2303 Pg. 193
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 2303 Pg. 194 | Job No. 0300.02 Division No. 10 Notes Red. Plotted Profile

Survey of Beach Erosion Study Date 8-19-55 Date No.

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

Indexed Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

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

76L298 S & E #307 9-54

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726 Los Angeles County Engineering Bldg.

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Do not extend notes this side of this line.

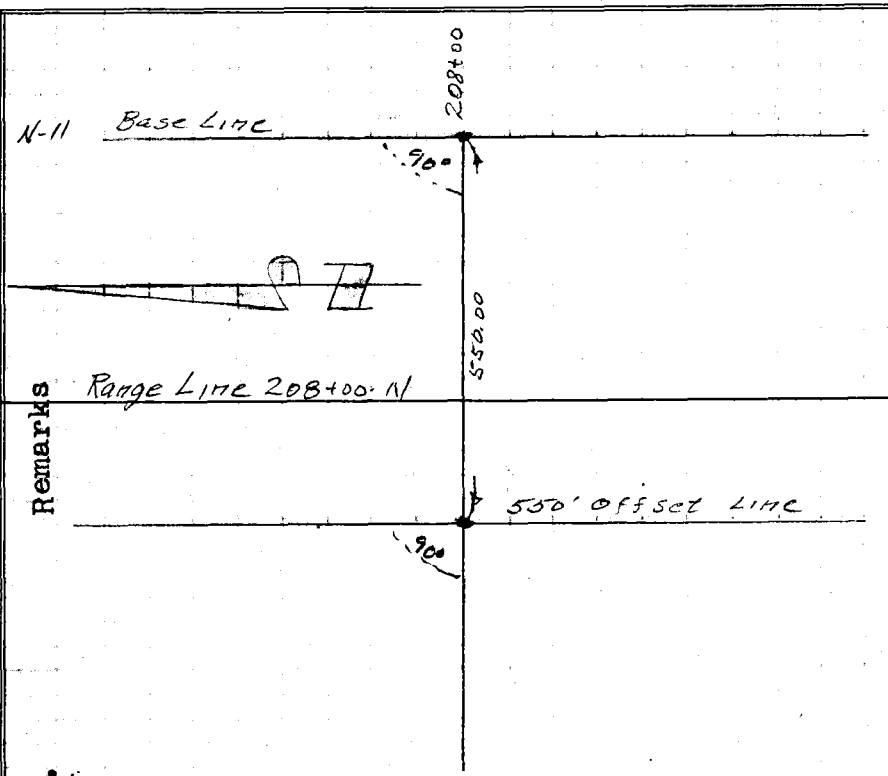
Cut-in A (550' Offset)

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 206+00	Sight on 208+00
204+00						
T.P.	3 96	19 22		15 26	1 X 2	204+00 5 S 15 FT LEFT
T.P.	4 22	19 17	3 07	15 75	1 X 2	205+00 " "
208+00		19.0	5 3	14		
15 FT LEFT			5 9	14 1		
100 " "			5 4	14 6		
200 " "			6 5	13.5 ~~14 5~~		
241 " "			7 0	13 0		
302 " "			6 1	13 9		
356 " "			6 6	13 4		
400 " "			5 3	14 7		
422 " "			5 2	14 8		
463 " "			5 7	14 3		
500 " "			5 2	14 8		
550 " "			4 5	15 5		
564 " "			4 6	15 4		
600 " "			10 3	~~10.7~~ 9.7		
615 " "	-5 3	6 17	12 80	7 17		
			5 5	1 9	25 40 96	646
			10 9	-4 0	37 40 154	704
			15 1	-8 2	47 45 220	770
			18 0	-11 1	53 23 269	819

INSHORE
N. 208+00

Profile Notes Red. Plotted Job No. 0300-33 Division No. 10 F.B. 7530 Pg. 9
No. Date Date Survey of DRAINAGE STUDY
X-Sec. Notes Chkd. Checked Survey by DRAINAGE SECTION Notes by D.R.E. Date 9-19-55
No. Date Date Map No. Checked J. Johnson Date

Profile	Notes Red.	Plotted	Job No. 0300.02	Division No. 10	F. B. 2303	Pg. 197
No.	Date	Date	Survey of Beach Erosion			
X-Sec.	Notes Chkd.	Checked	Survey by Van Deren	Notes J. J. E.	Date 8-19-55	
No.	Date	Date	Map No.	Indexed ~~J. C. Johnson~~	Date	



Remarks

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.
Inst. Sight At On	#	Color	Time		
	1		10:00	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		10:04	90°00'	

N-11

208+00-N
On 550' Offset 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.

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76L298 307 8-53

F. B. 2303 Pg. 198 | Job No. 8300.02 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

Survey by Van Deren Notes J. & E. | 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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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
					Inst. Sight At OH
208+00-M					
XI-11	#	Color	Time	Hor. Ang.	
					Range Line
					208+00-M

76L298 307 8-53

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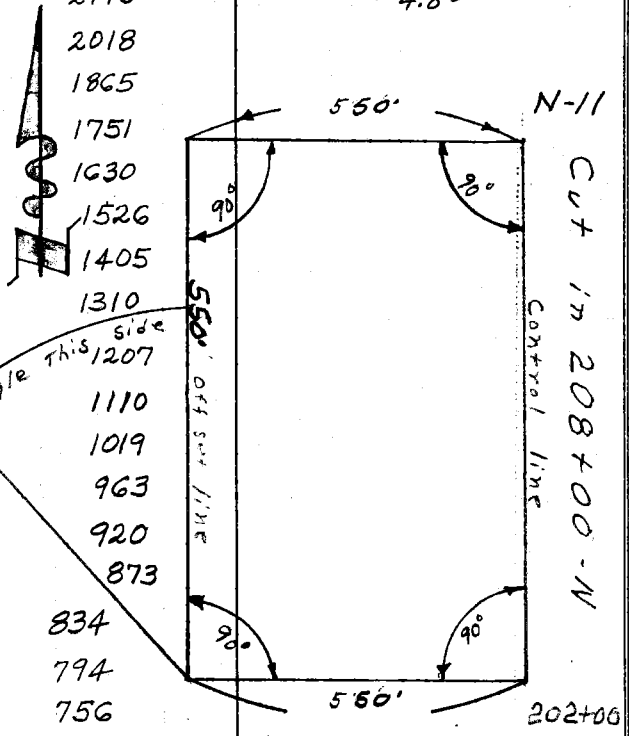
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. Sight At On	#	Color		Time	Hor. Ang.			Remarks
	1	Void		10:00	69° 45'	1626	2176	
	2	30.7	25.9		67° 46'	1468	2018	
	3	29.8	25.0		65° 28'	1315	1865	
	4	28.6	23.8		63° 27'	1201	1751	
	5	28.4	23.6		60° 57'	1080	1630	
	6	27.8	23.0		58° 25'	976	1526	
	7	27.4	22.6		54° 56'	855	1405	
	8	26.4	21.6		51° 42'	760	1310	
	9	25.7	20.9		47° 36'	657	1207	
	10	24.5	19.7		43° 00'	560	1110	
	11	21.9	17.1		38° 01'	469	1019	
	12	20.9	16.1		34° 32'	413	963	
	13	18.5	13.7		31° 38'	370	920	
	14	16.9	12.1		28° 19'	323	873	
	15	15.3	10.5		25° 18'	284	834	
	16	13.5	8.7		22° 06'	244	794	
	17	11.5	6.7	10:04	18° 57'	206	756	

Zero Adj. -0.5
Boat Adj. +1.0
Tide -5.3
-4.8



202+00
N-11

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 199
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Study
Notes Chkd. ____ Checked ____ Survey by Van Deren Notes R.T. Date 8-19-55
Date ____ Date ____ Map No. ____ Date ____

F. B. 2303 PG. 200 Job No. 0300.02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-19-55 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR

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.	Remarks
Inst. Sight					
At On	#	Color	Time	Hor. Ang.	

76L298 S & E #307 9-54

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Profile Notes Red. Plotted Job No. 330062 Division No. 10 F. B. 23053 Pg. 201
No. Date. Date. Survey of BEACH PROGRAM STUDIES
X-Sec. Notes Chkd. Checked Survey by ENGINEERING Notes EDDEE Date 8-19-55
No. Date. Date. Map No. Checked JOHNSON Date

Cut-in X (550' Rt.)

STATION	B. S.	H. I.	F. S.	ELEV.	Just. of 206+00	Sight on 210+00
T. P.	3 96	19 22		15 26	204+00	550 FT. LEFT
T. P.	4 22	19 97	3 47	15 75	208+00	550 " " (See pg. 207 for check-in)
210+00		20.0	5 7	14 3		
15 FT L.			5 3	14 7		
100 " "			6 0	14 0		
200 " "			6 2	13 8		
243 " "			6 5	13 5		
300 " "			8 2	11 8	LOW	
400 " "			5 9	14 1		
422 " "			5 6	14 4		
463 " "			5 7	14 3		
500 " "			5 2	14 8		
550 " "			4 4	~~15 6~~ 15 6		
561			4 4	~~15 6~~ 15 6	BRK	
600			10 0	10 0		
620			13 0	7 0		
T. P.	0 3	5 9	12 80	7 17	NEAR WATER	
			3 2	+3 7	100 56' 77'	627
			7 6	-3 7	16 29 118'	668
			11 3	-7 7	23 09 170'	720
			13 2	-2 3	28 39 219'	769
			18 5	-11 6	35 53 289'	839

INSHORE
N 210+00

F. B. 2303 Pg. 203

Profile No. | Notes Red. | Date | Plotted | Date | Job No. 6300.02 | Division No. 10
X-Sec. No. | Notes Chkd. | Date | Checked | Date | Survey of Beach Erosion
Survey by Van Doren Notes V.V.E. Date 8-19-53
Map No. | Indexed C. Johnson Date

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

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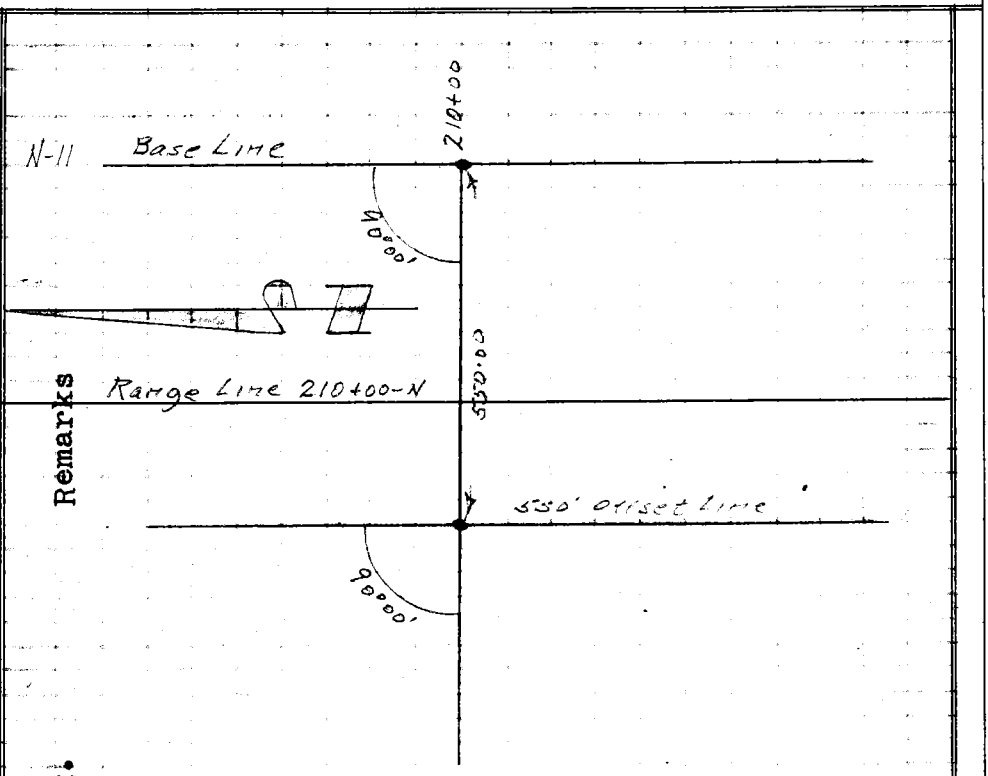

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
At Station	#	Color	Time	Hor. Ang.	
	1		10:08	90° 00'	
	2			90° 00'	
	3			90° 00'	
	4			90° 00'	
	5			90° 00'	
	6			90° 00'	
	7			90° 00'	
	8			90° 00'	
	9			90° 00'	
	10			90° 00'	
	11			90° 00'	
	12			90° 00'	
	13			90° 00'	
	14			90° 00'	
	15			90° 00'	
	16			90° 00'	
	17		10:11	90° 00'	
Inst. Sight On					N-11 210+00-N on 550' Offset Line

761298 307 8-53

F. B. 2303 Pg. 209 | Job No. 23000-2 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Beach Erosion | Date | Date | No.

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

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

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
210 +00 - N					
N-11					
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
					Range Line
					210+00-N

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

761298 307 8-53

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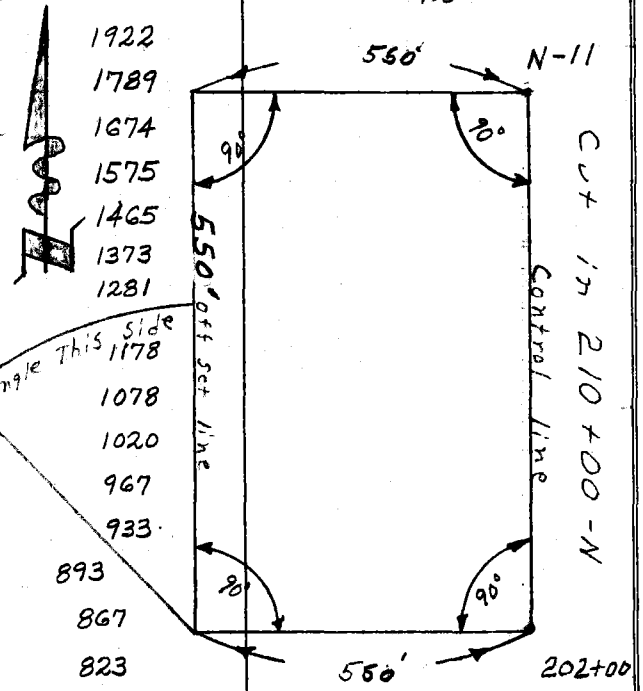
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	1	30.7 ✓ 25.9	10:08	62° 58'	1568	+550 = 2118
	2	30.0 ✓ 25.2		59° 45'	1372	1922
	3	28.9 ✓ 24.1		57° 09'	1239	1789
	4	28.7 ✓ 23.9		54° 34'	1124	1674
	5	28.4 ✓ 23.6		52° 02'	1025	1575
	6	27.7 ✓ 22.9		48° 50'	915	1465
	7	27.1 ✓ 22.3		45° 48'	823	1373
	8	26.7 21.9		42° 26'	731	1281
	9	25.5 ✓ 20.7		38° 08'	628	1178
	10	24.3 ✓ 19.5		33° 35'	528	1078
	11	22.2 ✓ 17.4		30° 26'	470	1020
	12	20.1 ✓ 15.3		27° 32'	417	967
	13	19.1 ✓ 14.3		25° 35'	383	933
	14	18.4 ✓ 13.6		23° 14'	343	893
	15	17.0 ✓ 12.2		21° 38'	317	867
	16	15.3 ✓ 10.5		18° 50'	273	823
	17	13.5 8.7	10:11	16° 34'	238	783

Zero Adj. - 0.5
Boat Adj. + 1.0
Tide - 5.3
- 4.8



202+00

N-11

Profile Notes Red. Plotted Job No. 0300.02 Division No. 10 F. B. 2303 PG. 205
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Van Deren Notes R.T. Date 8-19-55
No. Date Date Map No. Indexed Johnson Date

F. B. 2303 PG. 206 Job No. 0300-02 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date 8-19-55 Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 8-53

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

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	422	1997		1575	1+2 208+00	550 FT LEFT (pg. 201
T.P.	557	1978	576	1421		
N-11			606	1372	N-11 211+91 10	
B.M. 48-2 UNADJ			633	1345	N-13 B.M. 48-2 ELEV. 10.681 (UNADJ. FIELD)	
					℄ SDWAY & 51ST AVE 2.800	
					M.L.L.W. 13.481	

(Check-in from pg. 201)

Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 10 F. B. 2303 Pg. 207
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by DREIER Notes GD&EE Date 8-19-55
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____