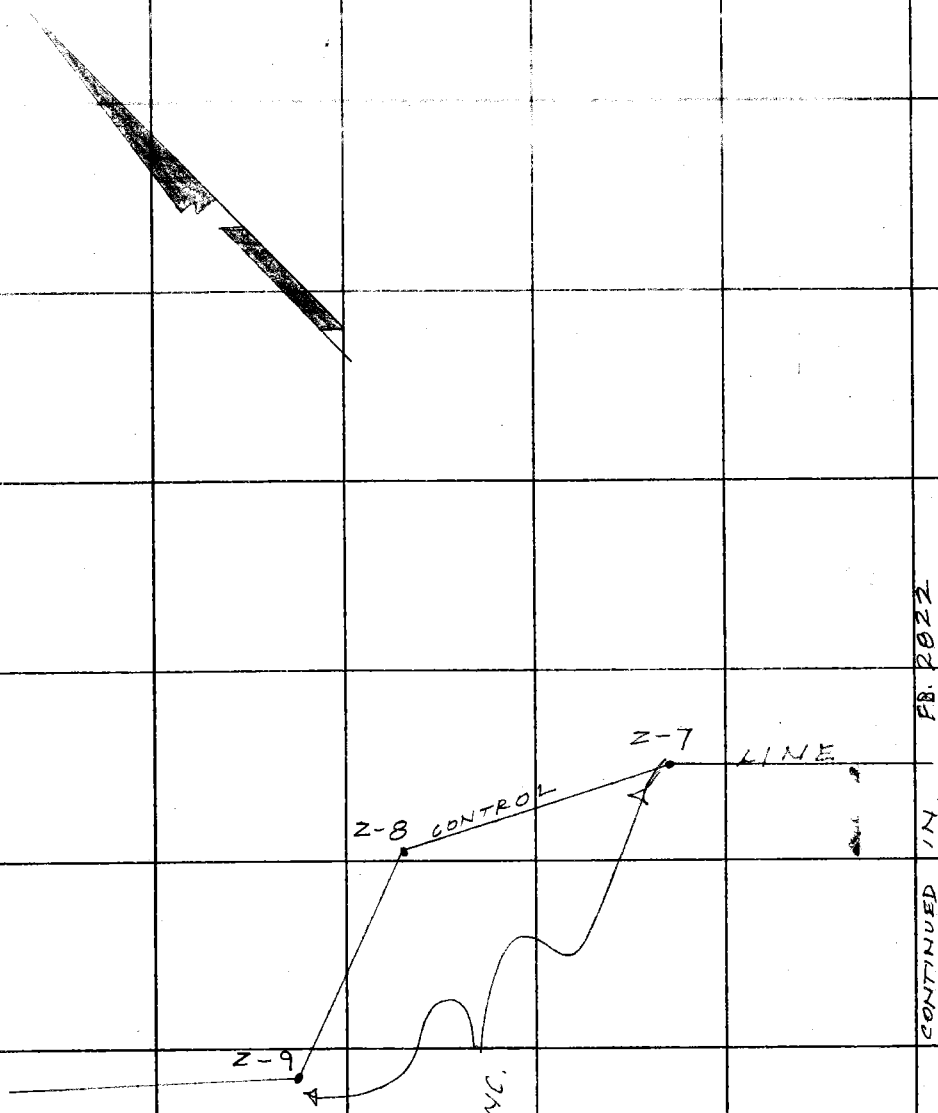
d by	Survey of HYDRO-SURVEY JN030002 Tape — Std — °F Surveyed by W. A. RICHARDS Notes W.A.R. Date 7-70 Indexed H. E. OTT 11 23 70			F. B. 2823 Pg. 5
	J.N. 030002			
	HYDROGRAPHIC SURVEYS			
	OM: WESTWARD BEACH (POINT DUME)			
	O : SECHUZA POINT			
	NTINUED FROM FB. 2822 PG. 264			
	OTE: VERTICAL DATUM = M.L.L.W.			
	TIME IS PACIFIC STANDARD TIME			
	NTROL SURVEYS	REF.: FB.	2100	
		" "	930	
		" C.S.B.	2311-1	
	RVEY LETTER NO. 5534			(A)
	ARDS	BAZEN	MYERS	DREIER
	KS	KAPP	LEGAULT	MALDONADO
	EZ	TURRILL	BUSTRUM	SIEMAN
	BER	TULLIER	PRIEBE	McKNIGHT
				+ SWIMMERS

F. B2823 PG. 6

AREA MAP
NO SCALE



FB. 2823
PG. 5-44, INC.

CONTINUED IN FB. 2822

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DEPARTMENT OF COUNTY ENGINEER
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Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0300-02 Tape Std. °F
Office Work	Surveyed by RICHARDS
Checked	Notes UHARRIET Date 7-6-70
Date	Indexed H. E. OTT JUL 23 '70

F.B. 2823 PG. 7

TIDE GAGE READINGS
JULY 6, 1970
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	-0.3
6:30	0.0
7:00	0.3
7:30	0.8
8:00	1.2
8:30	1.8
9:00	2.2
9:30	2.7
10:00	3.0
10:30	3.3
11:00	3.4
11:30	3.7
12:00	3.6
12:30	3.5
13:00	3.3
13:30	3.1
14:00	3.0

NOTE – TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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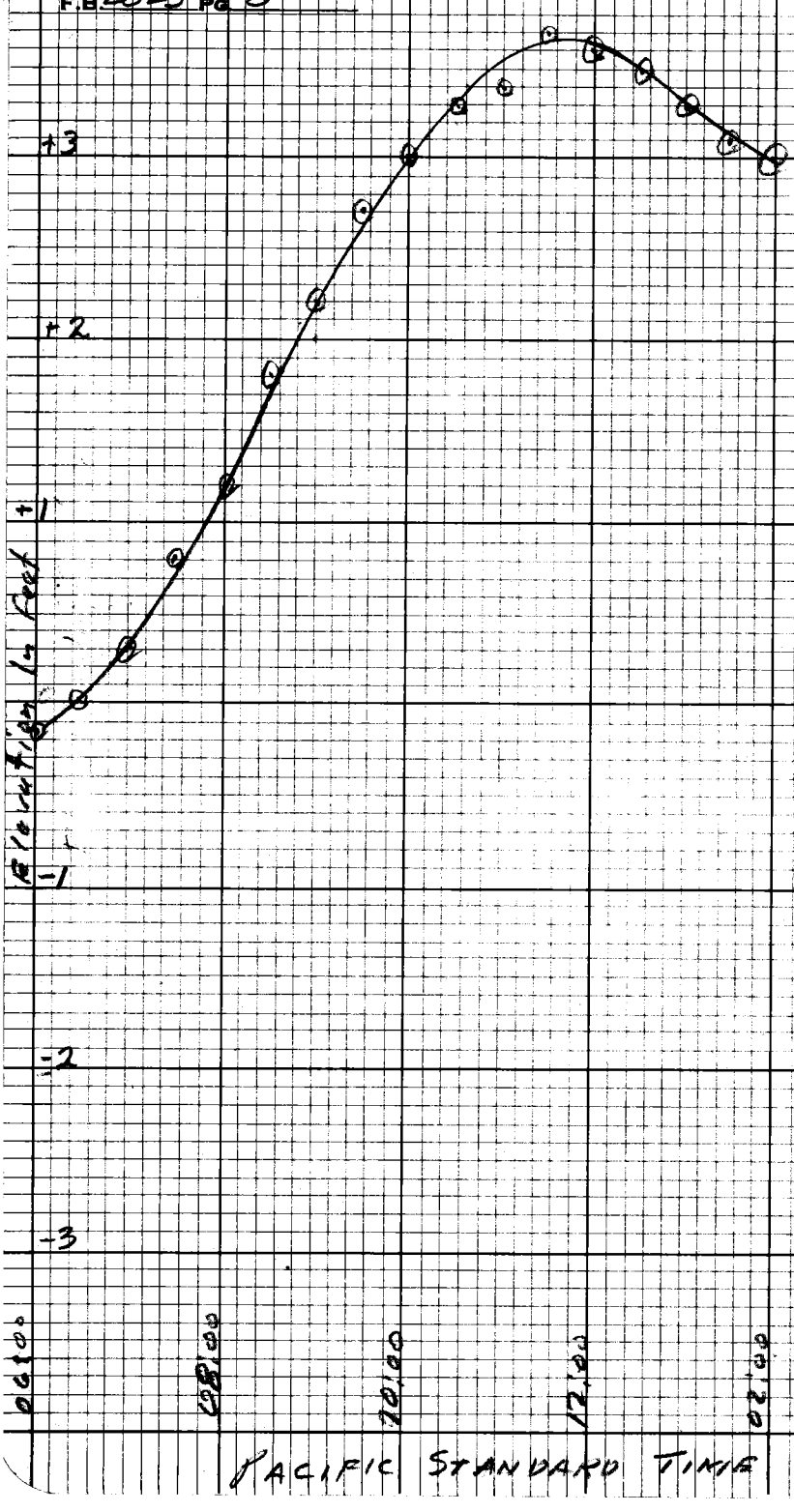
75F3098 CE #310 9-67

TIDE CURVE July 6, 1970

F.B. 2823 Pg. 8



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76-L-298 CE 307 2-63

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STATION	B. S.	H. I.	F. S.	ELEV.	195+00 (100' offset To Left)		
192+00				12 06	100' Lt. 1"x2" From Last Pg.		
195+00				11 13	100' Lt. 1"x2" Stk.		
				12 2			6' Rt. Top Brk.
				14 9			100' Rt (Sand Near Use control Line)
		3		4 60	41' Lt. M.H.W.		
	164	628		4 64	41' Lt. 1"x2" Stk. T.P.		
					π occupy Z-7		100 FT, SLY, SIGHT 195+00, 100 FT SLY
			3 0	3 3	58 FT LEFT		
			4 6	1 7	1	21°	14'
			6 2	0 1	2	28	45
			6 9	0 6	3	33	46
			7 6	-1 3	4	36	58
			8 5	-2 2	5	41	22
			9 8	-3 5	6	46	40
			10 6	-4 3	7	48	24
			12 7	-6 4	8	52	35
			15 7	-9 4	9	55°	22'

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2823 Pg. 9
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chkd. ____ Checked ____ Survey by Myers & Preier Date 7-6-70
Date ____ Date ____ Map No. ____ Indexed H. E. Ott Date 7 23 70

F.B. 2823 Pg. 10 | Job No. 0300 02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of Beach Erosion (Zuma Beach | Date | Date | No.

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

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

STATION	B.S.	H.I.	F.S.	ELEV.
				195700 (100' OFFSET TO LEFT)

DATUM
MEAN LOWER LOW WATER

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403 Los Angeles County Engineering Bldg.

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76-L-298 CE 307 2-63

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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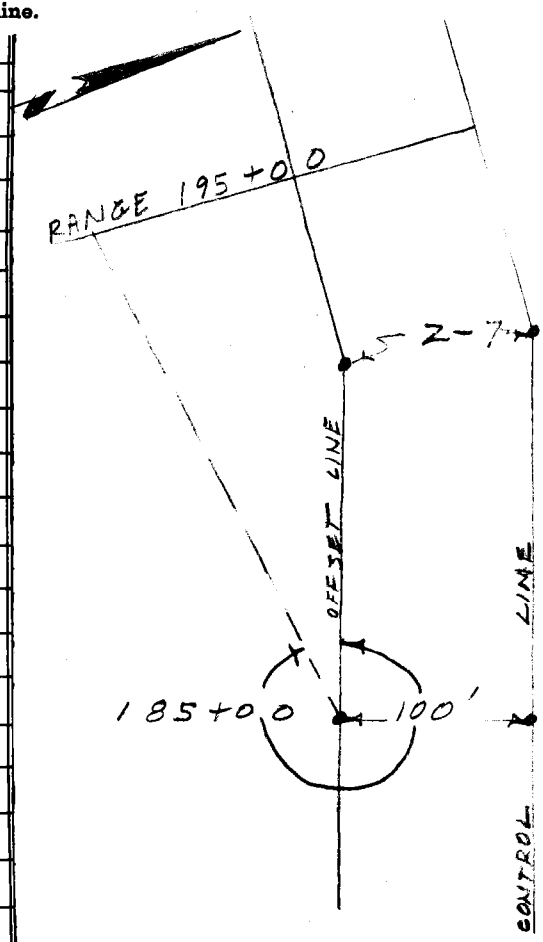
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	Z-7	6:56	1	279	36			
			2	—	—			
			3	280	59			
			4	281	56			
			5	283	01			
			6	283	40			
			7	284	28			
			8	285	40			
			9	286	42			
			10	287	00			
			11	288	04			
			12	289	00			
			13	290	06			
			14	291	05			
			15	292	13			
			16	293	19			
			17	294	28			
			18	295	35			
			19	296	52			
			20	298	22			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes WAR Date 7/6/70

Date ____ Date ____ Map No. ____ Indexed M. E. OD Date JUL 23 '70

Fa. Pg. 2823 Pg. 11

76L298 307 Cdb 12-62

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RANGE 195+00

CONTINUED.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	Z-7		21	300	10			
			22	301	58			
			23	304	07			
			24	306	06			
			25	307	14			
			26	309	10			
			27	310	29			
			28	312	51			
			29	314	29			
			30	316	17			
			31	318	00			
			32	319	12			
			33	321	35			
			34	322	23			
			35	324	05			
			36	325	19			
			37	326	51			
			38	328	31			
			39	330	14			
			40	332	25			
			41	333	11			

F.B. 2823 Pg. 12 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes W.A.R. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

76L298 307 Cdb 12-62

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CONTINUED

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range	Line Deg.	Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch						
195+00	Z-7		42	335	03				
			43	335	59				
		7:01	44	337	11				

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2023 Pg. 13

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

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by RICHARDS Notes WDR Date 7/6/70

Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 2823 Pg. 14 | Job No. 030002 Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes W.A.R. Notes Chkd. Checked X-Sec.

Indexed H. E. OTT Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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.

761298 307 Cdb 12-62

76-L-298 CE 307 2-63

12' 4.72

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

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STATION	B. S.	H. I.	F. S.	ELEV.	197+50 (100' Offset To Left)	
195+00				11 13	100' Lt. 1"x2" T.P. Fr	
197+50				6 31	100' Lt. 1"x2" Stk.	
				72 8		36' Rt. Top Brk.
				11 3		100' Rt. Sand (Control line)
		8		4 60	12' Lt. M.H.W.	
	2 06	6 78		4 72	12' Lt. 1"x2" Stk.	
					⊼ OCCUPY Z-7, OFFSET 100 S. SIGHT 197+50	100 FT SLY
			16 2	-9 4	1 34° 58'	(DROPS FAST OUT)
			16 4	-9 6	2 33 18	LARGE ROCK 20 FT. W.
			12 0	-5 2	3 29 28	
			10 3	-3 7	4 24 28	
			8 9	-2 1	5 20 30	
			7 4	-0 6	6 16 15	
			6 8	0 0	7 12 07	
			4 8	2 0	8 08 35	
			4 2	2 6	9 6° 51'	
			3 7	3 1	28 FT FT LEFT	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2823 Pg. 15
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
Notes Chkd. ____ Checked ____ Survey by MYERS & DREIER Date 7/6/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F.B. 2823 Pg. 16 | Job No. 0300 02 Division No. 11 | Notes Red | Plotted | Profile

Survey of Beach Erosion (Zuma Beach) | Date | Date | No.

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

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

76-L-298 CE 307 2-63

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STATION	B.S.	H.I.	F.S.	ELEV.
				197+50 (100' offset to left)

DATUM

MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

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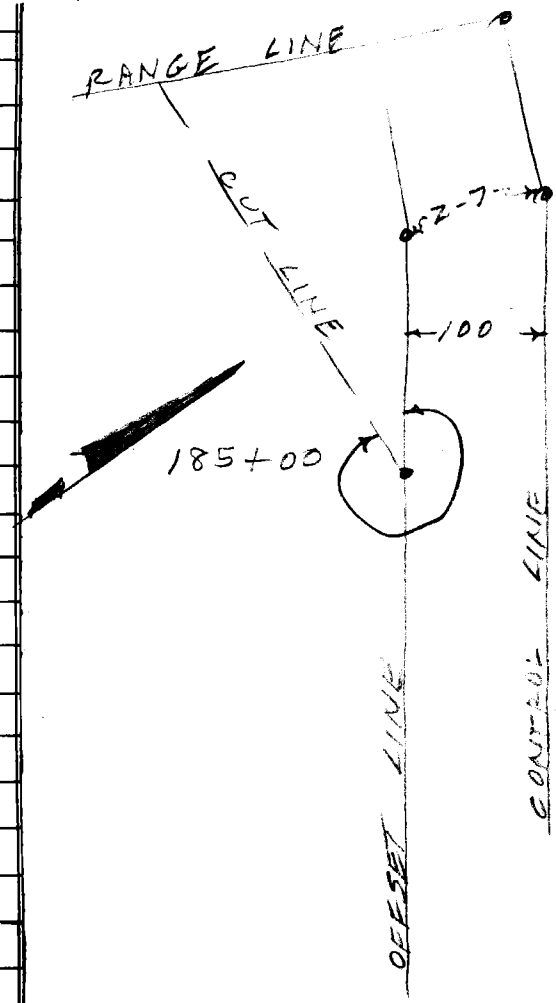
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	2-7	7:10	1	285	15			
			2	286	16			
			3	287	02			
			4	287	42			
			5	288	13			
			6	289	04			
			7	290	00			
			8	291	10			
			9	292	00			
			10	292	52			
			11	294	04			
			12	294	55			
			13	296	00			
			14	297	06			
			15	298	09			
			16	299	22			
			17	300	31			
			18	302	07			
			19	303	32			
			20	304	54			

RANGE 197 +50



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 23002 Division No. 11 F. B. 2873 Pg. 17
X-Sec. No. ____ Date ____ Date ____ Survey of ZUMA BEACH
Notes Chkd. ____ Checked ____ Survey by RICHARD S. Notes W.A.P. Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed M. E. OTT Date JL 23 70

76L298 307 Cdb 12-62

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INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	Z-7		21	306	16			
			22	307	37			
			23	309	19			
			24	310	47			
			25	312	12			
			26	314	06			
			27	315	31			
			28	316	53			
			29	318	16			
			30	319	13			
			31	320	51			
			32	321	53			
			33	323	04			
			34	324	13			
			35	325	04			
			36	326	36			
			37	327	36			
			38	328	09			
			39	329	30			
			40	330	05			
			41	330	25			
		7:15	42	331	15			

RANGE 197+50
CONTINUED

F. B. 2823 Pg. 18 | Job No. 03000.2 | Division No. 11 | Notes Red. | Plotted | Profile
Survey of ZUMA BEACH | Date | Date | No.
Survey by RICHARDS | Notes W.A.P. | Notes Chkd. | Checked | X-Sec.
Indexed H. E. OTT | Date | Date | Date | No.

76-L-298 CE 307 2-63

3'4.60

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STATION	B. S.	H. I.	F. S.	ELEV.	200+00 (100' offset To Left)	
197+50				6 31	100' Lt. 1"x2" From	Last Pg.
200+00	178			4 99	100' Lt. 1"x2" Stk.	
				11 4		42' Rt. Top Brk.
				11 7		100' Rt. Sand (Control line)
				12 3		140' Rt. Bot. Brk
				4 60	3' Lt. M.H.W.	
		7			↑ OCCUPY 195+00	100 OFFSET, SIGHT 200+00 100 FT. SLY
		6 67				
			3 3	3 4	15 FT LEFT	
			4 5	2 2	#1 6° 45'	
			6 0	0 7	2 7 56	
			7 0	-0 3	3 11 40	
			7 5	-0 8	4 14 32	
			8 3	-1 6	5 17 34	
			9 5	-2 8	6 21 35	
			10 8	-4 1	7 25 50	
			12 2	-5 5	8 28 17	
			16 4	-9 7	9 31 12	
			15 5	-8 8	10 (IN) 30° 49'	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2823 Pg. 19
Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by COYERS & DREIER Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed H. F. OTT Date JUL 23 '70

F.B. 2823 Pg. 20 | Job No. 0300 02 | Division No. 11 | Notes Red | Plotted | Profile

Survey of Beach Erosion (Zuma Beach) | Date | Date | No.

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

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

STATION	B.S.	H.I.	F.S.	ELEV.
				200+00 (100' offset to left)

DATUM

~~MEAN LOWER LOW WATER~~

76-L-595 CE 307 2-63

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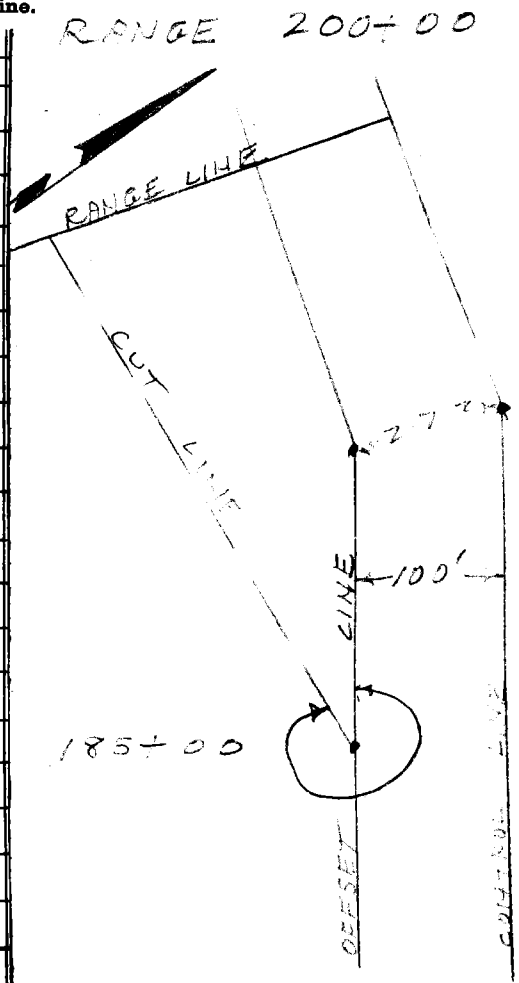
INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	Z-7	7:26	1	290	33			
			2	291	24			
			3	292	23			
			4	293	09			
			5	294	09			
			6	295	11			
			7	296	14			
			8	297	04			
			9	298	04			
			10	299	03			
			11	300	20			
			12	301	23			
			13	302	12			
			14	303	10			
			15	303	58			
			16	304	46			
			17	306	00			
			18	307	05			
			19	308	14			
			20	309	22			



Profile Notes Red. ____ Plotted ____ Job No. 030502 Division No. ____ F.B. 2823 Pg. 21
No. ____ Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARD S. Notes W.A.R. Date 7/6/70
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

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Do not extend notes this side of this line.

RANGE 200+00

CONTINUED

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	2-7		21	310	37			
			22	311	52			
			23	312	58			
			24	314	25			
			25	315	40			
			26	316	55			
			27	318	05			
			28	319	22			
			29	320	35			
			30	321	43			
			31	322	38			
			32	323	25			
			33	324	22			
			34	325	19			
	KELP		35	326	19			
			36	327	25			
			37	328	47			
			38	329	41			
			39	330	39			
			40	331	25			

F.B. 2823 PG. 22 Job No. 0300,02 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes W.A.R. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

76L298 307 Cdb 12-62

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Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
85+00	2-7		41	332	35			
			42	333	18			
			43	334	31			
			44	335	36			
			45	337	13			
		7:33	46	338	53			

RANGE 200+00

CONTINUED

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F.B. 2873 Pg. 23

No. ____ Date ____ Date ____ Survey of ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

F. B. 2823 Pg. 24 | Job No. 030092 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of ZUMA BEACH Date _____ Date _____ No. _____

Survey by RICHARDS Notes W. A. P. Notes Chkd. _____ Checked _____ X-Sec.

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

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	202+00 (100' offset To Left)			
200+00				4.99	100' Lt. 1"x2" Stk. T.P. from last Fg.			
202+00	1.36			5.14	100' Lt. 1"x2" Stk.			
				12.3				38' Rt. Top Brk.
				12.5				115 Rt. Bot Brk
				16.5				154' Rt. Bot. Bank
				4.60	3' Lt. M.H.W.			
					T occupy 195+00 SIGHT AHEAD (ON OFFSET)			
		6.50	13.9	-7.4	1	23°	03	
			15.2	-9.3	2 OUT	24	50	
			16.6	-10.1	3 OUT	26	15	
			13.5	-7.0	4 IN	23	18	
			14.0	-7.5	5 IN OR OUT?	23	51	
			12.7	-6.2	6 IN	22	23	
			10.5	-4.0	7	18	42	
			8.5	-2.0	8	13	40	
			7.0	-0.5	9	9	41	
			6.0	0.5	10	6	27	
			5.2	1.3	11	4	20	
			3.3	3.2	16 FT. LEFT			

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2500 Division No. ____
Date ____ Date ____ Survey of Beach Erosion County Beach
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by MYERS & Notes TREIER Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 3823 PG. 25

F. B. 2823 Pg. 26 | Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

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

76-L-298 CE 307 5-66

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

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

STATION	B. S.	H. I.	F. S.	ELEV.
				202+00 (100' [illegible])

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

PLEASE RETURN TO

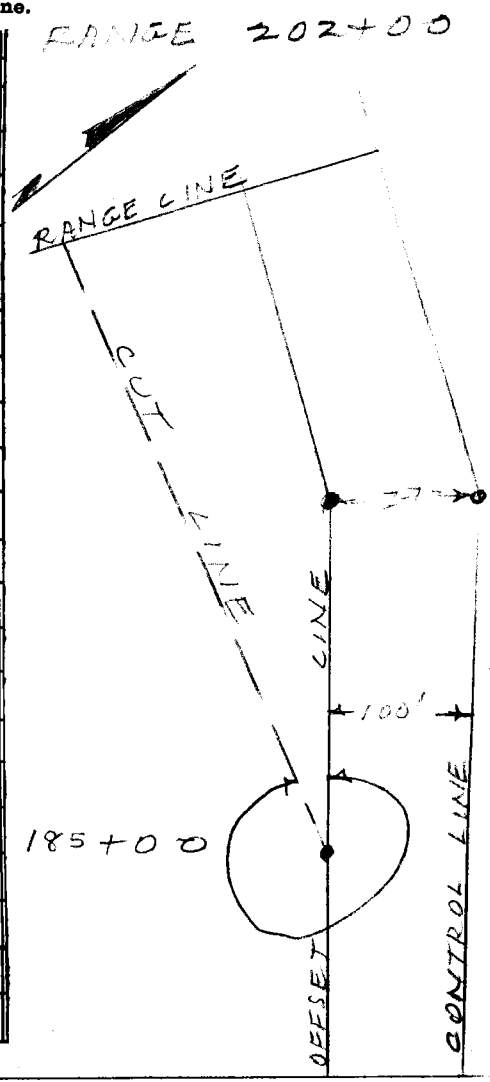
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	2-7	7:43	1	295	00			
			2	296	13			
			3	297	32			
			4	298	47			
			5	299	37			
			6	300	44			
			7	301	59			
			8	302	56			
			9	304	01			
			10	305	22			
			11	306	15			
			12	307	45			
			13	308	37			
			14	309	42			
			15	310	59			
			16	312	01			
			17	313	12			
			18	314	25			
			19	315	30			
			20	316	42			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 2822 Pg. 27

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes WAP Date 4/6/70

No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 70

76L298 307 Cdb 12-62

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2823 Pg. 28 Job No. 830002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes W.A.P. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date Date No.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185400	Z-7		21	317	44			
			22	318	53			
			23	319	59			
			24	320	42			
			25	321	30			
			26	322	10			
			27	323	17			
			28	324	25			
			29	325	50			
			30	326	47			
			31	327	39			
			32	328	21			
			33	329	20			
			34	330	06			
			35	330	59			
			36	331	29			
			37	332	48			
			38	333	13			
			39	334	32			
			40	335	37			

RANGE 202+00
CONTINUED

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
185+00	2-7		41	336	50			
			42	337	45			
			43	338	27			
			44	338	55			
			45	339	59			
		7:49	46	340	45			

RANGE 202+00
CONTINUED

Profile Notes Red. Plotted Job No. Division No. F. B. 2873 Pg. 29

No. Date Date Survey of ZUMA BEACH

X-Sec. Notes Chkd. Checked Survey by RICHARD Notes MAP Date 7-14-70

No. Date Date Map No. Indexed M. E. OTT Date JUL 23 '70

F. B. 2823 PG. 30

Job No. 0300,02 Division No. 11 Notes Red. ______ Plotted ______ Profile

Survey of ZUMA BEACH ______ Date ______ Date ______ No. ______

Survey by RICHARDS Notes W.A.R. ______ Notes Chkd. ______ Checked ______ X-Sec.

Indexed H. E. OTT Date ______ Date ______ Date ______ No. ______

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	204+00 (100' offset To Left)	
202+00				5 14	100' Lt. 1"x2" Stk. From last leg.	
T.B.M. #14				12 86	T.B.M. #14 El. = 12.89 F.B. 3790-153	
204+00				9 26	100' Lt. 1"x2" Stk.	
				12 4		10' Rt. Top Bk
				11 9		55' Rt. Bot. Bk
				13 4		67' Rt. Top Bk
				15 2		110' Rt. Bot. Bank
		7 0		4 60	24' Lt. M.H.W.	
	2 28	6 97		4 69	24' Lt. 1"x2" Stk. T.P.	
					⊼ OCCUPY 200+00	SIGHT AHEAD (ON OFFSET)
			3 6	3 4	37 FT	
			4 0	3 0	#1 8° 20'	
			6 4	0 6	2 13 18	
			7 6	-0 6	3 16° 07	SCAT. ROCKS
			8 1	-1 1	4 17 58	
			8 9	-1 9	5 24 20	
			11 8	-4 8	6 30 26	
			17 2	-10 2	7 37 50	
			15 6	-8 6	8 (IN) 36 06	
			15 2	-8 2	9 (IN) 34 21	
			14 5	-7 5	10 (IN) 28° 44	

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. 3300 Division No. 11
Date ____ Date ____ Survey of Beach Erosion (Sunset Beach)
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by MYERS & Notes DREIER Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2723 Pg. 31

F. B. 2823 PG. 32 | Job No. 0300 02 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

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

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.
				204+00 (100' OFFSET TO LEFT)

DATUM
~~MEAN LOWER LOW WATER~~

76L298 307 Cdb 12-62

PLEASE RETURN TO

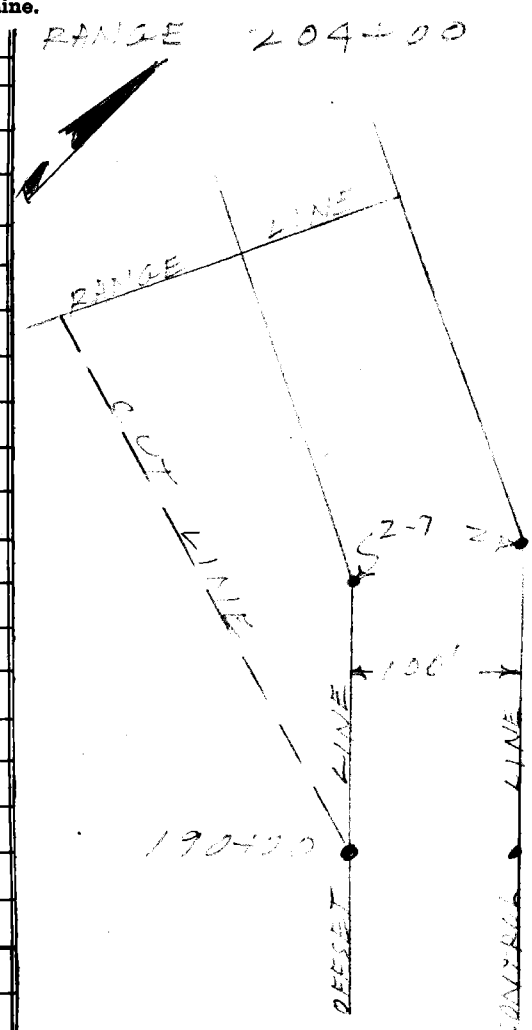
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
190+00	2-7	8:08	1	288	25			
			2	289	31			
			3	290	05			
			4	290	45			
			5	291	41			
			6	292	36			
			7	293	30			
			8	294	46			
			9	295	48			
			10	296	44			
			11	297	55			
			12	298	52			
			13	300	07			
			14	301	15			
			15	302	15			
			16	303	38			
			17	304	51			
			18	306	12			
			19	307	29			
			20	308	13			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030902 Division No. 11 F.B. 2823 Pg. 33

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes W.A.R. Date 7/6/70

Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date 11 23 70

76L298 307 Cdb 12-62

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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.

RANGE 204+00
CONTINUED

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
190+00	Z-7		21	309	43			
			22	310	41			
			23	312	01			
			24	313	20			
			25	314	16			
			26	315	20			
			27	315	58			
			28	316	43			
			29	318	05			
			30	318	55			
			31	319	52			
			32	320	46			
			33	321	09			
			34	322	32			
			35	323	10			
			36	324	18			
			37	324	43			
			38	326	35			
			39	327	27			
			40	328	32			

F.B. 2823 Pg. 34 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No. X-Sec.
Survey by RICHARDS Notes W.A.R. Notes Chkd. Checked
Indexed H. E. Ott Date Date Date No.

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
190+00	2-7		41	329	28			
			42	330	18			
			43	331	56			
			44	333	26			
		8:14	45	333	24			

RANGE 204+00
CONTINUED

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2823 Pg. 35
Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes WAR Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2823 PG. 36 | 030002 Job No. Division No. 11 Notes Red. Plotted Profile

Survey of ZUMA BEACH Date Date No.

Survey by RICHARDS Notes W. A. R. Notes Chkd. Checked X-Sec.

Indexed H. E. OTT Date Date Date No.

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No (Don't Punch)	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	Z-8 ~ 205+24.27 (100' Offset To Left 90° To Z-7 192+43.32)
204+00				9 26	100' Lt. 1"x2" Stk. From Last Pg.
192+43.32				11 68	100' Lt. 1"x2" Stk.
				11 3	18' Lt. Bot. Bank
				12 1	19' Lt. Top Brk.
	185	6 45		4 60	53' Lt. M.H.W. & 1"x2" Stk. T.P.
T.B.M. # 14				12 89	T.B.M. # 14 El. = 12.89 F.B. 3790-153
					↑ OCCUPY 200+00 (OFFSET SLY)
					UNSAFE OUT. SIGHT ON 202+00 (100 SLY)
			9 7	-3 3	1 27° 41' AMONG ROCKS
			8 2	-1 8	2 24 17 "
			7 9	-1 5	3 21 34 "
			7 0	-0 6	4 16 45 "
			6 0	0 4	5 13 47
			5 2	1 2	6 11 30
			4 5	1 9	7 9° 24'
			3 3	3 1	68 FT LEFT

DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 3873 Pg. 37
X-Sec. No. ____ Date ____ Date ____ Survey of Rock Hydrosion (Bump Rock)
Notes Chk'd. ____ Checked ____ Survey by MYERS & DREIER Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F. B. 2823 PG. 38 | Job No. 0300-02 | Division No. 11 | Notes Red ______ | Plotted ______ | Profile

Survey of Beach Erosion (Zuma Beach) | Date ______ | Date ______ | No. ______

Survey by ______ | Notes ______ | Notes Chk'd. ______ | Checked ______ | X-Sec.

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

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

Z-8-205+24.27 (LP 0+58' 10 Left 90° to Z-7 192+43.32)

Do not extend notes this side of this line.

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

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76-L-298 CE 307 5-66

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

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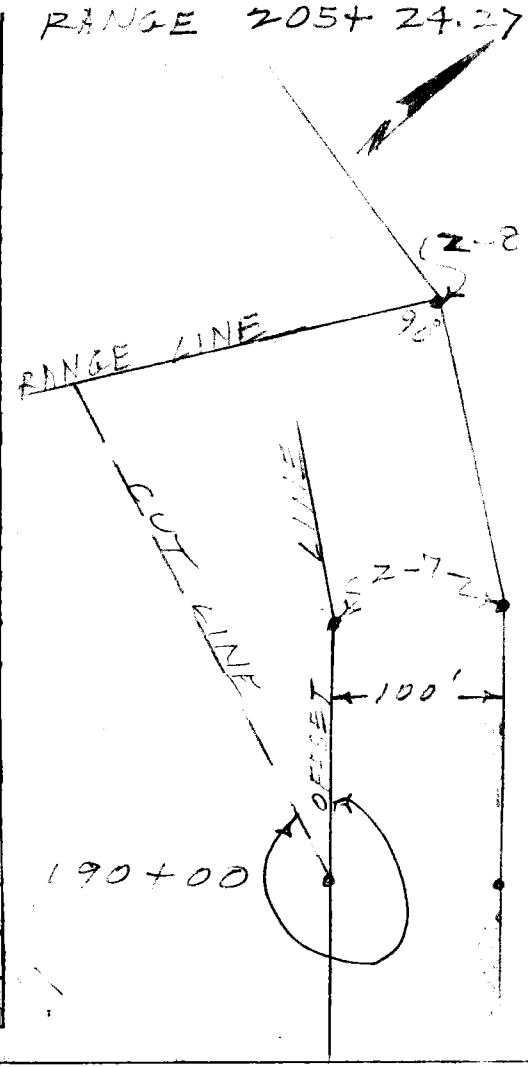
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH			DEG.	MIN.	
190+00	Z-7	8:23	1	289	45			
			2	290	21			
			3	291	10			
			4	292	02			
			5	293	04			
			6	294	22			
			7	295	22			
			8	296	23			
			9	297	14			
			10	298	05			
			11	299	10			
			12	300	08			
			13	301	04			
			14	302	01			
			15	303	11			
			16	304	21			
			17	305	43			
			18	306	41			
			19	307	49			
			20	309	08			



Profile
No. Notes Red. Date Plotted Date Job No. Division No. F.B. 2823 Pg. 39
X-Sec. Notes Chkd. Date Checked Date Survey of ZURICH BEDS Survey by PHILLIPS Notes W.A.P. Date 7/6/72
No. Date Map No. Indexed H. E. OTT Date JL 23 '70

76L298 307 Cdb 12-62

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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.

RANGE 205+24.27

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
190+00	Z-7		21	310	20			
			22	311	41			
			23	313	01			
			24	314	10			
			25	314	40			
			26	315	30			
			27	316	40			
			28	316	05			
			29	317	25			
			30	318	22			
			31	319	00			
			32	319	51			
			33	320	43			
			34	321	36			
			35	322	03			
			36	323	03			
			37	323	47			
			38	325	05			
			39	326	00			
			40	327	41			
			41	328	37			
		8:30	42	329	37			

KELP

F. B. 2823 PG. 40 Job No. 030002 Division No. 11 Notes Red. Plotted Profile
Survey of ZUMA BEACH Date Date No.
Survey by RICHARDS Notes W.A.R. Notes Chkd. Checked X-Sec.
Indexed H. E. OTT Date Date No.

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	Z-9 ~ 209+27.42 (90° TO Z-9A 211+79.34)
B.M. Z-9				32 54	B.M. Z-9 El.= 32.54. F.B. 3790-154
211+79.34				33 4	℄ Grd.
				23 7	39' Lt. Bot. Brk.
				24 5	70' Lt. Top Brk.
				25 39	79' Lt. T.P. Top Rock (Keel Mark)
				19 98	94' Lt. T.P. Top Rock (Keel Mark)
				16 4	98' Lt. Rock
				11 51	123' Lt. T.P. Top Rock (Keel Mark)
				8 70	138' Lt T.P. 1"x2" S+L. IN Rock Crev.
				15 95	T.P. Top Rock
T.B.M. #15				23 46	T.B.M. #15 El.= 23.42 F.B. 3790-154
					⊼ OCCUPY 202+00 (100 OFFSET) SIGHT ON 204+00 100' OFFSET
	041	9 11		8 70	
			40	51	140 FT LEFT BEGIN ROCK SHELF
			42	49	1 35° 56' " "
			130	39	2 36 17 {ON SAND TO E. OF ROCKS ABOUT 30 FT. SHOREWARD OF END OF VISIBLE ROCKS
T.P.	195	5 06	3 11	6 00	T.P.
			173	-122	3 (OUT) 43° 10'
		ESTIM.	24±	-19±	4 (OUT) 44° 29'
			174	-123	5 (IN) 42° 00' BOTTOM VERY IRREGULAR
		ESTIM.	25	-20±	6 (IN) 40° 50'

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 2500 Division No. ____
No. ____ Date ____ Date ____ Survey of Beach Erosion (Zuma Beach)
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS & PREIER Notes ____ Date 4/6/30
No. ____ Date ____ Date ____ Map No. ____ Indexed H. E. OTT Date JUL 23 '70

F.B. 3773 Pg. 41

F. B. 2823 Pg. 42 Job No. 0300 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Beach Erosion (Zuma Beach) Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed H. E. OD Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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403 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.
				Z-9~209+27.42 (90° TO Z-9A 211+79.34)

DATUM
MEAN LOWER LOW WATER

76L298 307 Cdb 12-62

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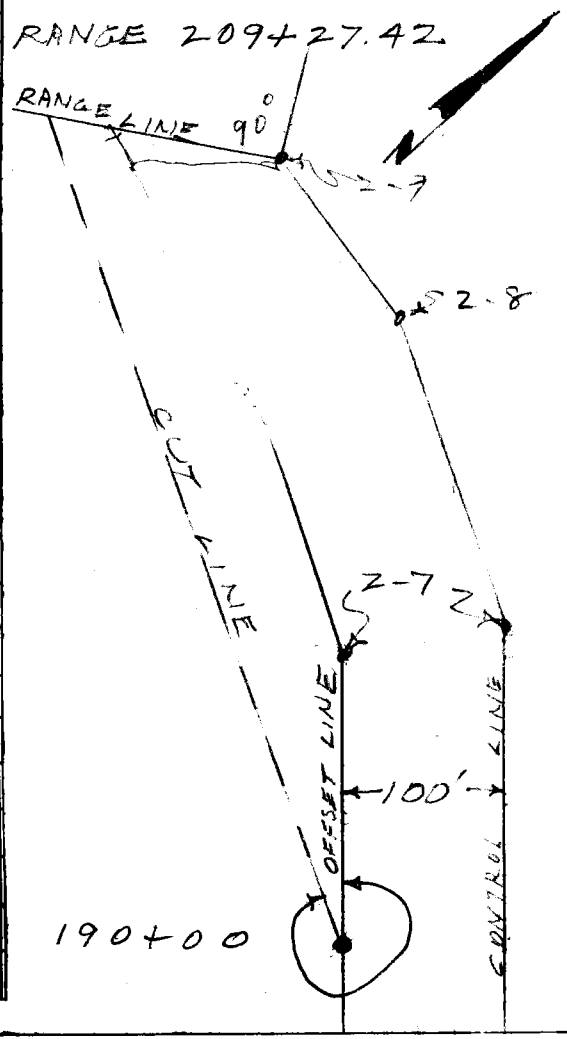
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH			DEG.	MIN.	
190+00	2-7	9:43	1	301	53			
			2	302	32			
			3	303	21			
			4	304	23			
			5	305	34			
			6	306	37			
			7	307	30			
			8	308	22			
			9	308	47			
			10	309	04			
			11	309	45			
			12	310	25			
			13	311	05			
			14	311	58			
			15	312	59			
			16	313	46			
			17	314	38			
			18	315	13			
			19	315	49			
			20	316	26			



Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F. B. 2323-3 Pg. 43
Date ____ Date ____ Survey of ZUMA BEACH
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes W.A.R. Date 7/6/70
Date ____ Date ____ Map No. ____ Indexed M. E. OTT Date Jul 23 '70

76L298 307 Cdb 12-62

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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.

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
190+00	Z-7		21	317	22			
			22	317	53			
			23	318	42			
			24	319	10			
			25	320	09			
			26	320	52			
			27	321	50			
			28	322	44			
			29	323	36			
			30	324	37			
			31	325	59			
			32	326	49			
			33	327	28			
			34	328	30			
		8:53	35	329	36			

RANGE 209+27.42
CONTINUED

END OF THIS JOB!

F. B. 2823 Pg. 44 Job No. 030002 Division No. 11 Notes Red. Plotted
Survey of ZUMA BEACH Date Date
Survey by RICHARDS Notes W.A.P. Notes Chkd. Checked
Indexed H.E.O.D. Date Date
Profile No. X-Sec. No.

Notes Ck'd by	Survey of HYDRO-SURVEY
Map No.	JN 0300.02 Tape — Std — °F
Office Work	Surveyed by W. A. RICHARDS
Checked	Notes W. A. R. Date 5-72
Date	Indexed L. M. PALMERI JUN 5 '72

F. B. 2823 PG. 45

J. N. 0300.02

HYDROGRAPHIC SURVEYS

REDONDO BEACH

FROM RANGE 284 + 65 S.
TO " 428 + 19 ", INC.

VERTICAL DATUM = ~~M.L.L.W.~~
TIME REFERENCE = PACIFIC STANDARD TIME

CONTROL SURVEYS REF.: F.B. 2100
" " " " 930
NEW " " " " 2316

RICHARDS BAZEN
LEGAULT BUSTRUM
LIEBER STROUD
TURRILL

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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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F. B. 2823 PG. 46

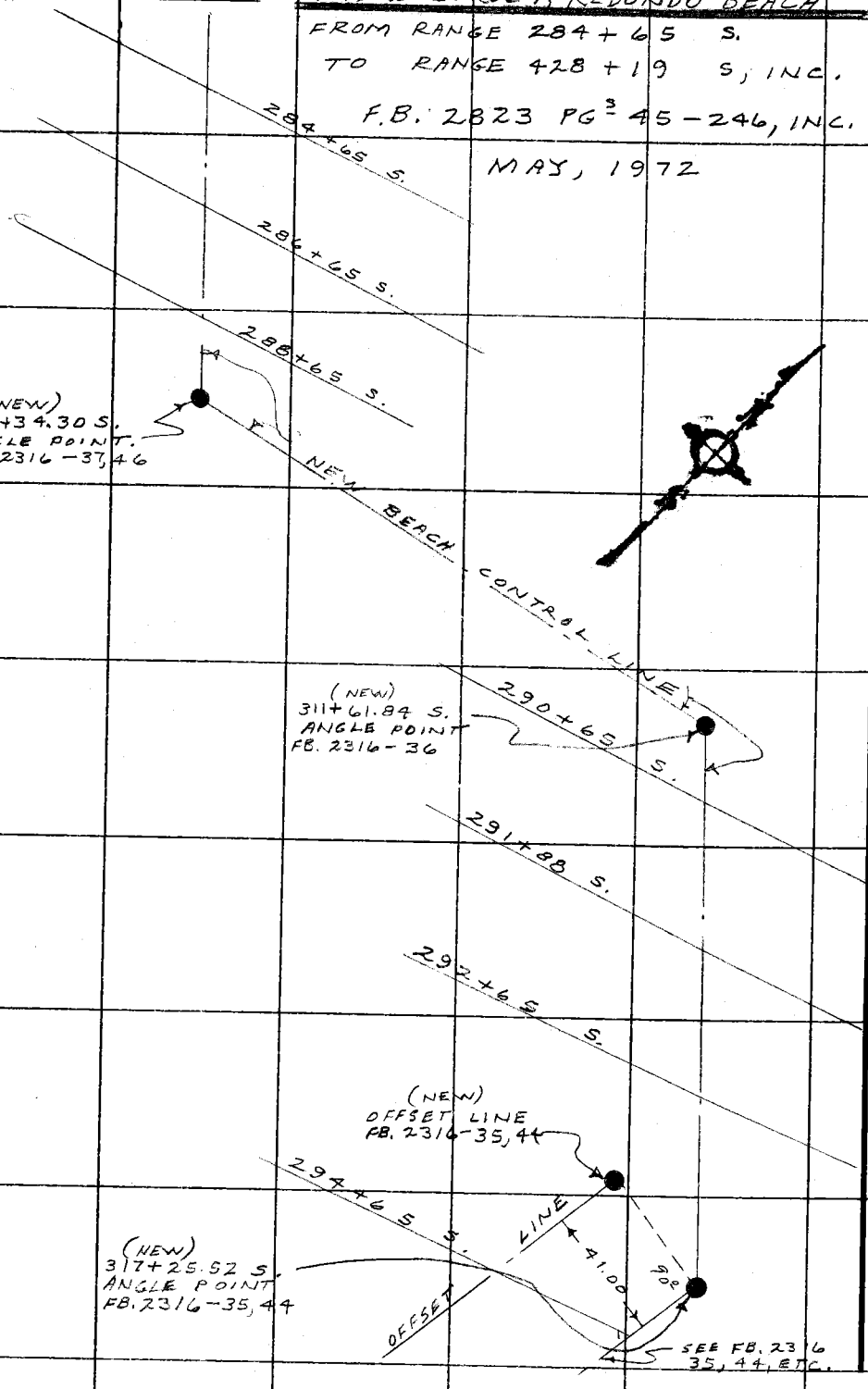
HYDRO-SURVEY, REDONDO BEACH

FROM RANGE 284+65 S.

TO RANGE 428+19 S, INC.

F.B. 2823 PGS 45-246, INC.

MAY, 1972



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DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76S420A - CE 353A - Cdb 9-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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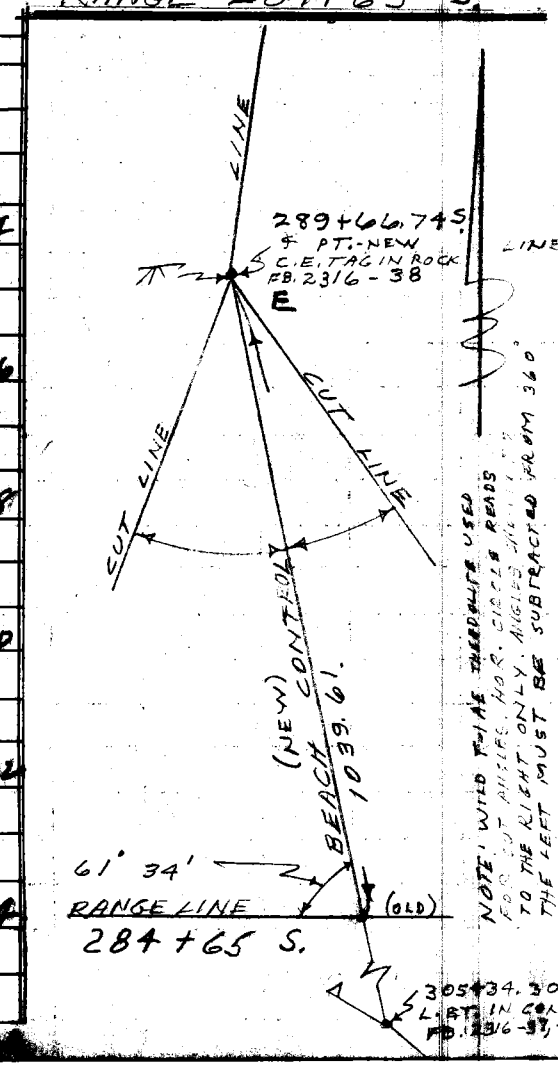
Do not extend notes this side of this line. RANGE 284+65 S.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Min.	For Office Use Only Range Deg.	Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
289+66.74S * PT.	305+34.30S * PT.	7:03	1	87	17			
			2	86	27			
			3	84	26			2846514
			4	83	40			
			5	81	08			
			6	80	12			2846516
			7	79	18			
			8	77	31			
			9	75	26			2846518
			10	73	42			
			11	71	38			
			12	69	22			2846520
			13	67	35			
			14	65	26			
			15	60	07			2846522
			16	56	41			
			17	56	36			
			18	53	40			2846524
			19	50	48			
			20	47	34			



Profile No. ____ Notes Red. ____ Plotted ____ Division No. 11 Sheet No. 83000 Z
X-Sec. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
Notes Chkd. ____ Checked ____ Survey by RIEUNEDS Notes R.T. Date F-18-72
Date ____ Date ____ Map No. ____ Index T.M. PALMER Page 5-70 Page 47

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RANGE 284+65 S.
(CONTINUED)

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74	305+34.30		21	~~44~~	~~34~~			
			22	40	36			
			23	37	55			
			24	34	12			2846528
			25	31	14			
			26	28	10			
			27	25	36			2846530
			28	23	00			
			29	19	56			
			30	16	48			2846534
			31	14	34			
			32	11	50			
			33	09	04			2846536
		7:09	34	~~06~~	~~45~~			
INSIDE HARBOR		7:15	1	~~356~~	~~47~~	-03	-13	
			2	~~354~~	~~54~~	-05	-06	
			3	~~352~~	~~22~~	-07	-38	2846554
			4	~~350~~	~~52~~	-09	-08	
			5	~~349~~	~~16~~	-10	-44	
			6	~~347~~	~~46~~	-12	-14	2846556

~~Don't Punch~~

F. B. Pg. 282348
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed T. M. PALMER Date Date Date No.

76S420A - CE 353A - Cdb 9-62

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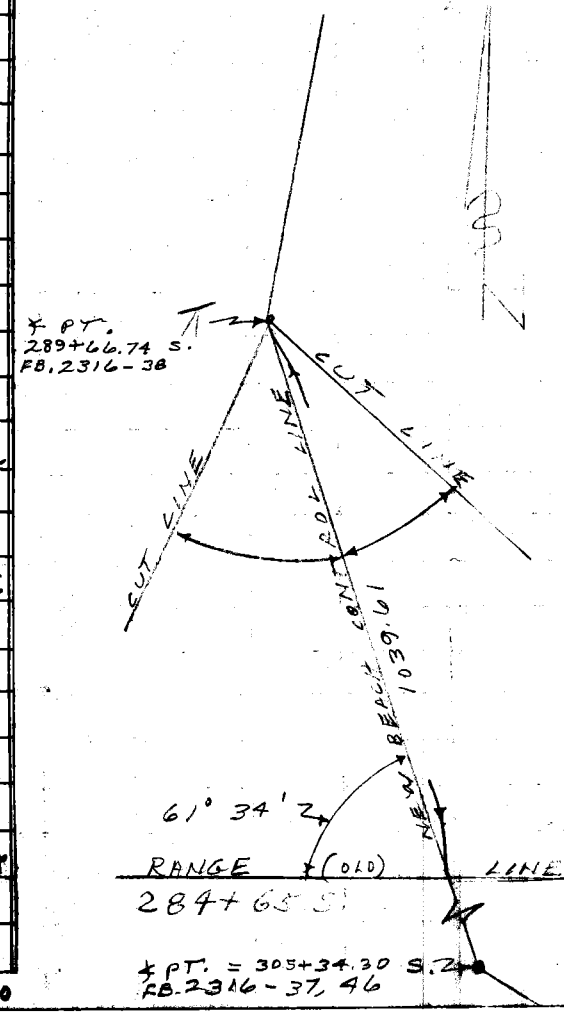
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S.	305+34.30 S.		7	~~345~~	~~58~~	-14	-02	
			8	~~345~~	~~17~~	-14	-43	
			9	~~343~~	~~30~~	-16	-30	2846558
			10	~~341~~	~~45~~	-18	-15	
			11	~~340~~	~~47~~	-19	-13	
			12	~~339~~	~~00~~	-21	-00	2846560
			13	~~339~~	~~15~~	-20	-45	
			14	~~338~~	~~12~~	-21	-48	
			15	~~336~~	~~57~~	-23	-03	2846562
			16	~~335~~	~~48~~	-24	-12	
			17	~~334~~	~~46~~	-25	-14	
			18	~~333~~	~~50~~	-26	-10	2846564
			19	~~333~~	~~00~~	-27	-00	
			20	~~332~~	~~14~~	-27	-46	
			21	~~331~~	~~31~~	-28	-29	2846566
		7:18	22	~~330~~	~~56~~	-29	-04	
						00	00	
						00	00	2846568
						00	00	
						00	00	
						00	00	2846570

RANGE 284+65 S. (CONT)



Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 11 F.B. 2823 PG. 49
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R T Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date JAN 5 '73

F. B. 2823 PG. 50 | Job No. 2300.03 Division No. 11 | Notes Red. ______ | Plotted ______ | Profile

Survey of HYDRO - SURVEY ______ | Date ______ | Date ______ | No. ______

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

Indexed ______ | Date ______ | Date ______ | Date ______ | No. ______

INST. AT (DON'T PUNCH)	SIGHT ON (DON'T PUNCH)	TIME (DON'T PUNCH)	ANGLE No (DON'T PUNCH)	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD No.

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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765420A - CE 353A - Cdb 9-62

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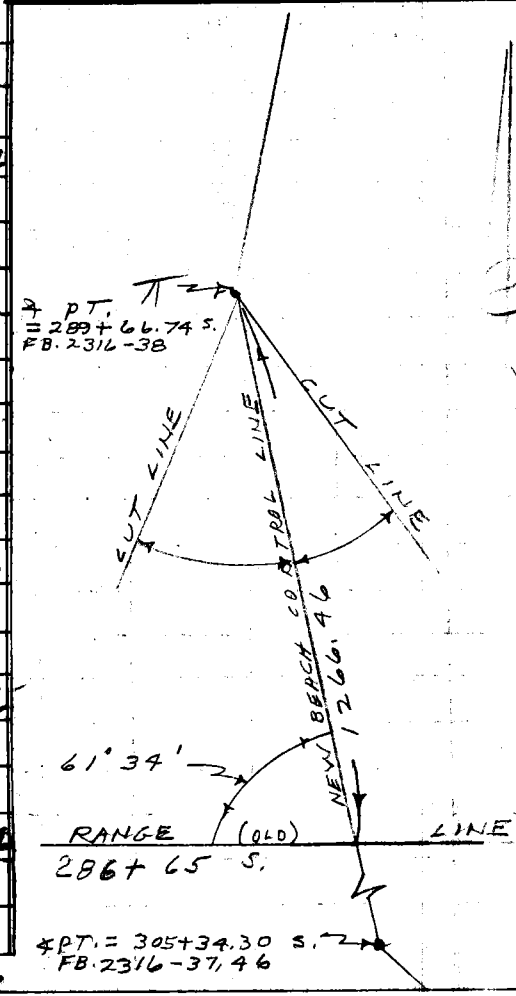
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
289+66.74 S.	305+34.30 S.	7.44	1	84	44			
			2	83	28			
			3	81	50			2866514
			4	81	00			
			5	80	00			
			6	78	52			2866516
			7	77	28			
			8	75	55			
			9	74	22			2866518
			10	72	26			
			11	70	55			
			12	69	25			2866520
			13	67	54			
			14	65	55			
			15	64	06			2866522
			16	61	55			
			17	59	45			
			18	57	56			2866524
			19	55	32			
			20	53	55			
				51	40			2866526

RANGE 286+65 S.



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

F.B. 2323 Pg. 51

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

RANGE 286+65 S. (CON'T)

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S	305+34.30 S,		21	~~51~~	~~40~~			
			22	48	12			
			23	45	01			
			24	43	02			2866528
			25	40	21			
			26	38	48			
			27	36	26			2866530
			28	34	20			
			29	32	05			
			30	29	23			2866546
			31	25	30			
			32	23	38			
			33	20	45			2866548
			34	17	48			
			35	15	32			
			36	13	45			2866550
			37	11	56			
			38	07	56			
			39	06	54			2866552
		7 49	40	05	56			
				00 00	00 00			2866554

Don't Punch

F. B. 2823 Pg. 52

Job No. 5300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

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

Indexed I. M. PALMERI Date Date Date No.

76S420A - CE 353A - Cdb 9-62

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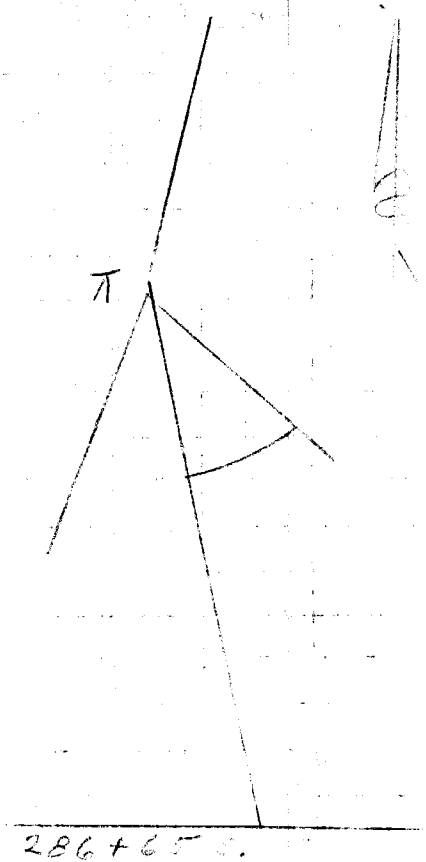
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S	305+34.30 S,	7:56	1	356	20	-03	-40	
INSIDE BREAKWATER			2	354	37	-05	-23	
			3	353	00	-07	-00	2866570
			4	351	20	-08	-40	
			5	350	16	-09	-44	
			6	348	40	-11	-20	2866572
			7	346	55	-13	-05	
			8	345	45	-14	-15	
			9	344	55	-15	-25	2866574
			10	343	54	-16	-06	
			11	342	00	-18	-00	
			12	341	55	-18	-05	2866576
			13	341	26	-18	-34	
			14	340	39	-19	-21	
			15	339	30	-20	-30	2866578
			16	338	34	-21	-26	
			17	337	50	-22	-10	
			18	337	35	-22	-25	2866580
			19	337	15	-22	-45	
			20	326	26	-23	-34	
						-23	-36	2866582

RANGE 286+65.S. (CON'T)



SEE PG. 51 FOR DETAILS

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F. B. 2823 Pg. 53
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date 5 '72

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S.	305+34.30 S.		21	~~336~~	~~24~~			
			22	336	26	-23	-40	
			23	335	52	-24	-08	
			24	335	28	-24	-32	2866584
			25	334	38	-25	-22	
			26	333	46	-26	-14	
		8:01	27	333	10	-26	-50	2866586
			28			00	00	
						00	00	
						00	00	2866588

RANGE 286+65 S. (CON'T)

SEE PG. 51 FOR SKETCH

F. B. 2823 PG. 54 Job No. 0300.02 Division No. 11 Notes Red. Plotted Date No. Profile

Survey of HYDRO-SURVEY Date X-Sec.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked Date No.

Indexed T. M. PALMERI Date

765420A - CE 353A - Cdb 9-62

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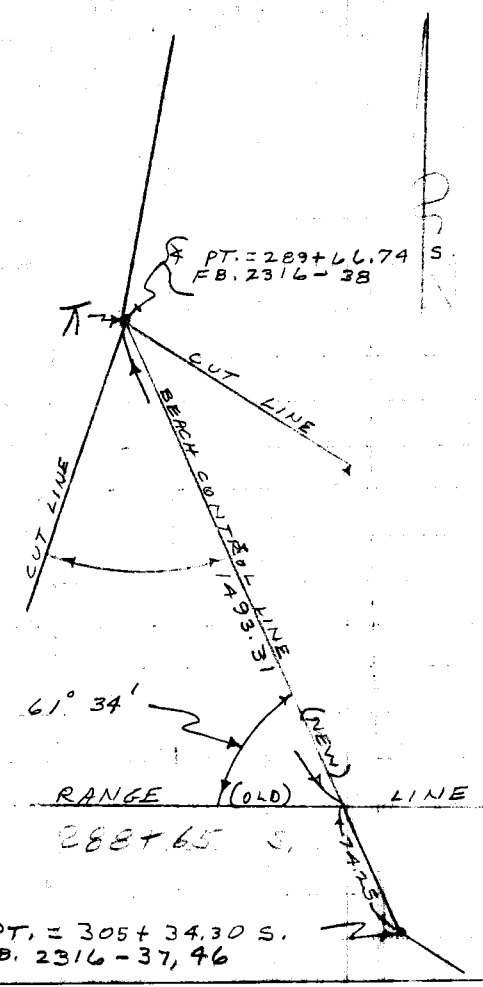
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S.	305+34.30 S.	8:16	1	74	11			
			2	72	19			
			3	70	25			2886514
			4	68	47			
			5	66	48			
			6	65	23			2886516
			7	63	18			
			8	61	15			
			9	59	04			2886518
			10	56	55			
			11	54	53			
			12	52	46			2886520
			13	50	26			
			14	48	06			
			15	45	10			2886522
			16	42	46			
			17	40	04			
			18	37	30			2886524
			19	34	26			
			20	32	46			
				30	22			2886526

RANGE 288+65 S.



Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2823 Pg. 55
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R. T. Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMER Date 5-12

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Do not extend notes this side of this line.

INST. AT (DON'T PUNCH)	SIGHT ON (DON'T PUNCH)	TIME (DON'T PUNCH)	ANGLE Nº (DON'T PUNCH)	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
289+66.74 S1	305+34.30 S.		21	~~30~~	~~22~~			
			22	27	01			
			23	25	42			
			24	23	00			2886528
			25	20	55			
			26	19	01			
			27	17	01			2886530
			28	14	16			
			29	12	20			
			30	10	34			2886532
			31	08	40			
			32	06	56			
			33	04	55			2886534
			34	04	03			
		8.21	35	02	01			
		8126		00	00			2886536
INSIDE BREAKWATER			1	~~356~~	~~12~~	-03	-48	
			2	~~355~~	~~55~~	-04	-05	
			3	~~355~~	~~12~~	-04	-48	2886552
			4	~~353~~	~~52~~	-06	-08	
			5	~~352~~	~~22~~	-07	-38	
						-08	-39	2886554

RANGE 288+65 S1 (CONT.)

SEE PG. 56 FOR SKETCH

~~Don't Punch~~

F. B. 2823 PG. 56
Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes Notes Chkd. Checked X-Sec.
Indexed T. M. PALMERI Date Date Date No.

765420A • CE 353A • Cdb 9-62

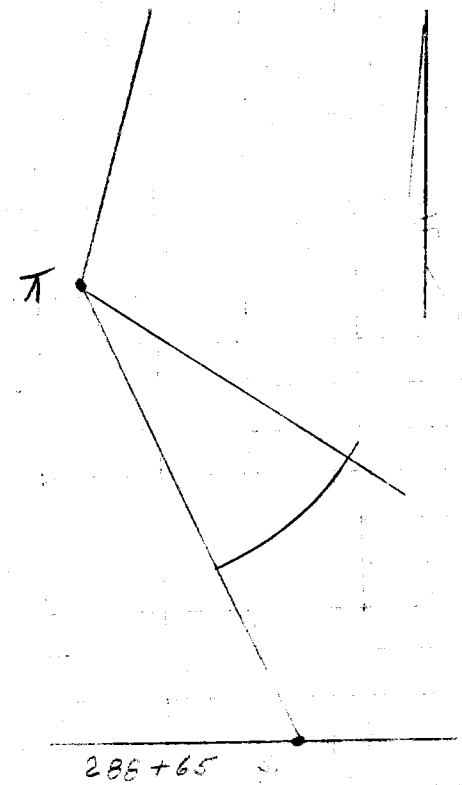
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	Range Line Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
			6	~~351~~	~~21~~			
INSIDE BREAKWATER			7	350	17	-09	-43	
			8	~~349~~	~~01~~	-10	-59	
			9	~~348~~	~~15~~	-11	-45	2886556
			10	~~347~~	~~30~~	-12	-30	
			11	~~346~~	~~26~~	-13	-34	
			12	~~345~~	~~55~~	-14	-05	2886558
			13	~~344~~	38	-15	-22	
			14	~~344~~	~~11~~	-15	-49	
			15	~~343~~	~~42~~	-16	-18	2886560
			16	~~342~~	~~58~~	-17	-02	
			17	~~342~~	36	-17	-24	
			18	~~341~~	~~55~~	-18	-25	2886562
			19	~~341~~	~~02~~	-18	-58	
			20	~~340~~	~~21~~	-19	-39	
			21	~~339~~	~~58~~	-20	-02	2886564
			22	~~339~~	~~26~~	-20	-34	
			23	~~339~~	~~11~~	-20	-49	
		8:31	24	~~338~~	~~24~~	-21	-36	2886566
						00	00	
						00	00	
						00	00	2886568

RANGE 288+65 S. (CON'T)



SEE PG. 55 FOR DETAILS

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes RT Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Index M. PALMER Date JUN 5 '72

F. B. 2823 Pg. 57

F. B. 2823 Pg. 58

Job No. 030002 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

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.

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	312+75.80S (NEW LINE) = 290+65S (OLD LINE)		
312+75.80S = 290+65S (OLD LINE)					DATUM - M.L.L.W.		
				13 29	L & C.E. TAG. F.B. 2316-45		
				13 6	5° LT. TOP OF BRK. WTR.		
	1.95	6 60		4 65	T.P. TOP OF ROCK		
RUNNING 312+75.80S (NEW LINE) = 290+65S (OLD LINE) SITE ON 312+75.80S (NEW LINE)							
TRANSIT @ 317+25.52S (NEW LINE) L & C.E. TAG F.B. 2316-44							
ANGLES AS NOTED.							
					ANGLE		
		6 60	5 9	0 7	03°-50' R	BOT OF BRK WTR.	364'
			9 6	-3 0	03°-14' R	SAND	370'
			11 6	-5 0	05°-30' R	(HEAVY SURF POUNDING ON ROCKS)	349'
	(ESTIMATED)		18 6	-12 0	22°-48' R		218'
			14 6	-8 0	26°-46' R		193'
				13 6	17° RT. TOP OF BRK WTR.		258'
	0 3	7.7		7.4	T.P. TOP OF ROCK		
ELEV. OF WATER = +1.0 WTR 14' DEEP = -13.0 BOT.				-13 0	06°-52' L.	ROCKS	483'
				-17 5	10°-50' L.		541'
ELEV. OF WATER = +1.0 WTR 18.5 DEEP = -17.5 BOT.							

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY REDONDO
X-Sec. Notes Chk'd. ____ Checked ____ Survey by MYERS Notes K. M. Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date [illegible] 5 '72

F.B. 2823 Pg. 59

F. B. 2823 PG. 60

Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY - REDONDO BEACH Date _____ Date _____ No. _____

Survey by RICHARDS Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

76-L-298 CE 307 5-66

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403 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.

76S420A - CE 353A - Cdb 9-62

PLEASE RETURN TO
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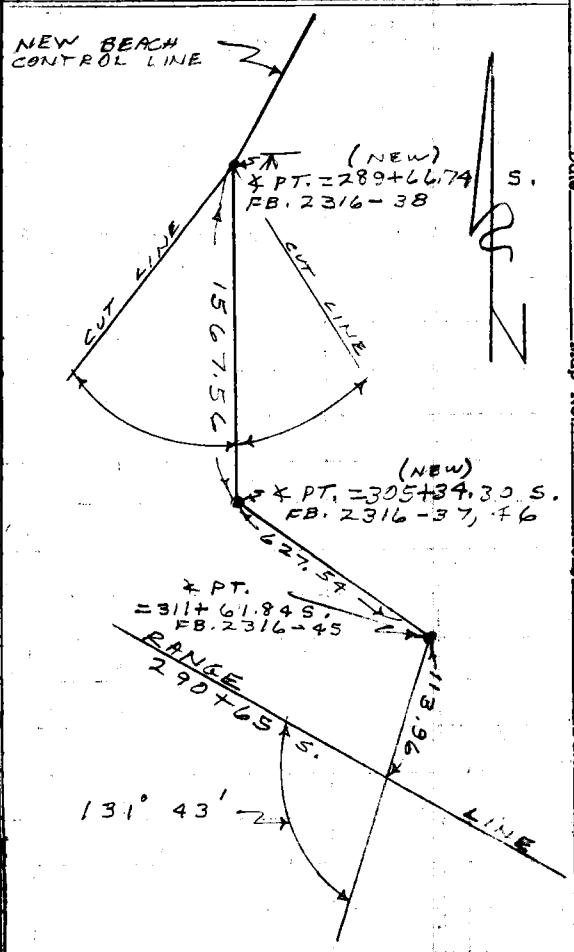
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Deg.	Range Min.	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
289+66.74 S.	305+34.30 S.	9:06	1	59	30			
			2	57	15			
			3	54	55			2906518
			4	53	35			
			5	51	35			
			6	49	26			2906520
			7	46	15			
			8	44	30			
			9	41	47			2906522
			10	39	15			
			11	36	35			
			12	35	07			2906524
			13	31	55			
			14	29	45			
			15	26	30			2906526
			16	23	38			
			17	20	46			
			18	18	40			2906528
			19	15	45			
			20	14	40			
				12	50			2906530

RANGE 290+65 S.



Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F. B. 2316 Pg. 61
X-Sec. No. ____ Date ____ Date ____ Survey of HYLAND - SURVEY
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by [illegible] Notes R. T. Date 5-18-72
Map No. ____ Date ____ Index J. M. PALMERI Date ____

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.

INST. AT DON'T PUNCH	SIGHT ON DON'T PUNCH	TIME DON'T PUNCH	ANGLE Nº DON'T PUNCH	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
289+66.74 S	305+34.30 S,		21	~~12~~	~~50~~			
			22	10	50			
			23	08	55			
			24	06	50			2906532
			25	05	45			
			26	03	45			
			27	02	45			2906534
			28	~~01~~	~~38~~			
			29	~~00~~	~~50~~			
			30	~~359~~	~~38~~	-00	-22	
			31	~~358~~	~~35~~	-01	-25	
			32	~~357~~	~~36~~	-02	-24	2906556
			33	~~356~~	~~22~~	-03	-38	
			34	~~355~~	30	-04	-30	
			35	~~354~~	~~45~~	-05	-15	2906558
			36	~~353~~	40	-06	-20	
			37	~~353~~	04	-06	-56	
			38	352	32	-07	-28	2906560
			39	351	17	-08	-43	
			40	350	28	-09	-32	
						-10	-30	2906562

RANGE 290+65 S. (CON'T)

SEE PG 61 FOR SKETCH

~~Don't Punch~~

F. B. 2823 Pg. 62
Survey of HYDRO-SURVEY Job No. 2300.02 Division No. 11 Notes Red. Plotted Date No. Profile
Survey by Notes Date Notes Chkd. Checked Date No. X-Sec.
Indexed I. M. PALMERI Date Date

76S420A - CE 353A - Cdb 9-62

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

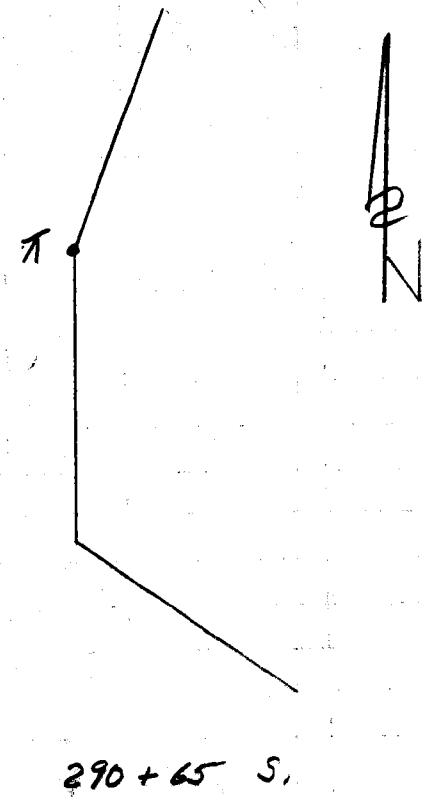
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
289+66.74 S	305+34.30 S.		41	~~349~~	~~30~~			
			42	~~348~~	~~55~~	-11	-05	
			43	~~348~~	~~22~~	-11	-38	
			44	~~347~~	~~20~~	-12	-40	2906564
			45	~~346~~	~~40~~	-13	-20	
		9:13	46	~~346~~	~~30~~	-13	-30	
INSIDE BREAKWATER		9:20	1	~~343~~	~~18~~	-16	-42	2906566
			2	~~342~~	~~55~~	-17	-05	
			3	~~342~~	~~30~~	-17	-30	
			4	~~341~~	~~50~~	-18	-10	2906568
			5	~~341~~	~~35~~	-18	-25	
		9:22	6	~~340~~	~~51~~	-19	-09	
						00	00	2906570
						00	00	
						00	00	
						00	00	2906572

RANGE 290+65 S. (CON.)

SEE PG. 61 FOR DETAILED SKETCH



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 63
No. ____ Date ____ Date ____ Survey of HYDRO - SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMER Date 5 77

F. B. 2823 Pg. 64 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO - SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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.

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line. (SHOAL)

STATION	B. S.	H. I.	F. S.	ELEV.	314+35.79S (NEW LINE) = 291+88S (OLD LINE)		
TRANSIT @ 312+75.80S (NEW LINE) = 290+65S (OLD LINE) SITE ON							
317+25.52S (NEW LINE), RUNNING 314+35.79S (NEW LINE) = 291+88S (OLD LINE)							
ANGLES LEFT (L&C.E. TAG F.B. 2316-44 @ STATION)							
				13.5	TOP OF BRK WTR. 3° LEFT		
	5 25	18 74		13 49	T.P. @ STATION		
	2 07	3 93	16 88	1.86	T.P TOP OF ROCK		
					ANGLE		
			3.7	0.2	05°45'	L	BOT OF BRK. WTR.
			5.6	-1.7	12°52'	L	SHOAL
			5.5	-1.6	19°37'	L	"
			4.4	-0.5	24°56'	L	"
			8.0	-4.1	26°38'	L	"
			15.6	-11.7	30°21'	L	CHANNEL
			16.1	-12 2	32°50'	L	"
	ESTIMATED →		18 0	-14 1	35°08'	L	"
			16.9	-13 0	35°44'	L	"

DATUM - M.L.L.W.

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2823 Pg. 65
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 66

Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY - REDONDO BEACH Date _____ Date _____ No. _____

Survey by MYERS Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	292+65 S.
292+65S. (OLD LINE) =				12 40	New line - F.B. 236-44
315+35.79 (NEW LINE)				9 8	41' R. - Top of rocks.
				14 5	21' L. - " " grain
				15 1	99' L. - " " "
				9 3	159' L. - " " rock.
				-2 8	217' L - sand at edge of rocks

TRANSIT @ 312+75.80S (NEW LINE) = 290+65S (OLD LINE) SITE ON 317+25.52S (NEW LINE) RUNNING 315+35.79S (NEW LINE) = 292+65S (OLD LINE) ANGLES AS NOTED

	1.1	6.1		5.0'	T.P. TOP OF ROCK
					ANGLE
			139	-7 8'	42°24' R OK (HEAVY SURF POUNDING ON ROCKS 355'
			165	-10 4'	51°00' R OK 385'
			99	-3 8'	20°21' R OK 277'

DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. 0300.03 Division No. 11 F.B. 2823 PG. 67
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed I. M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 68

Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY, REDONDO BEACH Date _____ Date _____ No. _____

Survey by RICHARDS Notes W.A.P. Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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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.

765420A - CE 353A - Cdb 9-62

PLEASE RETURN TO
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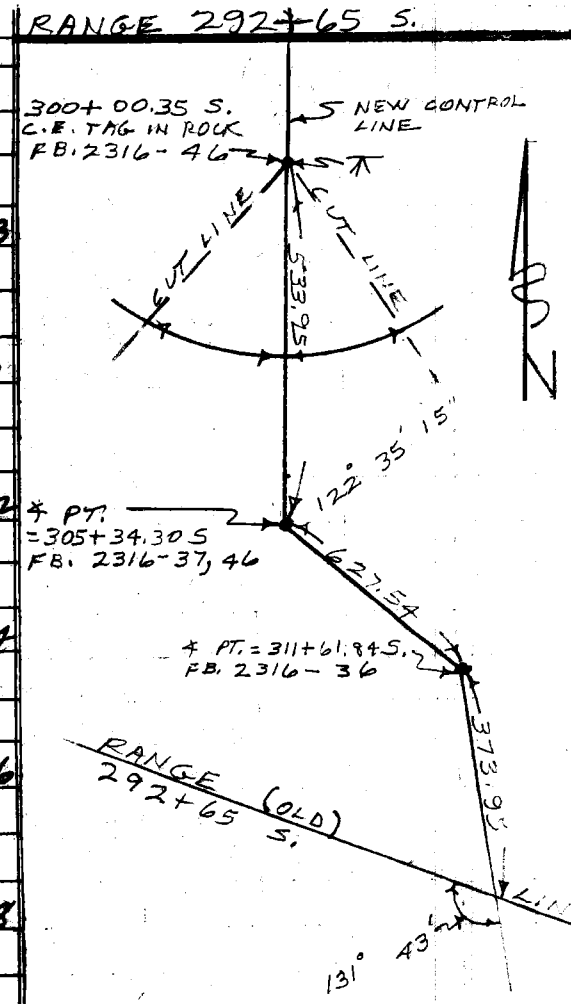
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range	Line	Card No
Don't Punch	Don't Punch	Don't Punch	Don't Punch			Deg.	Min.	
300+00.35 S.	305+34.30 S.	9:55	1	69	15			
			2	66	46			
			3	63	59			2926518
			4	60	55			
			5	58	22			
			6	56	01			2926520
			7	53	17			
			8	50	32			
			9	48	00			2926522
			10	46	01			
			11	43	38			
			12	41	22			2926524
			13	38	55			
			14	36	36			
			15	34	00			2926526
			16	30	38			
			17	27	42			
			18	24	45			2926528
			19	22	00			
			20	18	48			
				15	35			2926530



Profile Notes Red. ____ Plotted ____ Job No. 320.02 Division No. 11 F. B. 2823 Pg. 69
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R. T. Date 5-18-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMER Date JM 5-72

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. 2823 PG. 70 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile No.
Survey of HYDRO - SURVEY Date Date X-Sec. No.
Survey by RICHARDS Notes R.T. 5-18-72 Notes Chkd. Checked
Indexed T. M. PALMERI Date Date

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
300+00.35 S.	305+34.30 S.		21	~~15~~	~~35~~			
			22	13	02			
			23	11	02			
			24	08	35			2926532
			25	05	54			
			26	04	09			
			27	01	44			2926534
			28	~~358~~	~~04~~	-01	-56	
			29	~~356~~	~~12~~	-03	-48	
			30	~~354~~	~~19~~	-05	-41	2926554
			31	~~352~~	~~01~~	-07	-59	
			32	~~349~~	~~55~~	-10	-05	
			33	~~348~~	~~45~~	-11	-15	2926556
			34	~~346~~	~~17~~	-13	-43	
			35	~~343~~	~~17~~	-16	-43	
			36	~~341~~	~~02~~	-18	-58	2926558
			37	~~339~~	~~28~~	-20	-32	
		10:02	38	~~338~~	~~26~~	-21	-34	
						00	00	2926560
						00	00	
						00	00	
						00	00	2926562

RANGE 292+65 S. (CON'T)

SEE PG. 69 FOR SKETCH

~~Don't finish~~

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

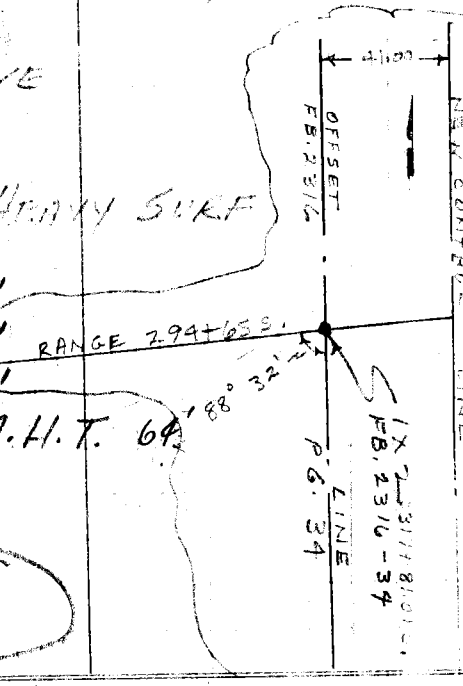
STATION	B. S.	H. I.	F. S.	ELEV.	294 + 65 S.
294+65S (OLD LINE) =				7.69	1X2, F.B. 2316-34
317+81.01S (NEW LINE)				10 3	23' L. Bot. of rocks
				20 8	44' L. top " "

TRANSIT @ 321+80.13S (NEW LINE) = 298+65S (OLD LINE) SITE ON 317+81.01S (NEW LINE) = 294+65S (OLD LINE) RUNNING 294+65S ANGLES TO LEFT

045	814		769	1X2 T.P. ABOVE	
265	700	379	435	1X2 TP.	
				ANGLE	
		6.1	0.9'	10°45'	L 116' HEAVY SURF
		10.0	-30'	21°58'	L 200'
		14 2	-7.2'	29°24'	L 262'
		14 5	-7 5'	29°56'	L 268'
ESTIMATED →		18 0	-11 0'	36°16'	L 324'
		240	460	03°21'	L OK M.H.T. 64'

DATUM - M.L.L.W.

NOTE: ALL INFORMATION ON THIS PAGE IS REFERENCED TO THE 41.00 OFFSET LINE



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Indexed T. M. PALMER Date ____
No. ____ Date ____ Date ____ Map No. ____ Date ____

F.B. 2823 PG. 71

F. B. 2823 Pg. 72 Job No. 030002 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of HYDRO-SURVEY, REDONDO BEACH Date _____ Date _____ No. _____

Survey by MYERS Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

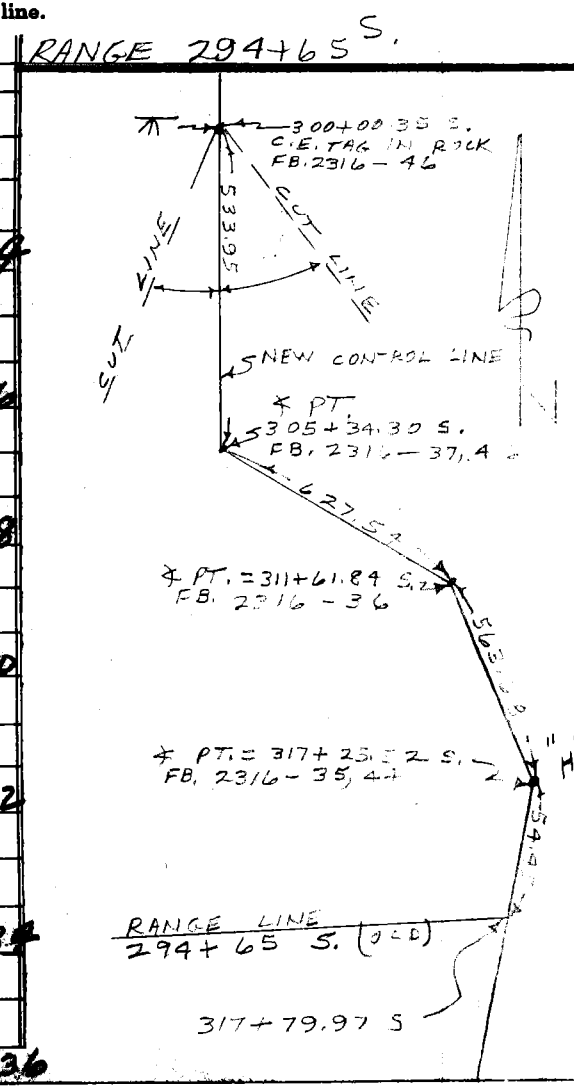
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
300+00.35 S	305+34.30 S.	10:22	1	91	22			
			2	90	15			
			3	89	05			2946524
			4	88	25			
			5	87	50			
			6	86	58			2946526
			7	8[illegible]	00			
			8	85	16			
			9	84	04			2946528
			10	83	02			
			11	81	46			
			12	80	00			2946530
			13	79	17			
			14	78	15			
			15	77	01			2946532
			16	75	29			
			17	74	03			
			18	72	18			2946534
			19	70	40			
			20	69	09			
			21	67	36			2946536



Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F.B. 2823 Pg. 73

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 5-18-72

No. Date Date Map No. Indexed M. PALMER Date JUN 5 72

76L298 307 Cdb 12-62

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.

RANGE 294 + 65 S. (CON'T)

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
300+00.35 S.	305+34.30 S.		21	~~67~~	~~36~~			
			22	65	33			
			23	62	44			
			24	60	29			2946538
			25	58	16			
			26	55	01			
			27	51	28			2946540
			28	48	44			
			29	45	23			
			30	42	49			2946542
			31	40	24			
			32	36	51			
			33	34	24			2946544
			34	31	04			
			35	27	43			
			36	24	43			2946546
			37	22	05			
			38	19	14			
			39	16	38			2946572
			~~40~~	~~13~~	~~34~~			

SEE PG. 73 FOR SKETCH

Profile No. ___ X-Sec. No. ___
Plotted ___ Date ___
Notes Red. ___ Date ___
Notes Chkd. ___ Date ___
Checked ___ Date ___
Division No. ___
Job No. 0300.02
Survey of HYDRO - SURVEY
Survey by RICHARDS Notes R.T.
Indexed T. M. PALMERI Date ___
F. B. 2823 Pg. 74

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

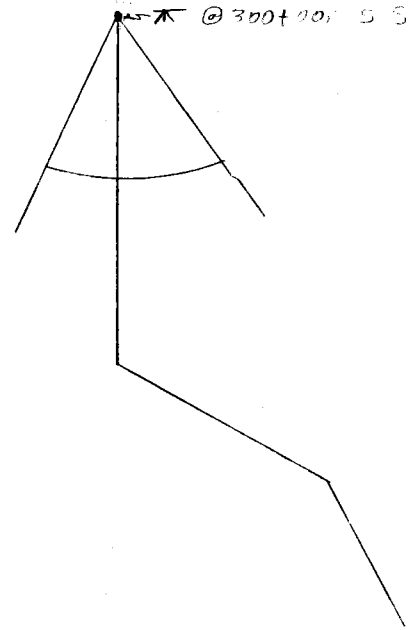
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	FOR OFFICE USE ONLY LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
300+00.35 S1	305+34.30 S1		40	13	34			
			41	10	32			
			42	07	48			2946574
			43	04	53			
			44	02	00			
			45	359	40	-00	-20	2946576
			46	357	09	-02	-51	
			47	355	18	-04	-42	[illegible]
			48	353	38	-06	-22	2946578
			49	351	43	-08	-17	
			50	350	27	-09	-33	[illegible]
			51	349	25	-10	-35	2946580
			52	347	55	-12	-05	
		10:32	53	346	30	-13	-30	[illegible]
						00	00	2946582
						00	00	
						00	00	[illegible]
						00	00	2946584

RANGE 294+65 S1 (CONT)



SEE PG. 73 FOR SKETCH DETAILS

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 03[illegible] Division No. 11 F. B. 2823 Pg. 75

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 3-18-72

Date ____ Date ____ Map No. ____ Indexed M. PALMER Date ____

F. B. 2823 Pg. 76 Job No. 2300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At Don't Punch	Sight On Don't Punch	Time Don't Punch	Angle No Don't Punch	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	For Office Use Only Range Line Min.	For Office Use Only Card No.

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 Cdb 12-62

76-L-298 CE 307 5-66

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

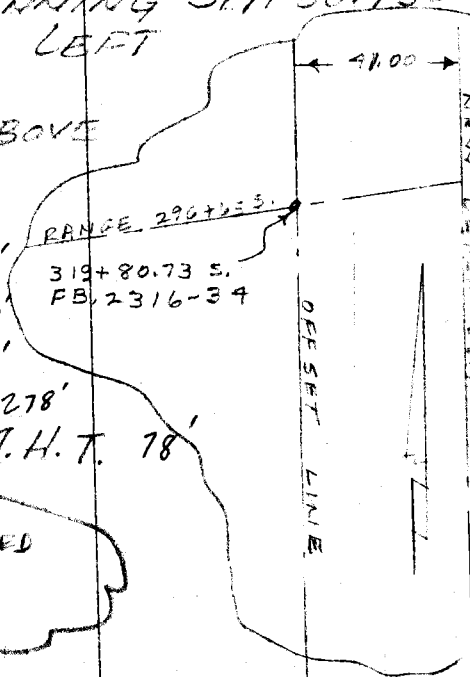
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	296 + 65 S.
296+65 S. (OLD LINE) =				10 36	1X2 F.B. 2316-34.
319+80.73S (NEW LINE				11 4	21' L. Bot. of rocks.
				20 4	44' L. top " " .

TRANSIT @ 321+80.13S (NEW LINE) = 298+65S (OLD LINE) SITE ON 317+81.01S (NEW LINE) = 294+65S (OLD LINE) RUNNING 319+80.73S (NEW LINE) = 296+65S (OLD LINE) ANGLES TO LEFT

0 75	11 11		10 36	1X2 T.P. ABOVE	
3 30	8 01	6 40	4 71	" " "	
				ANGLE	
		6.0	2.0	19°12'	L 110'
		8.0	0 0	29°45'	L 153'
		10 8	-2 8	42°00'	L 217'
		15 5	-7 5	50°53'	L 278'
		3 4	4 60	10°37'	L OK M.H.T. 78'



DATUM - M.L.L.W.

NOTE: ALL INFORMATION ON THIS PAGE IS REFERENCED TO THE 41.00 OFFSET LINE.

MR.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of Hydro Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMER Date JUN 5 ...

F.B. 2223 PG. 77

F. B. 2823 Pg. 79

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

BLANK.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

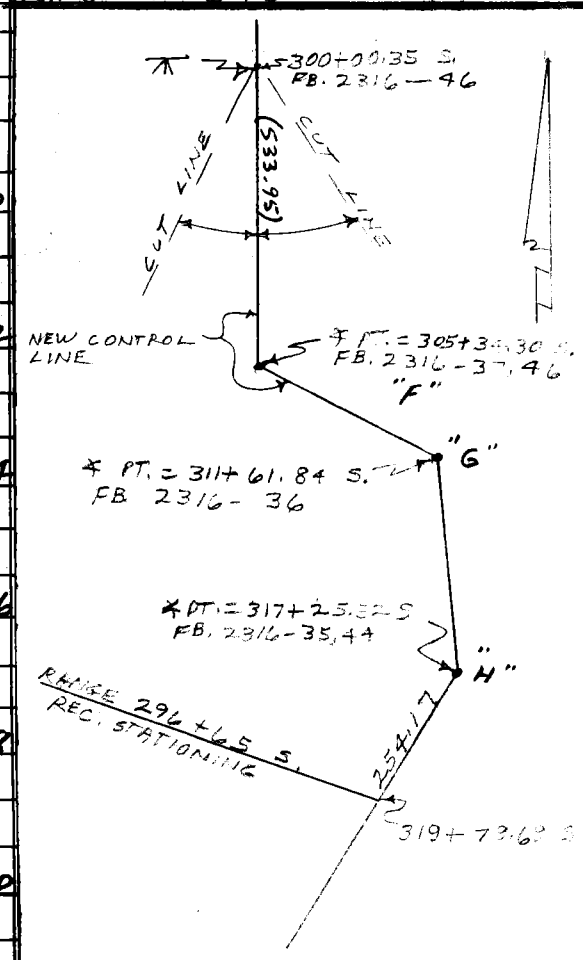
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
300+00.35 S.	305+34.30 S.	11:00	1	65	15			
			2	63	18			
			3	61	22			2966520
			4	60	31			
			5	59	06			
			6	57	28			2966522
			7	56	00			
			8	54	15			
			9	51	12			2966524
			10	49	35			
			11	48	03			
			12	46	06			2966526
			13	43	22			
			14	40	20			
			15	38	05			2966528
			16	35	06			
			17	32	31			
			18	30	35			2966530
			19	28	20			
			20	25	40			
				22	31			2966532

RANGE 296+65 S.



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 79

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.F. Date 5-18-72

No. Date Date Map No. Indexed I. M. PALMER Date JUN 5 '72

76L298 307 Cdb 12-62

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 No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No. 300.02 Notes R.T. Date

Survey of HYDRO SURVEY

Survey by RICHARDS

Indexed T. M. PALMERI

F. B. 2823 Pg. 80

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
300+00.35 S.	305+34.30 S.		21	~~22~~	~~31~~			
			22	20	33			
			23	18	15			
			24	16	46			2966534
			25	14	19			
			26	12	22			
			27	10	29			2966536
			28	07	35			
			29	05	35			
			30	04	30			2966538
			31	03	26			
			32	01	48			
			33	00	00			2966540
			34	358	04			
			35	~~357~~	~~25~~	-02	-35	
			36	~~356~~	~~17~~	-03	-43	2966562
			37	~~355~~	~~30~~	-04	-30	
			38	~~354~~	~~17~~	-05	-43	
		11:07	39	~~353~~	~~31~~	-06	-29	2966564
						00	00	
						00	00	
						00	00	2966566

RANGE 296+65 S (CON'T)

SEE PG. 79 FOR SKETCH

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 0J00D2 Tape Std. °F
Office Work	Surveyed by RICHARDS
Checked	Notes CHARRIER Dates 5-18-72
Date	Indexed T. M. PALMERI 5 '72

F. B. 2323 PG. 81

TIDE GAGE READINGS
MAY 18, 1972
TIME – P.S.T.
DATUM – M.L.L.W.

TIME	TIDE
6:00	0.3
6:30	0.1
7:00	-0.2
7:30	-0.3
8:00	-0.5
8:30	-0.3
9:00	-0.2
9:30	0.2
10:00	0.4
10:30	0.9
11:00	1.3
11:30	1.8
12:00	2.3
12:30	2.7
13:00	3.0
13:30	3.3
14:00	3.5

NOTE – TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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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COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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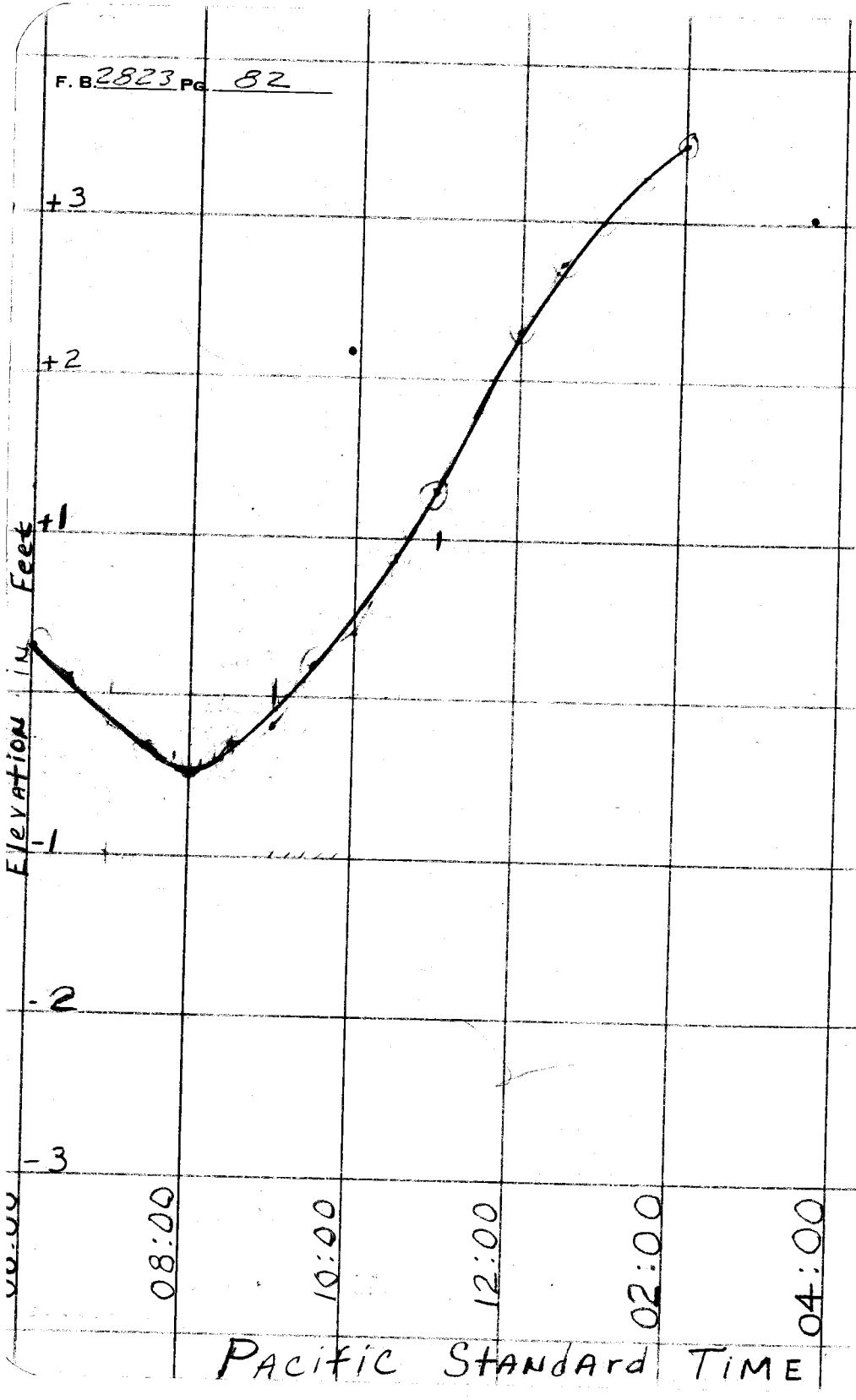
76F309S CE#310 3-68

F. B. 2823 PG. 82



PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend this side of this line.

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

307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

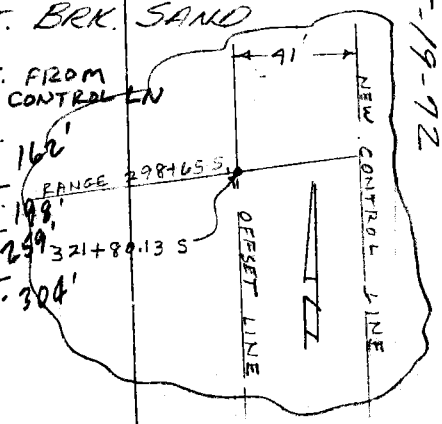
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	~~332~~ 321 +80.13S (NEW) = 298+65S. (OLD)
298+65S. (OLD LINE)				11 46	1X2, F.B. 2316-32
~~332~~ 321 +80.13S (NEW LINE)				11 9	11' L. BOT. OF ROCKS
				22 9	34' L. TOP OF ROCKS

TRANSIT @ 319+80.73S. (NEW LINE) = 296+65S (OLD LINE) ~ SITE ON
323+77.46S. (NEW LINE) = 300+65S (OLD LINE) ANGLES TO RIGHT.
RUNNING ~~332~~ 321 +80.13S (NEW LINE)
(298+65S) (OLD LINE)

	1 98	13 44		11 46	1X2 T.P ABOVE
			3 2	10 2	20' R. TOP BRK. SAND
			8 8	4 6	60' R M.H.T.
			10 1	3 3	70' R BOT. BRK. SAND
	1 34	5 48	9 30	4 14	T.P
					ANGLE
			4 6	0.9	31°39'
			6 0	-0 5	38°48'
			10 5	-5 0	48°20'
			13 9	-8 4	53°46'

DIST. FROM OLD CONTROL LN
RT. 162'
RT. 198'
RT. 259'
RT. 304'



DATUM - M.L.L.W.

NOTE: ALL INFORMATION ON THIS PAGE IS REFERENCED TO THE 41.00 OFFSET LINE

(ORIGINALS WERE SCALED BY MAIN)

5-19-72

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2823 Pg. 83
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-19-72
No. ____ Date ____ Date ____ Map No. ____ Index Id M. PALMERI Date JAN 5 72

F. B. 2823 PG. 84

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

BLANK

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76

76L298 307 Cdb 12-62

PLEASE RETURN TO

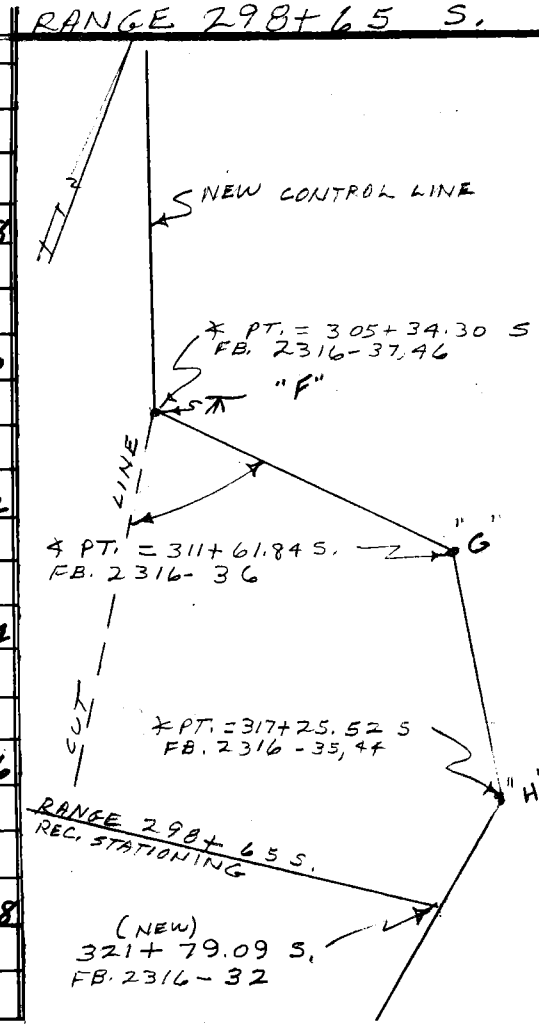
LOS ANGELES COUNTY SURVEYOR

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
305+34.30 S. NEW LINE	311+61.84 S. NEW LINE	6:54	1	136	12			
			2	135	36			
			3	134	47			2986518
			4	133	51			
			5	133	18			
			6	132	16			2986520
			7	131	11			
			8	129	47			
			9	128	33			2986522
			10	127	07			
			11	125	48			
			12	124	00			2986524
			13	122	40			
			14	120	48			
			15	118	55			2986526
			16	117	23			
			17	115	32			
			18	114	23			2986528
			19	111	55			
			20	110	16			
				108	09			2986530



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2823 Pg. 85

Date ____ Date ____ Survey of HYDRO - SURVEY

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 5-19-72

Date ____ Date ____ Map No. ____ Ind. T. M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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. 2823 Pg. 86 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No. X-Sec.

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

Indexed L. M. PALMER Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
~~305+34.30 S.~~	311+61.84 S.							
NEW Line	NEW Line		21	~~108~~	~~09~~			
			22	106	11			
			23	104	07			
			24	101	29			2986532
			25	99	48			
			26	96	55			
			27	94	26			2986534
			28	92	55			
			29	91	01			
			30	88	38			2986536
			31	86	38			
			32	84	16			
			33	82	07			2986554
			34	79	56			
			35	77	27			
			36	75	23			2986556
			37	73	34			
			38	71	30			
			39	69	33			2986558
			40	~~67~~	~~56~~			

RANGE 298+65 S. (CON'T)

SEE PG. 85 FOR SKETCH

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

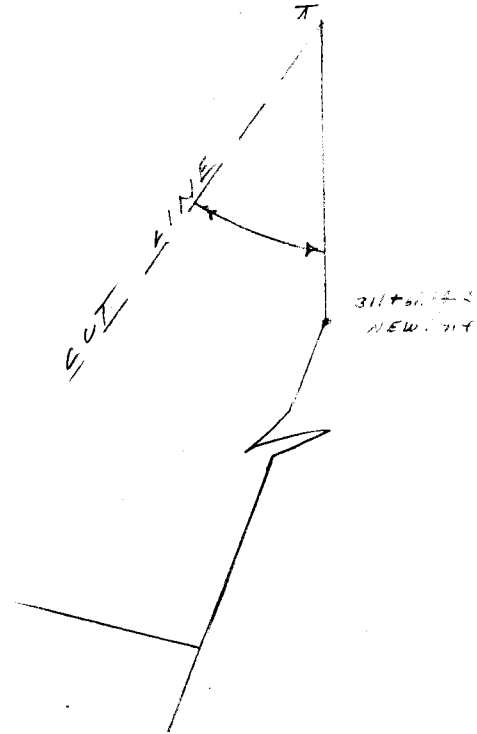
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

RANGE 298+65 S. (CON'T)

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	67	56			
305+34.30 NEW LINE	311+60.84 NEW LINE		41	66	36			
			42	65	11			2986560
			43	63	44			
			44	62	20			
			45	60	55			2986562
			46	59	52			
			47	58	47			
			48	57	55			2986564
			49	56	37			
		7:01	50	55	38			
				00	00			2986566
				00	00			
				00	00			2986568

SEE PG. 85 FOR SKETCH DETAILS



RANGE = 298+65 S.

Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 87

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 5-19-72

No. Date Date Map No. Indexed T. M. PALMER Date JN 5 '72

F. B. 2823 Pg. 88 | Job No. 300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

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

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

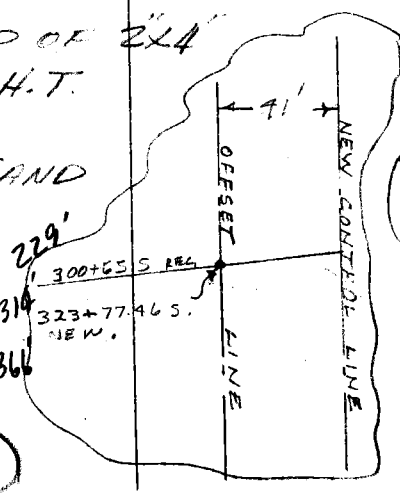
Do not extend notes this side of this line.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 2300 Division No. 11 F.B. 2823 PG. 83
X-Sec. No. ____ Date ____ Date ____ Date ____ Survey of LYNWOOD SURVEY - KEYSTONE BENCH
Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Index No. ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	323+77.46S (NEW) = 300+65S (OLD)	
300+65S (OLD LINE)				1786	"X" IN ROCK	FB. 2316-32
323+77.46S (NEW LINE)				232	11' LT. TOP OF ROCKS	
				113	20' RT. BOT. OF ROCKS	
				55	80³ RT. SAND	
				69	" " TOP OF 2"x4"	

TRANSIT @ 319+80.73S. (NEW LINE) = 296+65S (OLD LINE) ~ SITE ON 323+77.46S (NEW LINE) = 300+65S. (OLD LINE) RUNNING 323+77.46S (NEW LINE) = 300+65S (OLD LINE) ~ ANGLES TO RIGHT.

	02	71		69'	80³ RT. TOP OF 2"x4"	
			25	46'	85⁵ RT. M.H.T.	
	19	51	39	32'	T.P.	
			50	01'	149' RT SAND	
					ANGLE	
			66	-1⁵	25°42'	RT. 229'
			131	-80'	34°59'	RT. 314'
	ESTIMATED		180	-1³⁹	39°53'	RT 366'



(BY KAMIN)

5-19-72

DATUM — M.L.L.W.

NOTE: ALL INFORMATION ON THIS PG. IS REFERENCED TO THE 41' OFFSET LINE ONLY.

F. B. 2823 Pg. 90 | Job No. ____ Division No. ____ Notes Red ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chk'd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

BLANK.

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

76-L-298 CE 307 5-66

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 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.

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

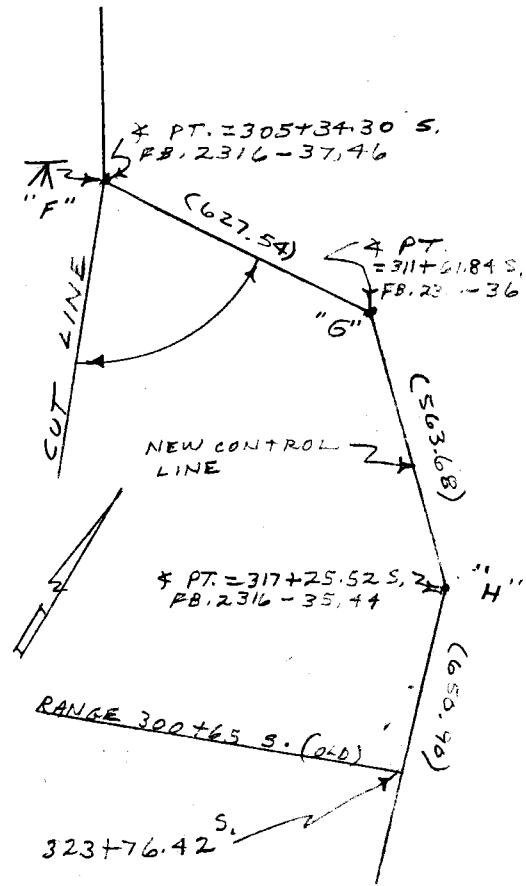
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
305+34.30 NEW	311+61.84 Lines	7:15	1	127	51			
			2	125	23			
			3	124	35			3006520
			4	123	46			
			5	122	41			
			6	121	35			3006522
			7	120	17			
			8	119	20			
			9	118	12			3006524
			10	116	55			
			11	115	50			
			12	114	47			3006526
			13	113	22			
			14	112	07			
			15	110	45			3006528
			16	109	19			
			17	108	11			
			18	106	47			3006530
			19	105	35			
			20	103	56			
				102	26			3006532

RANGE 300+65 S.



Profile Notes Red. ____ Plotted ____ Job No. 55002 Division No. 11 F. B. 6893 Pg. 91

No. ____ Date ____ Date ____ Survey of HYDRO - SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-19-72

No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date 5-72

76L298 307 Cdb 12-62

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2823 Pg 92 Job No 2300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by McHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed T. M. PALMERI Date Date Date No.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
305+35.30 S.	311+61.84 S.		21	~~402~~	~~26~~			
			22	100	46			
			23	99	46			
			24	98	09			3006534
			25	96	37			
			26	95	29			
			27	93	49			3006536
			28	92	25			
			29	90	44			
			30	89	27			3006538
			31	87	42			
			32	86	33			
			33	84	47			3006560
			34	83	14			
			35	81	06			
			36	79	20			3006562
			37	77	42			
			38	75	49			
			39	74	37			3006564
			40	73	06			
				71	52			
				70	11			3006566

RANGE 300+65 S. (CONT)

SEE PG. 91 FOR SKETCH

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

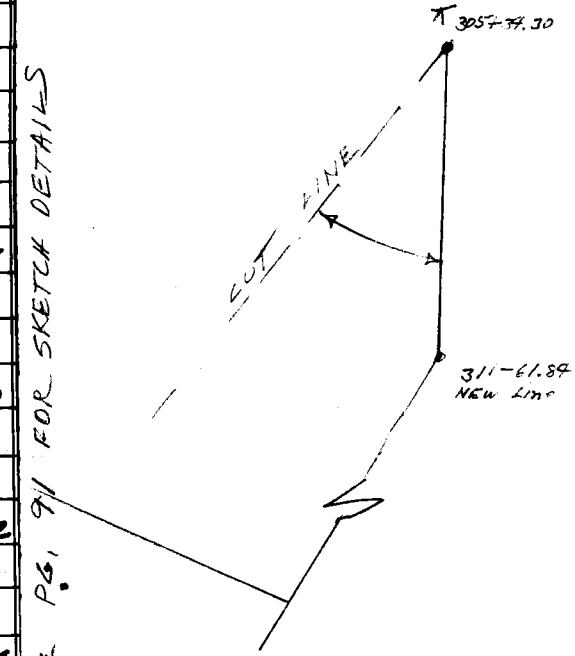
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
305+34.30 NEW	311+61.84 LINE		41	~~71~~	~~52~~			
			42	~~70~~	~~11~~			
			43	68	40			
			44	67	35			
			45	66	44			3006568
			46	66	03			
			47	65	20			
			48	63	46			3006570
			49	62	30			
			50	61	25			
			51	60	16			3006572
			52	59	04			
			53	57	45			
			54	56	43			3006574
		7:23	55	55	31			
				00	00			
				00	00			3006576
				00	00			
				00	00			
				00	00			3006578

RANGE 300+65 S. (CON'T)

SEE PG. 91 FOR SKETCH DETAILS



RANGE = 300+65 S.

Profile Notes Red. ____ Plotted ____ Job No. 3006 Division No. 11 F. B. 2823 Pg. 93

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 5-19-72

No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JUN 5 '72

F. B. 2823 Pg. 94 Job No. 300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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.

761.298 307 Cdb 12-62

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

Survey of HYDROGRAPHIC SURVEY F. B. 2823 PG. 95
JN 0300.02 Tape Std °F
Surveyed by RICHARDS
Notes CHARRIET Date 5-19-72
Indexed T. M. PALMERI JUN 5 72

TIDE GAGE READINGS
MAY 19, 1972
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	1.6
6:30	1.2
7:00	0.8
7:30	0.6
8:00	0.3
8:30	0.2
9:00	0.1
9:30	0.1
10:00	0.3
10:30	0.6
11:00	0.9
11:30	1.3
12:00	1.7
12:30	2.2
13:00	2.5
13:30	3.0
14:00	3.3

NOTE — TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

Do not extend this side of this line.

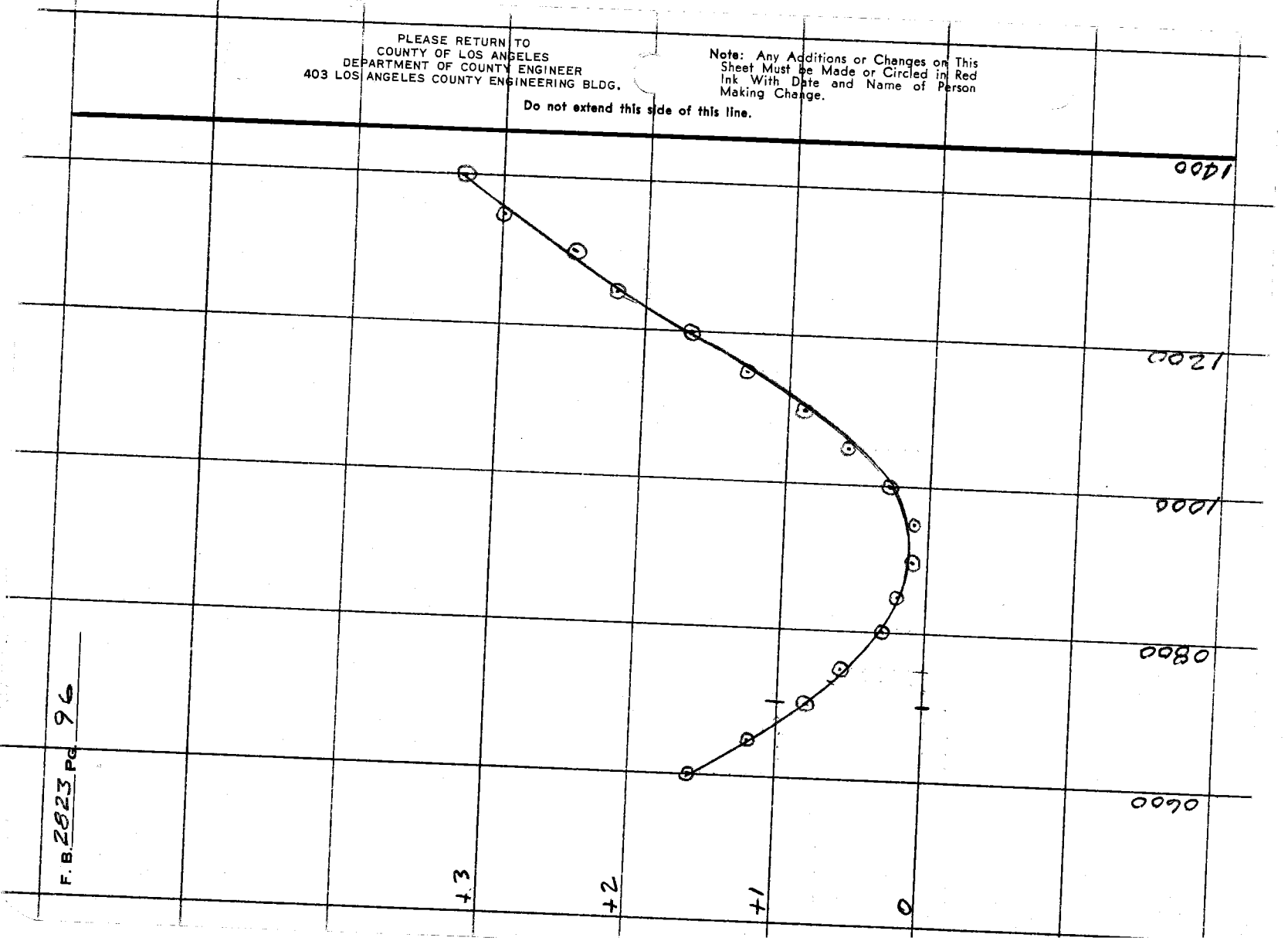
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



F. B. 2823 PG. 96

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

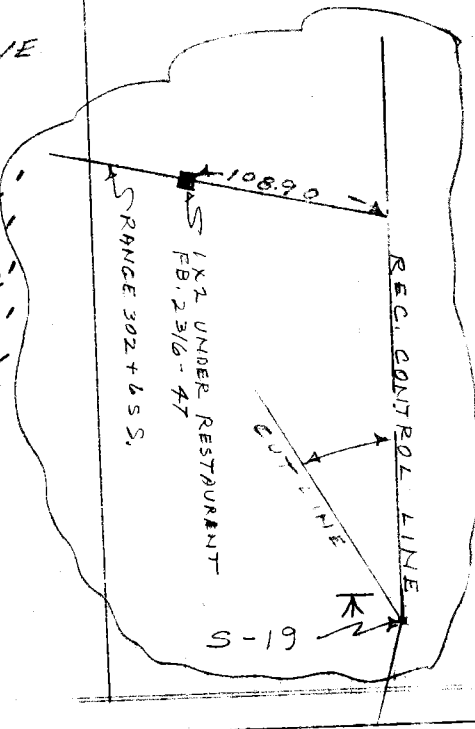
STATION	B. S.	H. I.	F. S.	ELEV.	302 + 65 S.
302+65 S.				6 00	1X2, under restaurant, F.B. 2316-47
				10 5	30' L. Brk.
				10 9	90' L. sand, Bot. conc. wall under pier

TRANSIT SET @ S-19 SITE ON 304+65 S. ANGLES TO LEFT
RUNNING 302+65 S

	0 38	6 38		6 00	1X2 T.P. ABOVE
			1.8	4.6	9' RT. M.H.T.
					ANGLE
			6.2	0 2	23°-06' LT. 152'
			7 4	-1.0	27°-55' LT. 194'
			9.6	-3.2	32°-34' LT. 242'
			12 8	-6 4	36°-30' LT. 290'
			17 4	-11 0	41°-10' LT 365'

NOTE: MEASURED OFFSETS ARE FROM 1X2 UNDER RESTAURANT, AS SHOWN

DATUM — M.L.L.W.



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2823 Pg. 97
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date 5 '72

F. B. 2823 PG. 98

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

BLANK

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

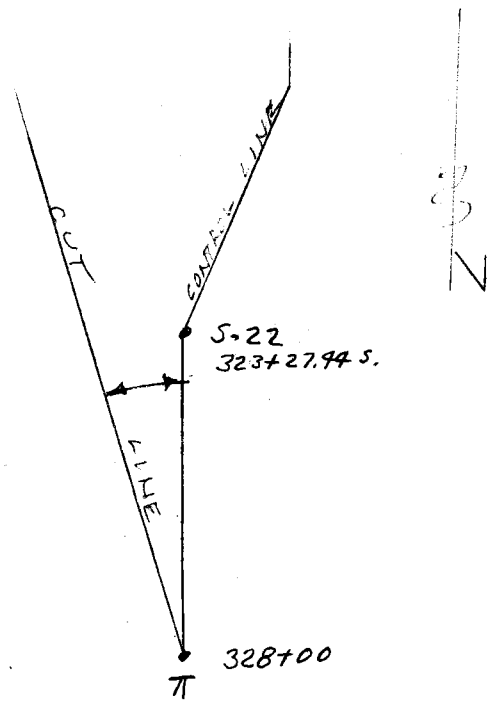
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	6:27	1	313	24	46	36	
			2	313	54	46	06	
			3	314	21	45	39	3026520
			4	314	55	45	05	
			5	315	21	44	39	
			6	315	52	44	08	3026522
			7	316	02	43	58	
			8	316	38	43	22	
			9	317	00	43	00	3026524
			10	317	31	42	29	
			11	318	01	41	59	
			12	318	27	41	33	3026526
			13	318	54	41	06	
			14	319	23	40	37	
			15	319	51	40	09	3026528
			16	320	21	39	39	
			17	320	48	39	12	
			18	321	19	38	41	3026530
			19	321	44	38	16	
			20	322	34	37	26	
						36	55	3026532

RANGE 302+65 S.



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 91
Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R. T. Date 5-22-72
Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date 5-72

76L298 307 Cdb 12-62

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. 2823 Pg. 100 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO SURVEY Date Date No.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.

Indexed T. M. PALMERI Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+00	S-22 323+27.94		21	323	05			
			22	323	20	36	40	
			23	323	52	36	08	
			24	324	24	35	34	3026534
			25	325	09	34	51	
			26	325	52	34	08	
			27	326	36	33	24	3026536
			28	327	12	32	48	
			29	328	02	31	58	
			30	328	42	31	18	3026538
			31	329	32	30	28	
			32	330	12	29	48	
			33	331	07	28	53	3026540
			34	331	56	28	04	
			35	332	38	27	22	
			36	333	27	26	33	3026562
			37	334	11	25	49	
			38	335	00	25	00	
			39	335	54	24	06	3026564
			40	336	37	23	23	
						22 21	40 51	3026566

FINGE 302+65 S. CONT

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

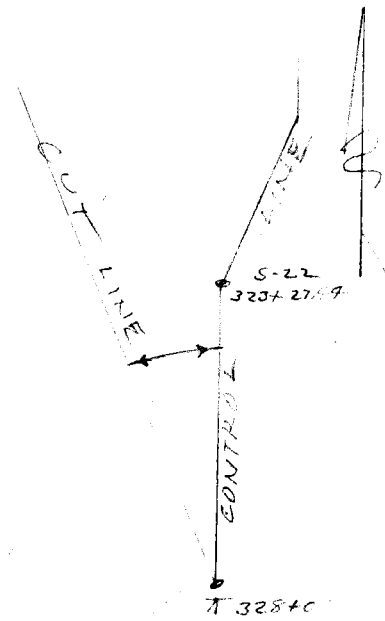
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44		41	~~337~~	~~20~~			
			42	~~338~~	~~09~~			
			43	338	58	21	02	
			44	339	00	21	00	
			45	340	47	19	13	3026568
			46	341	36	18	24	
			47	342	16	17	44	
			48	343	10	16	50	3026570
			49	343	48	16	12	
			50	344	28	15	32	
			51	345	25	14	35	3026572
			52	346	08	13	52	
			53	346	50	13	10	
			54	347	30	12	30	3026574
			55	348	01	11	59	
			56	348	31	11	29	
			57	349	12	10	48	3026576
			58	349	46	10	14	
			59	350	30	09	30	
			60	351	05	08	55	3026578

RANGE = 302+65 S



(OVER)

Profile Notes Red. Plotted Job No. 630002 Division No. 11 F. B. 2823 Pg. 101

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes Date 5-22-72

No. Date Date Map No. Index M. PALMERI Date 5 72

76L298 307 Cdb 12-62

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2823 Pg. 102 Job No. 030.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed L. M. PALMERI Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only Range Deg.	Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+00	S-22							
	323+27.14		61	~~351~~	~~30~~	08	10	
		6:56	62	~~352~~	~~20~~	07	40	
						00	00	3026580
						00	00	
						00	00	
						00	00	3026582

RANGE 302+65 S. (CON'T)

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	304+65 S.
304+65S.				14 85	1X2, F.B. 2316-47
				17 5	21', L. B.B.
				22 7	36', L. T.B.
				11 6	115' R. Brk.
				6 93	156' R., 1X2, edge of water.

TRANSIT @ 308+65S SITE ON S-19 ANGLES TO LEFT RUNNING

304+65S							
	000	6 93		6 93	156' RT. (T.P.)		
			23	46'	175' RT M.H.T		
					ANGLE		
			67	02'	35°-48'	LT.	209'
			72	-03'	41°-53'	LT.	261'
			112	-43'	48°-21'	LT.	325'
			150	-81'	52°-32'	LT.	375'
			175	-106'	55°-38'	LT	412'

DATUM-M.L.L.W.

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2823 PG. 103
No. ____ Date ____ Date ____ Survey of Hydrosurvey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by SHEEMAN & MYERS Notes ____ Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date JAN 5 '72

F. B. 2823 Pg. 104 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

BLANK

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

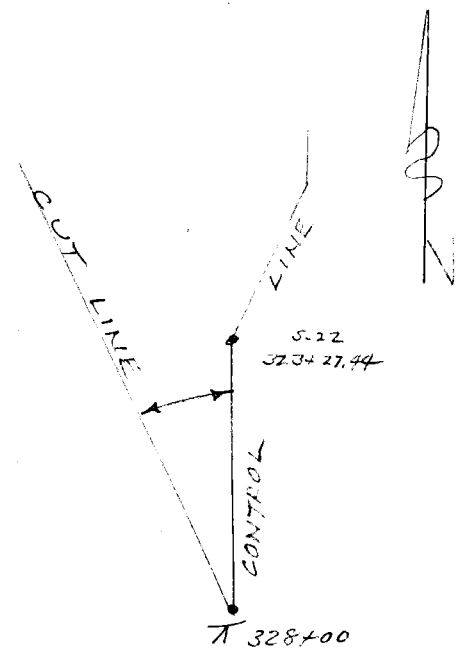
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	6:56	1	314	54	45	06	
			2	315	46	44	14	
			3	316	34	43	26	3046520
			4	317	30	42	30	
			5	318	22	41	28	
			6	319	05	40	55	3046522
			7	320	05	39	55	
			8	321	52	38	08	
			9	321	39?	38	21	3046524
			10	322	26	37	34	
			11	323	18	36	42	
			2	324	10	35	50	3046526
			13	325	14	34	46	
			14	326	06	33	54	
			15	327	04	32	56	3046528
			16	327	45	32	15	
			17	328	56	31	04	
			18	329	46	30	14	3046530
			19	330	52	29	08	
			20	331	44	28	16	
						27	30	3046532

RANGE = 304+65 S.



Profile Notes Red. ____ Plotted ____ Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 105

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by R. C. HARDS Notes R.T. Date 5-22-72

No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date 5 '72

76L298 307 Cdb 12-62

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.

RANGE 304+65 S. CON'T

Inst. At (Don't Punch)	Sight On (Don't Punch)	Time (Don't Punch)	Angle No. (Don't Punch)	Hor. Deg.	Angle Min.	For Office Use Only: Range Deg.	Range Min.	Card No.
328+00	322 323+27.44		21	~~332~~	~~30~~			
			22	333	26	26	34	
			23	334	25	25	35	
			24	335	17	24	43	3046554
			25	336	10	23	50	
			26	337	17	22	43	
			27	338	05	21	55	3046556
			28	339	01	20	59	
			29	340	00	20	00	
			30	340	52	19	08	3046558
			31	341	54	18	06	
			32	342	50	17	10	
			33	343	55	16	05	3046560
			34	344	35	15	25	
			35	345	28	14	32	
			36	346	08	13	52	3046562
			37	346	50	13	10	
			38	347	34	12	26	
			39	348	15	11	45	3046564
			40	348	54	11	06	
						10 09	24 45	3046566

F. B. 2823 Pg. 106 Job No. 0304.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed T. M. PALMERI Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

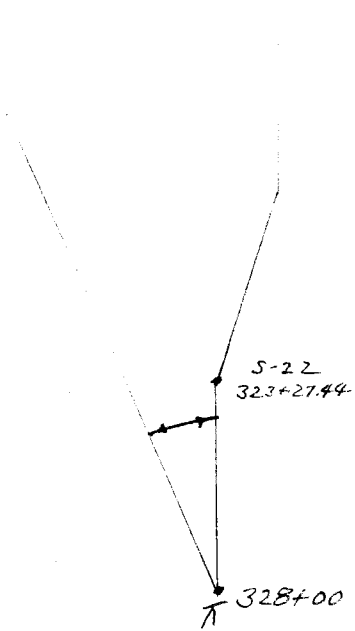
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44		41	~~349~~	~~36~~			
			42	~~350~~	~~15~~			
			43	~~351~~	~~09~~	08	51	
			44	~~351~~	~~56~~	08	04	
		7:03	45	~~352~~	~~20~~	07	40	3046568
						00	00	
						00	00	
						00	00	3046570

RANGE = 304+65 S
(CONT)



Profile Notes Red. ____ Plotted ____ Job No. 230002 Division No. 11 F. B. 2823 Pg. 107

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P.T. Date 5-22-72

No. ____ Date ____ Date ____ Map No. ____ Index T.M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 108 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

BLANK

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 Cdb 12-62

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	306+65 S.	
BM. S-19	0 00	21 56		21 56	B.M. S-19, el=21.56, F.B. 2100-246	
306+65S					Fd. S.& T. on Control line	
			0 53	21 0		6.5 R
			2.6	19.2		12 R
			7 2	14.4		75 R
			9 2	12.4		126 R
			14.88	6 68		176 R
TR TRANSIT @ 310+65S SITE ON S-19 ANGLES TO LEFT RUNNING						
306+65S						
	0 26	6 94		6 68	176' RT. 1"x2" T.P.	
			2 3	4 6	193' RT. M.H.T.	
					ANGLE	OK
			6.7	0 2	30°-06' LT.	232'
			7 2	-0 3	35°-04' LT.	281'
			11 1	-4 2	39°-41' LT.	332'
			15 3	-8 4	44°-37' LT	395'
			17 9	-11.0	47°-02' LT.	429'

DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date ____

F.B. 2823 Pg. 100

F. B. 2823 Pg. 110 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile.

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

BLANK

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

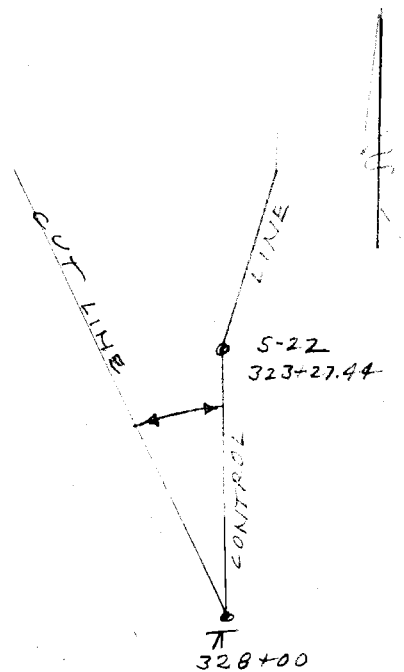
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	7:29		315	35	44	25	
			2	316	15	43	45	
			3	317	03	42	57	3066518
			4	317	56	42	04	
			5	318	14	41	46	
			6	319	26	40	34	3066520
			7	320	04	39	56	
			8	320	53	39	07	
			9	321	32	38	28	3066522
			10	322	19	37	41	
			11	322	56	37	04	
			12	323	36	36	24	3066524
			13	324	50	35	10	
			14	325	20	34	40	
			15	326	13	33	47	3066526
			16	327	17	32	43	
			17	328	35	31	25	
			18	331	36	28	24	3066528
			19	332	27	27	33	
			20	333	04	26	56	
						25	59	3066530

RANGE = 306 + 65 S



Profile Notes Red. ____ Plotted ____ Job No. 030002 Division No. 11 F. B. 3823 Pg. 111

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]-72

No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date [illegible] 5 72

76L298 307 Cdb 12-62

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.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No. 2300.02

Survey of HYDRO SURVEY

Survey by RICHARDS Notes R.T.

Indexed T. M. PALMERI Date

F. B. 2823 PG. 112

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No.	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+00	S-22 323+27.44		21	~~336~~	~~01~~			
			22	334	48	25	12	
			23	335	54	24	06	
			24	336	31	23	29	3066550
			25	337	31	22	29	
			26	338	08	21	52	
			27	339	06	20	54	3066552
			28	339	52	20	08	
			29	340	38	19	22	
			30	341	37	18	23	3066554
			31	342	22	17	38	
			32	343	09	16	51	
			33	344	08	15	52	3066556
			34	345	03	14	57	
			35	345	46	14	14	
			36	346	35	13	25	3066558
			37	347	25	12	35	
			38	348	05	11	55	
			39	348	55	11	05	3066560
			40	349	36	10	24	
						09 08	32 50	3066562

RANGE 306+65 S.
(CON'T)

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

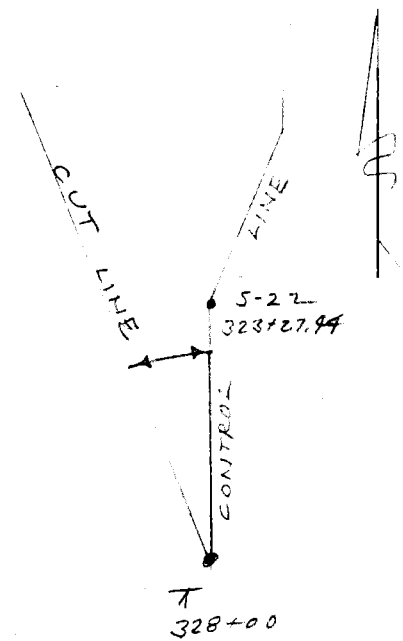
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44		41	~~350~~	~~28~~			
			42	~~351~~	~~10~~			
			43	~~351~~	~~58~~	08	02	
		7:36	44	~~352~~	~~39~~	07	21	
						00	00	3066564
						00	00	
						00	00	
						00	00	3066566

RANGE = 306+65

(CONT.)



Profile Notes Red. Plotted Job No. 03300.02 Division No. 11 F. B. 2823 Pg. 113

No. Date Date Survey of HYDRO SURVEY

X-Sec. Notes Chkd. Checked Survey by M. HARDS Notes R. T. Date 5-27-72

No. Date Date Map No. Indexed J. M. PALMERI Date JUN 5 72

F. B. 2823 PG. 114 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

BLANK

76-L-298 CE 307 5-66

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

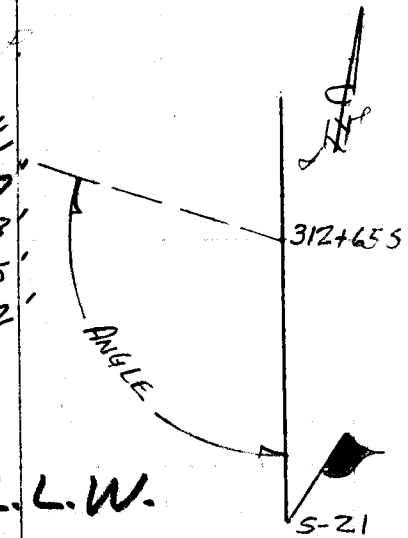
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	308+65 S		
T.P.	10.19	1687		6.68			
308+65 S						℄	
			+2.0	13.9		7' R.	[illegible]
			+0.3	16.7		9' R	[illegible]
			2.5	14.4		10' R	[illegible]
			4.3	12.1		11.6' R	[illegible]
T.P.			1027	6.60		165' R	1X2

TRANSIT @ 312+65 S SITE ON S-21 ANGLES TO RIGHT.
RUNNING 308+65 S

028	688		6.60	165' RT. 1X2 T.P.		
		23	4.6	181' RT. M.H.T.		
				ANGLE		OK
		7.0	-0.1	145°-45'	RT	237'
		9.3	-2.4	139°-35'	RT.	298'
		13.8	-6.9	133°-50'	RT	365'
		17.9	-11.0	129°-39		422'



DATUM - M.L.L.W.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2823 PG. 115
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible] Survey by SHOEMAKER - MYERS Notes E.S. & K.M. Date 5/22/72
Notes Chk'd. ____ Checked ____ Map No. ____ Indexed M. PALMER Date 5/72

F. B. 2823 PG. 116 | Job No. 030002 Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

BLANK

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

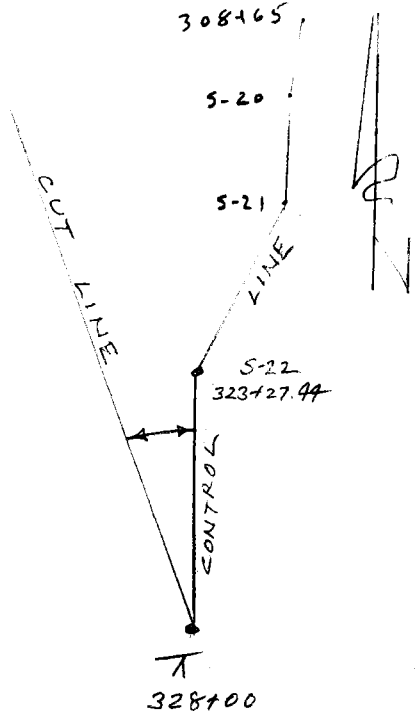
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	7:45	1	315	09	44	51	
			2	316	12	43	48	
			3	317	12	42	48	3086518
			4	317	56	42	04	
			5	318	57	41	03	
			6	319	09	40	51	3086520
			7	320	40	39	20	
			8	321	27	38	33	
			9	322	22	37	38	3086522
			10	323	10	36	50	
			11	324	12	35	48	
			12	325	08	34	52	3086524
			13	326	05	33	55	
			14	327	12	32	48	
			15	328	13	31	47	3086526
			16	329	26	30	34	
			17	330	30	29	30	
			18	331	32	28	28	3086528
			19	332	35	27	25	
			20	333	38	26	22	
						25	08	3086530

RANGE 308+65 S



Profile Notes Red. ____ Plotted ____ Job No. 6300.02 Division No. 11 F. B. 2823 Pg. 117
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R. T. Date 5-12-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date 5-12

76L298 307 Cdb 12-62

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. 2823 Pg. 118 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO - SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed T. M. PALMER Date Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Deg.	Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+00	S-22 323+27.44		21	334	52			
			22	336	06	23	54	
			23	337	17	22	43	
			24	338	23	21	37	3086550
			25	339	18	20	42	
			26	340	22	19	38	
			27	341	28	18	32	3086552
			28	342	24	17	36	
			29	343	17	16	43	
			30	344	15	15	45	3086554
			31	345	12	14	48	
			32	346	10	13	50	
			33	347	17	12	43	3086556
			34	348	30	11	30	
			35	349	23	10	37	
			36	350	20	09	40	3086558
			37	351	22	08	38	
		7:51	38	352	27	07	33	
						00	00	3086560
						00	00	
						00	00	
						00	00	3086562

RANGE 308+65 S. (CON'T)

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	310+65 S.	
77	11 43	1 303		6 60		
310+65 S						
			0.08	17 95		6 4 R Top [illegible]
			03	17.7		6 6 R Sand
			20	16 0		43 R
			55	12 5		92 R
			81	9 9		22 R
7			[illegible]	6.2		153 R 1x2

TRANSIT @ 314+65S SITE ON S-20 ANGLES TO LEFT RUNNING

310+65 S						
	0 54	6 80		6 26	153' RT. 1"x2" T.P.	
			22	4 6	168' RT. M.H.T.	
					ANGLE	
			67	0.1	30°-10'	LT. 214' ✓
			77	-0 9	35°-26'	LT 262' ✓
			117	-4 9	41°-41'	LT 326' ✓
			160	-9 2	46°-47'	LT. 387' ✓
			174	-10 6	48°-04'	LT. 404' ✓

DATUM - M. L. L. W.

Profile Notes Red ____ Plotted ____ Job No. 0300002 Division No. 11 F. B. 2823 Pg. 119
No. ____ Date ____ Date ____ Survey of HYDRO-SHOVEL REMOVED BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by SHOEMAKER-MYERS Notes E.S.& K.M. Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMER Date JUN 5 72

F. B. 2823 Pg. 120 | Job No. 0300.02 Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

BLANK

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

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

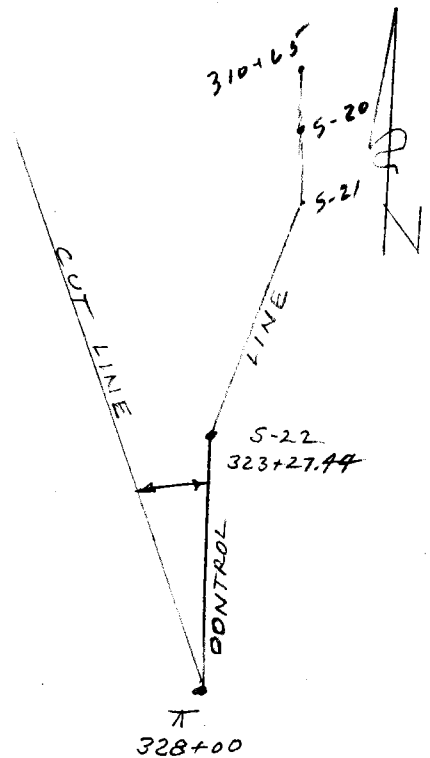
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	8:01	1	313	24	46	36	
			2	314	04	45	56	
			3	314	46	45	14	3106518
			4	315	36	44	24	
			5	316	50	43	10	
			6	317	05	42	55	3106520
			7	317	58	42	02	
			8	319	01	40	59	
			9	319	56	40	04	3106522
			10	320	49	39	11	
			11	321	42	38	18	
			12	322	46	37	14	3106524
			13	323	55	36	05	
			14	324	58	35	02	
			15	326	02	33	58	3106526
			16	327	08	32	52	
			17	328	18	31	42	
			18	329	23	30	37	3106528
			19	330	36	29	24	
			20	331	57	28	03	
						26	56	3106530

RANGE = 310.65 S.



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 03MA02 Division No. 11 F. B. 2823 Pg. 121

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-22-72

Date ____ Date ____ Map No. ____ Indexed J. M. PALMER Date JAN 5 72

76L298 307 Cdb 12-62

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.

RANGE 310+65 S. (CONT.)

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Deg.	Range Min.	Line	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch						
328700	5-22 328+27.44		21	~~333~~	~~04~~				
			22	333	58	26	02		
			23	335	24	24	36		
			24	336	31	23	29		3106532
			25	337	54	22	06		
			26	339	16	20	44		
			27	340	20	19	40		3106534
			28	341	45	18	15		
			29	342	57	17	03		
			30	344	31	15	29		3106536
			31	345	36	14	24		
			32	346	48	13	12		
			33	347	58	12	02		3106538
			34	348	56	11	04		
			35	349	48	10	12		
		8'07	36	350	52	09	08		3106540
						00	00		
						00	00		
						00	00		3106542

Profile

F. B. 2823 Pg. 122 Job No. 2300.02 Division No. 11 Notes Red. Plotted No. X-Sec.

Survey of HYDRO-SURVEY Date Date

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

Indexed T. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

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

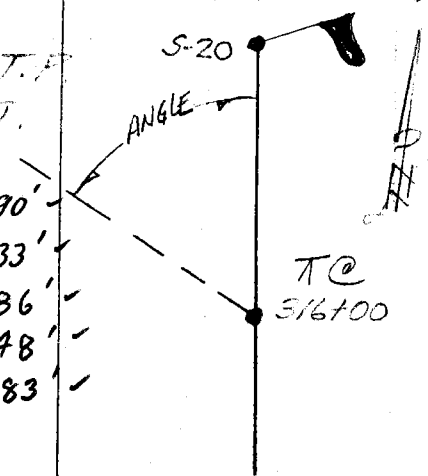
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	312+65 S	
TP	10 94	17 20		6 26		
TP	1 14	18.09	0 25	16 95		
BM S 20			0 72	17 37	BM S 20 El 15.42 F.B. 21 [illegible]	
					℄	
312+65			0.92	17.17		8[illegible] R Top [illegible]
			[illegible]	16 5		8.4 R Sand
			5.7	12.4		8 3 R [illegible]
			8 2	9 9		117 R
			11 07	7 02		139 R 1 x 2"

TRANSIT @ 316+00 ~ SITE ON S-20 ~ ANGLES TO LEFT ~ RUNNING
312+65 S

	0 11	7 13		7 02	139' RT 1x2 T.P.	
			25	4.6	161.5 RT. M.H.T.	
					ANGLE	
			6 2	0 9	30°-28'	LT. 190'
			7 8	-0 7	36°-12'	LT. 233'
			10.1	-3.0	42°-10'	LT. 286'
			14.8	-7.7	48°-13'	LT. 348'
			17.1	-10 0	51°-11'	LT. 383'



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2823 Pg. 123
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by SHOEMAKER-MYERS Notes E.S.F.K.M. Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Index R. M. PALMER Date 5 72

F. B. 2823 Pg. 124 | Job No. 0300.02 Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

BLANK

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

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

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

76L298 307 Cdb 12-62

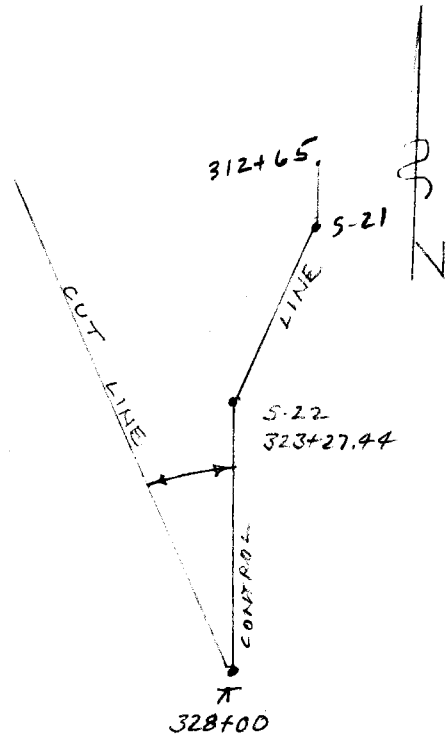
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	8:19	1	309	54	50	06	
			2	310	43	49	17	
			3	311	42	48	18	3126516
			4	312	30	47	30	
			5	313	18	46	42	
			6	314	15	45	45	3126518
			7	315	10	44	50	
			8	316	05	43	55	
			9	317	03	42	57	3126520
			10	317	57	42	03	
			11	318	59	41	01	
			12	320	10	39	50	3126522
			13	321	02	38	58	
			14	322	12	37	48	
			15	323	26	36	34	3126524
			16	324	48	35	12	
			17	325	00	35	00	
			18	327	16	32	44	3126526
			19	328	26	31	34	
			20	329	38	30	22	
						29	10	3126528

RANGE = 312+65 S.



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 125
No. Date Date Survey of HYDRO SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R. T. Date 5-22-72
No. Date Date Map No. Indexed T. M. PALMER Date 5 72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44		21	~~330~~	~~50~~			
			22	332	20	27	40	
			23	333	45	26	15	
			24	335	25	24	35	3126530
			25	336	46	23	14	
			26	338	58	21	02	
			27	339	36	20	24	3126532
			28	340	54	19	06	
			29	342	11	17	49	
			30	343	21	16	39	3126534
			31	344	31	15	29	
			32	346	14	13	46	
			33	347	26	12	34	3126536
			34	349	08	10	52	
			35	350	34	09	26	
		8:24	36	353	50	06	10	3126538
						00	00	
						00	00	
						00	00	3126540

F. B. 2823 Pg. 126 Job No. 0300.02 Division No. 11 Notes Red. Plotted No. Profile

Survey of HYDRO - SURVEY Date Date X-Sec.

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

Indexed T. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

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

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

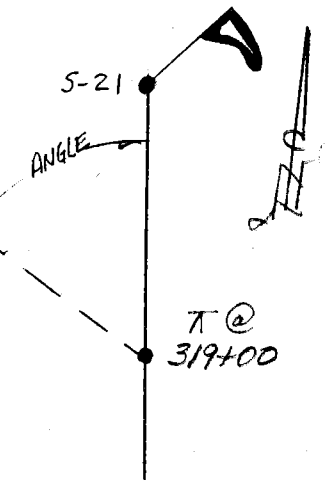
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
					314+65 S
		19.24			
314+65					
			5.81	17.38	
			1.8	16.3	
			6.0	12.1	
			12.44	5.65	
T.P.			0.71	17.38	

- TRANSIT @ 319+00 ~ SITE ON S-21 ~ ANGLES TO LEFT ~ RUNNING 314+65 S

	0.45	6.10		5.65	148' RT. 1X2" T.P.
			1.5	4.6	157 RT. M.H.T.
					ANGLE
			4.8	1.3	30°-50' LT. 196
			7.8	-1.7	38°-53' LT. 269
			11.3	-5.2	44°-51' LT. 329
			15.0	-8.9	49°-55' LT. 388

DATUM MEAN LOWER LOW WATER



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. ____ F.B. 2823 Pg. 127
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes E.S.F.K.M. Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 128 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

76-L-298 CE 307 5-66

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

Do not extend notes this side of this line.

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

76L298 307 Cdb 12-62

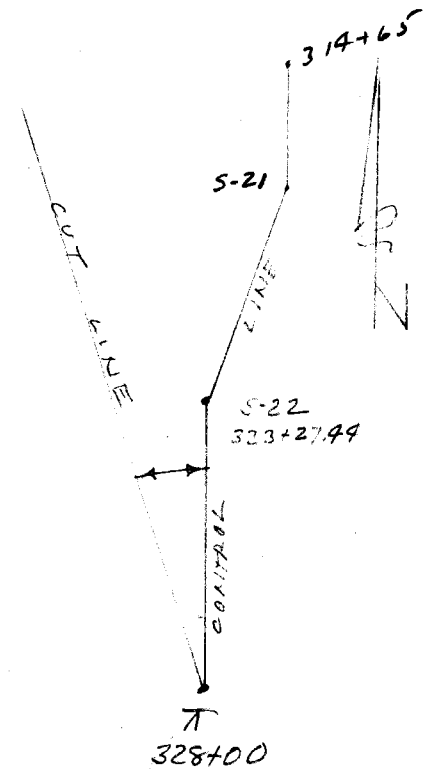
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	8:34	1	305	52	54	08	
			2	306	28	53	32	
			3	307	16	52	44	3146516
			4	308	00	52	00	
			5	308	50	51	10	
			6	309	33	50	27	3146518
			7	310	33	49	27	
			8	311	20	48	40	
			9	312	28	47	32	3146520
			10	313	30	46	30	
			11	314	30	45	30	
			12	315	38	44	22	3146522
			13	316	50	43	10	
			14	317	00	43	00	
			15	318	59	41	01	3146524
			16	319	30	40	30	
			17	320	52	39	08	
			18	321	45	38	15	3146526
			19	322	40	37	20	
			20	323	52	36	08	
						35	05	3146528

RANGE = 314 + 65 S.



Profile Notes Red. ____ Plotted ____ Job No. 03 00.02 Division No. 11 F.B. 2823 Pg. 129
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes [illegible] Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMER Date JAN 5 '72

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
328+00	Sr22 323+27.44		21	~~324~~	~~55~~			
			22	326	10	33	50	
			23	327	34	32	26	
			24	328	28	31	32	3146530
			25	329	56	30	04	
			26	331	15	28	45	
			27	332	17	27	43	3146544
			28	333	30	26	30	
			29	334	30	25	30	
			30	335	51	24	09	3146546
			31	336	54	23	06	
			32	338	28	21	32	
			33	340	06	19	54	3146548
			34	341	26	18	34	
			35	342	35	17	25	3146550 *
			36	343	58	16	02	
			37	345	06	14	54	
			38	346	44	13	16	3146552
			39	347	58	12	02	
			40	349	04	10	56	
		8.40	41	350	15	09	45	3146554

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11

Job No. 8300.02

Survey of HYDRO - SURVEY

Survey by RICHARDS Notes

Indexed T. M. PALMERI Date

F. B. 2823 Pg. 130

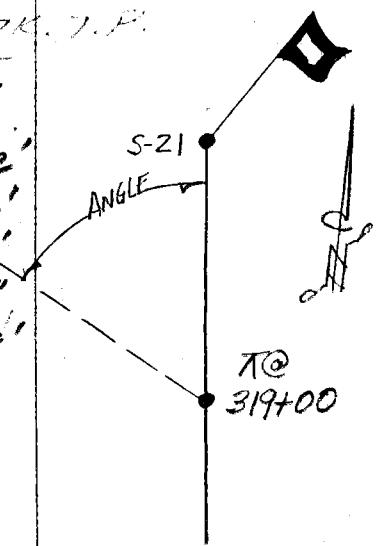
76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	316+00 S	
TP	[illegible]	19 09		17 38		
316+00 S						℄
			1 20	17 89		8" R. Top Cb & Sand
			3 8	15 29		46 R. [illegible]
			9 1	9 99		98 R. "
			12 89	6 20		132 R 1"X2"
TRANSIT @ 319+00 ~ SITE ON S-21 ~ ANGLES TO LEFT ~ RUNNING						
316+00 S						
	0 42	6 62		6 20	132' RT. 1"X2" STK. T.P.	
			2 0	4 6	148' RT. M.H.T.	
					ANGLE	
			5.6	1.0	39°-16'	LT. 192'
			7.2	-0 6	47°-35'	LT. 252'
			11 2	-4 6	53°-28'	LT. 303'
			14 8	-8 7.2	57°-58'	LT. 348"
			17 2	-10.6	60°-36'	LT. 378'



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. P300 02 Division No. 11 F.B. 2873 Pg. 131
No. ____ Date ____ Date ____ Survey of [illegible] Survey Redondo Beach
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes E.S.S.K.M. Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date ____

F. B. 2823 PG. 132 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

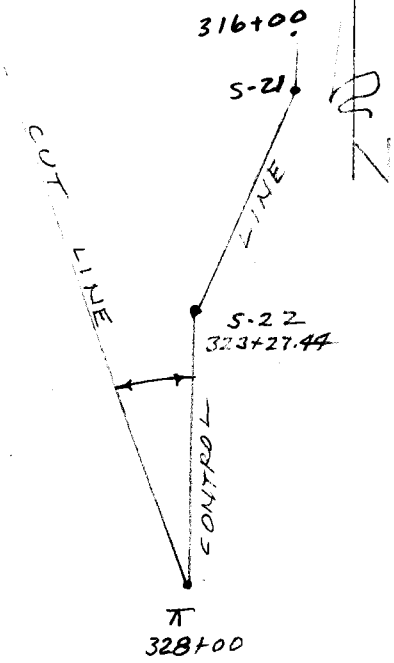
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	8:49	1	301	12	58	48	
			2	302	08	57	52	
			3	303	07	56	53	3160012
			4	304	08	55	52	
			5	305	18	54	42	
			6	306	28	53	52	3160014
			7	307	48	52	12	
			8	309	06	50	54	
			9	310	32	49	28	3160016
			10	312	46	47	14	
			11	313	23	46	37	
			12	314	46	45	14	3160018
			13	316	22	43	38	
			14	318	08	41	52	
			15	319	38	40	22	3160020
			16	321	27	38	33	
			17	323	15	36	45	
			18	325	25	34	35	3160022
			19	328	12	31	38	
			20	330	07	29	53	
						28	00	3160024

RANGE = 316+00 S



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 2340-01 Division No. 11 F. B. 2823 Pg. 135
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes ____ Date 5-22-72
Date ____ Date ____ Map No. ____ Indexed M. PALMER Date JUN 5 72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	5-22 323+27.44		21	~~332~~	~~00~~			
			22	333	10	26	50	
			23	334	38	25	22	
			24	336	09	23	51	3160026
			25	337	14	22	46	
			26	338	45	21	15	
			27	339	54	20	06	3160028
			28	341	14	18	46	
			29	342	43	17	17	
			30	344	05	15	55	3160030
		8:54	31	345	20	14	40	
						00	00	
						00	00	3160032
						00	00	
						00	00	
						00	00	3160034

F. B. 2823 PG. 134 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No.

Survey by RICHARDS Notes R. T. Notes Chkd. Checked X-Sec.

Indexed I. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

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

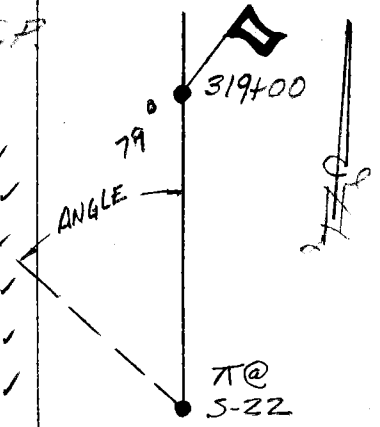
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	319+00 S	
		19 09				
S-21			0 49	18 60	BM S-21 El 13.50 FB 2120 -15	
	0 42	18 92		18 50		
319+00 S						℄
			+0 1	19 00		7.7 R Top Ch & Cor
			4 5	14 4		63 R
			13 17	5 75		46 R 1"X2"

– TRANSIT @ S-22 ~ SITE ON 319+00 S ~ ANGLES TO LEFT ~
RUNNING 319+00 S

	0 76	6 51		5 75	146' RT. 1X2 T.P.	
			1 9	4 6	157' RT. M.H.T.	
					ANGLE	
			6 1	0 4	29°-27'	LT. 221'
			8.8	-2.3	37°-41'	LT. 292'
			10 1	-3 6	41°-00'	LT. 323'
			13.0	-6 5	44°-43'	LT. 361'
			14.9	-8 4	48°-03'	LT. 398'
			17 0	-10 5	50°-55'	LT. 432'



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. ____ F.B. 2823 Pg. 135
No. ____ Date ____ Date ____ Survey of Hydro Survey Redondo Beach
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Index Fd. M. PALMER Date ____

F. B. 2822 PG. 136

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

76-L-298 CE 307 5-66

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.		

76L298 307 Cdb 12-62

PLEASE RETURN TO
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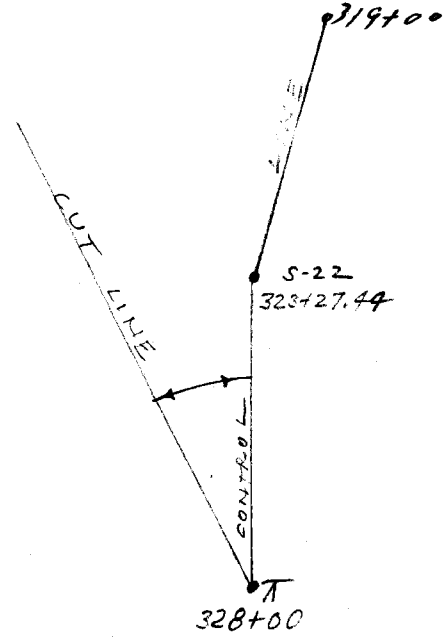
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44	9:05	1	307	25	52	35	
			2	308	29	51	31	
			3	309	26	50	34	3190010
			4	310	22	49	38	
			5	311	21	48	39	
			6	312	15	47	45	3190012
			7	313	10	46	50	
			8	314	00	46	00	
			9	314	54	45	06	3190014
			10	315	56	44	04	
			11	317	02	42	58	
			12	318	29	41	31	3190016
			13	319	36	40	24	
			14	320	45	39	15	
			15	322	03	37	57	3190018
			16	323	16	36	44	
			17	324	15	35	45	
			18	325	38	34	22	3190020
			19	327	24	32	36	
			20	328	27	31	33	
						29	59	3190022

RANGE = 319+00



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F.B. 2823 Pg. 137
No. Date Date Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R+1 Date 5-22-72
No. Date Date Map No. Indexed I. M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
328+00	S-22 323+27.44		21	330	01			
			22	331	45	28	15	
			23	333	18	26	42	
			24	335	02	24	58	3190024
			25	336	17	23	43	
			26	337	58	22	02	
			27	339	38	20	22	3190026
			28	340	00	20	00	
		9:09	29	342	16	17	44	
						00	00	3190028
						00	00	
						00	00	
						00	00	3190030

F. B. 2823 Pg. 138 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date No. X-Sec.

Survey by RICHARDS Notes Chkd. Checked

Indexed T. M. PALMERI Date Date No.

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

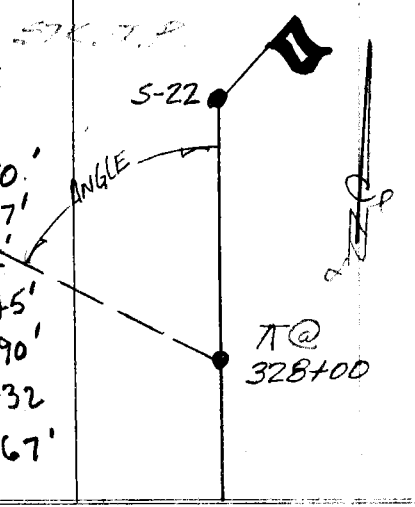
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	324+00 S	
		18 92				
T.P.	7 49	25 80	0 61	18 31		
324+00						℄
7[illegible]	[illegible]	21 05	4.93	20 87		4' R Top Cl
			0 9	20.15		4' R Sand
			6.4	14 65		37' R Brk
			9.0	12 05		92 R "
			15 1	5 95		141 R 1x2

TRANSIT @ 328+00 S ~ SITE ON S-22 ~ ANGLES TO LEFT ~
RUNNING 324+00 S

	03	62		59'	141' RT.	1"x2" STK. T.P.
			16	46'	152' RT.	M.H.T.
					ANGLE	
			5.1	11'	24°-14'	LT. 180'
			6 4	-0 2'	31°-44'	LT. 247'
			9.2	-3 0'	37°-55'	LT. 312'
			11.4	-5 2'	40°-46'	LT. 345'
			13 4	-7 2'	44°-16'	LT. 390'
			15 4	-9 2'	47°-13'	LT. 432
			16 7	-10 5'	49°-25'	LT. 467'



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 02 Division No. 11 F.B. 2923 Pg. 139
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY BOUNDS BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Index M. PALMERI Date JUN 5 72

F. B. 2823 PG. 140 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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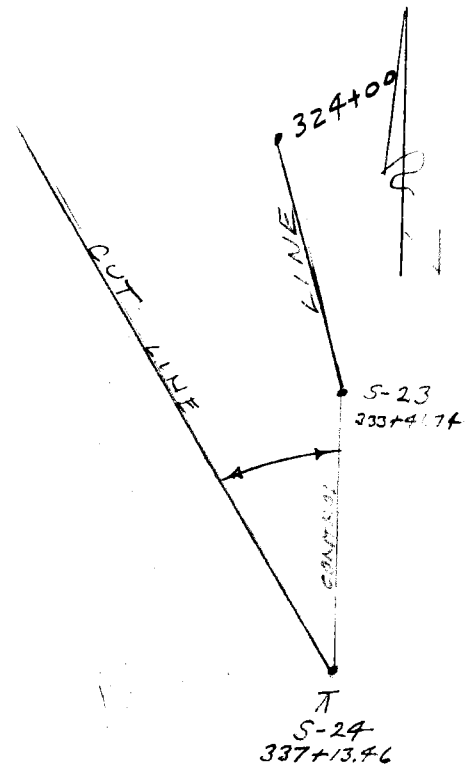
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24 337+13.46	S-23 333+41.74	9:28	1	304	40	55	20	
			2	305	14	54	46	
			3	305	52	54	08	3240014
			4	306	30	53	30	
			5	307	11	52	49	
			6	307	37	52	23	3240016
			7	308	02	51	58	
			8	308	43	51	17	
			9	309	18	50	42	3240018
			10	310	10	49	50	
			11	310	47	49	13	
			12	311	33	48	27	3240020
			13	312	16	47	44	
			14	313	01	46	59	
			15	313	37	46	23	3240022
			16	314	18	45	42	
			17	315	02	44	58	
			18	315	43	44	17	3240024
			19	316	47	43	13	
			20	317	38	42	22	
						41	19	3240026

RANGE = 324+00



Profile Notes Red. Plotted Job No. 03000.02 Division No. 11 F.B. 2823 Pg. 141
No. Date Date Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes P.T. Date 5-22-72
No. Date Date Map No. Indexed T. M. PALMERI Date JAN 5 '72

76L298 307 Cdb 12-62

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
5-24 337+BA6	5-23 333+41.74		21	~~318~~	~~41~~			
			22	319	42	40	18	
			23	320	55	39	05	
			24	321	48	38	12	3240028
			25	322	46	37	14	
			26	323	31	36	29	
			27	324	44	35	16	3240030
			28	325	10	34	50	
			29	326	07	33	53	
			30	327	13	32	47	3240046
			31	328	22	31	28	
			32	329	24	30	36	
			33	330	26	29	24	3240048
			34	331	28	28	22	
			35	332	37	27	27	
			36	333	26	26	34	3240050
			37	334	45	25	15	
			38	335	57	24	03	
			39	337	21	22	39	3240052
			40	338	25	21	35	
			41	339	21	20	39	
			42	340	20	19	40	3240054
		9:45	43	341	15	18	45	
				~~00~~	~~00~~	00	00	
				~~00~~	~~00~~	00	00	3240056

F. B. 2823 PG. 142

Job No. 2300.02 Division No. 11 Notes Red. ____ Plotted ____ Profile ____

Survey of HYDRO - SURVEY Date ____ Date ____ No. ____

Survey by RICHARDS Notes R. T. Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed T. M. PALMERI Date ____ Date ____ Date ____ No. ____

76-L-298 CE 307 5-66

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

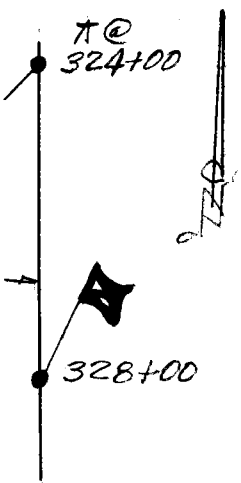
Do not extend notes this side of this line.

Profile No.____ Notes Red____ Plotted____ Job No. 0300 02 Division No. 11
X-Sec. No.____ Date____ Date____ Survey of [illegible]
Notes Chk'd____ Date____ Checked____ Date____ Survey by [illegible] Date [illegible]
Map No.____ Index No. ____ Notes T.M. PALMERI Date____ Date 5-5-72
F.B. 2823 PG. 145

STATION	B. S.	H. I.	F. S.	ELEV.	328+00 S
		21 05			
328+00 S					
			0.75	2030	7.3 R
			5.9	1515	47 R
			8 7	1235	90 R
			105	1055	163 R
			1452	653	204 R 1X2

- TRANSIT @ 324+00 S - SITE ON 328+00 S ~ ANGLE TO RIGHT ~
RUNNING 328+00 S

0 22	6 75		653	204' RT. 1X2 T.P.		
		215	460	221' RT. M.H.T.		
				ANGLE		
		53	14	36° 01'	RT. 291'	
		6 4	03	41° 18'	RT. 351'	
		8.2	-1 5	45° 40'	RT. 409'	
		11.3	-4 6	49° 46'	RT. 473'	
		13 0	-6 3	52° 43'	RT. 525'	
		15.3	-8 6	54° 36'	RT. 563'	
		17 0	-10.3	56° 43'	RT. 609'	



DATUM
MEAN LOWER LOW WATER

F. B. 2823 PG. 144 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

76-L-298 CE 307 5-66

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

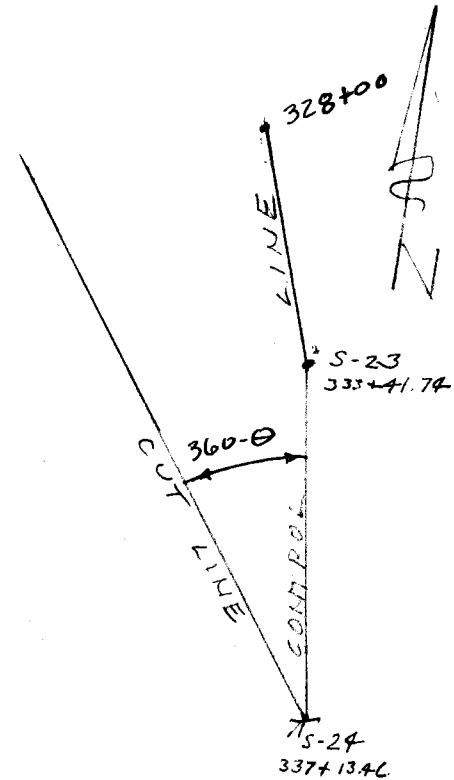
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24 337+13.46	S-23 333+41.74	10:00	1	287	14	72	46	
			2	287	43	72	17	
			3	288	01	71	59	3280014
			4	288	32	71	28	
			5	288	58	71	02	
			6	289	30	70	30	3280016
			7	290	09	69	51	
			8	290	22	69	38	
			9	290	58	69	02	3280018
			10	291	51	68	09	
			11	292	23	67	37	
			12	292	59	67	01	3280020
			13	293	20	66	40	
			14	294	01	65	59	
			15	294	46	65	14	3280022
			16	295	25	64	35	
			17	296	02	63	58	
			18	296	55	63	05	3280024
			19	297	45	62	15	
			20	298	21	61	39	
						60	56	3280026

RANGE = 328+00



Profile Notes Red. Plotted Job No. 0300.02 Division No. 11 F. B. 2823 Pg. 43

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes P.T. Date 5-22-72

No. Date Date Map No. Indexed J. M. PALMERI Date JAN 5 '72

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

F. B. 2823 Pg. 14 Profile
Job No. 0300.02 Division No. 11 Notes Red. Plotted No.
Survey of HYDRO - SURVEY Date Date X-Sec.
Survey by RICHARDS Notes R. T. Notes Chkd. Checked
Indexed T. M. PALMERI Date Date No.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
S-24	S-23							
337+13.46	333+41.74		21	299	04	~~60~~	~~56~~	
			22	299	55	60	05	
			23	300	47	59	13	
			24	301	30	58	30	3280028
			25	302	23	57	37	
			26	303	22	56	38	
			27	304	08	55	52	3280030
			28	304	55	55	05	
			29	306	18	53	42	
			30	307	36	52	24	3280046
			31	308	33	51	27	
			32	309	40	50	20	
			33	310	31	49	29	3280048
			34	311	27	48	33	
			35	312	50	47	10	
			36	314	04	45	56	3280050
			37	315	24	44	36	
			38	316	40	43	20	
			39	317	46	42	14	3280052
			40	318	44	41	16	
						39	57	
						38	10	3280054

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

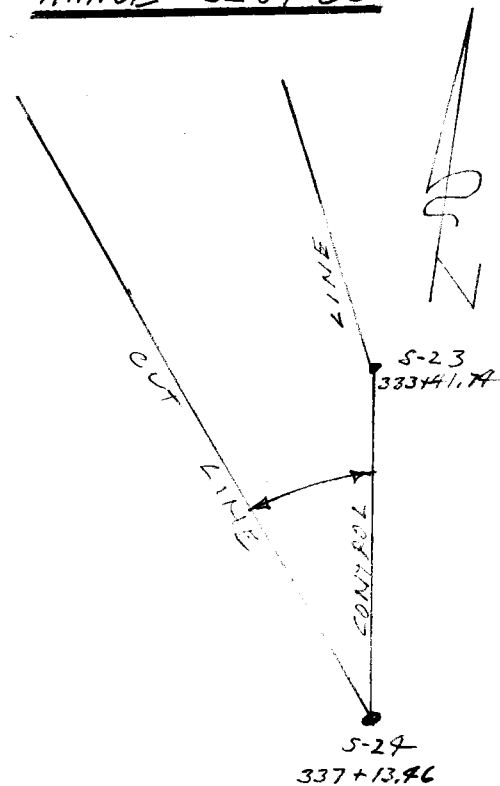
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-24 337+13.46	S-23 333+41.74		41	320	03	~~39~~	~~57~~	
			42	321	50	~~38~~	~~10~~	
			43	323	47	36	13	
			44	324	45	35	15	
			45	325	35	34	25	3280056
		10:07	46	326	46	33	14	
						00	00	
						00	00	3280058
						00	00	
						00	00	
						00	00	3280060

RANGE 328+00



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 300[illegible] Division No. [illegible] F. B. 2883 Pg. 177

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

Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-22-72

Date ____ Date ____ Map No. ____ Indexed T.M. PALMERI Date JAN 5 '72

F. B. 2823 Pg. 148 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

Do not extend notes this side of this line.

761.298 307 Cdb 12-62

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.

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

Survey of HYDROGRAPHIC SURVEY F. B. 2823 PG. 149
JN 0000.02 Tape Std. °F
Surveyed by RICHARDS
Notes HARRIET Date 5-22-72
Indexed T. M. PALMERI

TIDE GAGE READINGS
MAY 22, 1972
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	3.2
6:30	3.1
7:00	2.9
7:30	2.7
8:00	2.5
8:30	2.2
9:00	1.8
9:30	1.6
10:00	1.4
10:30	1.1
11:00	1.1
11:30	1.0
12:00	1.1
12:30	1.3
13:00	1.5
13:30	1.9
14:00	2.2

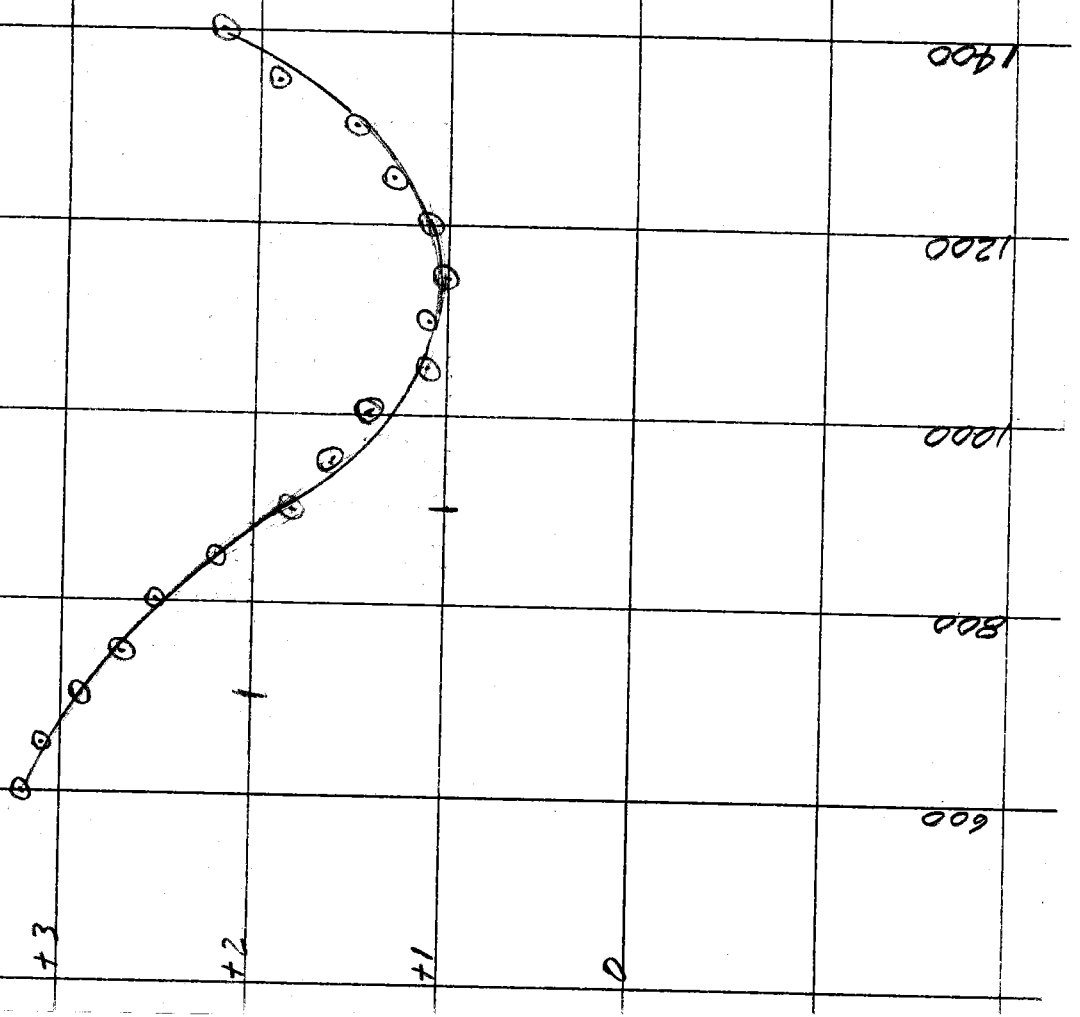
NOTE — TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.
Do not extend this side of this line.
PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.
76F309S CE#310 3-68

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



F. B. 2823 Pg. 150

76-L-298 CE 307 5-66

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

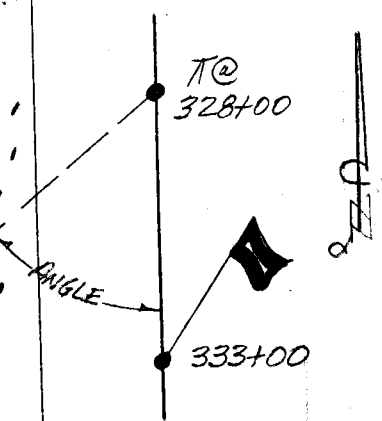
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	333+00 S	
		21 05				
TP	6 62	20 57	7 10	13 95		
333+00						℄
			0 39	20 18		6.5 R Top Cl. & Sand
			28	17 8		71 R Bk
			4 8	15 8		129 R "
			69	13 7		147 R "
			69	13 7		176 R "
			14 32	5 75		238 R 1X2

TRANSIT @ 328+00S ~ SITE ON 333+00S ~ ANGLES TO RIGHT ~ RUNNING

333+00S	0 24	5 99		5.75	238' RT. 1X2. T.P.	
			14	46	247' RT M.H.T.	
					ANGLE	
			56	04	30°-20'	RT. 293'
			6.3	-03	34°-58'	RT. 350'
			12.1	-61	43°-44'	RT. 478'
			15.4	-94	46°-11'	RT. 521'
			17 0	-110	47°-33'	RT. 547'



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 0300 Division No. 11 F.B. 2823 PG. 151
No. ____ Date ____ Date ____ Survey of HYDRO SURVEY [illegible] 5-22-72
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 152 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5.66

76L298 307 Cdb 12-62

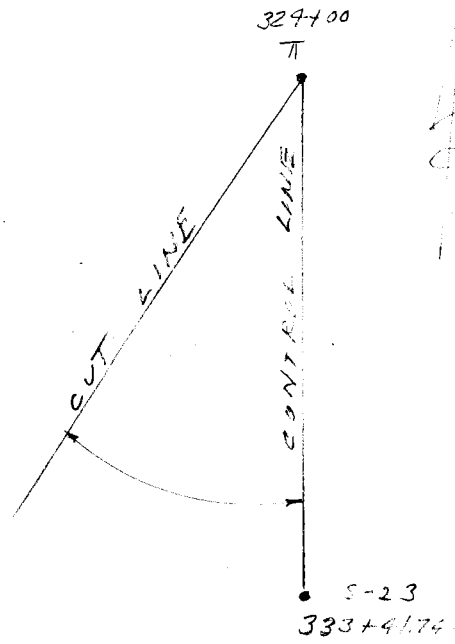
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	5-23 333+41.74	6:10	1	66	28			
			2	65	44			
			3	65	07			3330012
			4	64	20			
			5	63	41			
			6	62	57			3330014
			7	62	18			
			8	61	56			
			9	61	24			3330016
			10	60	58			
			11	60	23			
			12	59	46			3330018
			13	59	07			
			14	58	36			
			15	57	48			3330020
			16	56	59			
			17	56	06			
			18	55	26			3330022
			19	54	42			
			20	53	45			
				53	03			3330024

RANGE = 333+00



Profile Notes Red. Plotted Job No. 2300.02 Division No. 11 F. B. 2823 Pg. 153
No. Date Date Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. Checked Survey by Notes Date 5-23-72
No. Date Date Map No. Indexed M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.74		~~21~~	~~53~~	~~03~~			
			22	52	10			
			23	51	27			
			24	50	34			3330026
			25	49	35			
			26	48	28			
			27	47	30			3330028
			28	46	34			
			29	45	38			
			30	44	15			3330030
			31	42	56			
			32	41	27			
			33	39	38			3330042
			34	38	07			
			35	36	00			
			36	34	22			3330044
			37	32	34			
			38	31	08			
			39	29	24			3330046
			40	~~27~~	~~52~~			
		6:17	41	~~26~~	~~05~~			

F. B. 2823 PG. 154 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date Date No. X-Sec.

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

Indexed T. M. PALMER Date Date Date No.

76-L-298 CE 307 5-66

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

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

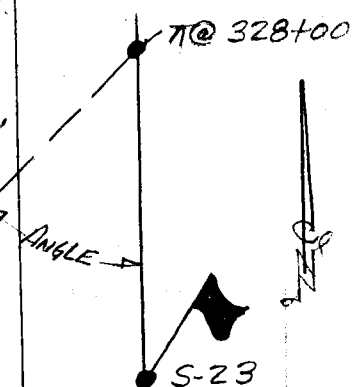
Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red ____ Date ____ Notes Chk'd ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 3500 Survey of LIVE RO SURVEY RELOCATE BENCH Survey by ____ Map No. ____ Division No. 11 Notes ____ Date 3-27-72 Indexed M. PALMERI Date JAN 5 72 F.B. 22 Pg. 1

STATION	B. S.	H. I.	F. S.	ELEV.	335+005	
		20.57				
TP 335+00	1.09	21.66	0.00	20.57		
			0.53	21.08		63 R
			2.1	19.56		7 R
			4.4	17.26		132 R
			8.4	13.26		163 R
			7.9	13.76		193 R
			15.25	5.71		257 R 1X2

TRANSIT @ 328+00 S - SITE ON S-23 ~ ANGLES TO RIGHT ~ RUNNING

335+00 S	(0.24)	5.95		5.71	257' RT.	1X2 T.P.
			1.35	4.60	263' RT	M.H.T.
					ANGLE	
			1.50	-9.0'	38°-12' OK	RT. 351'
			1.70	-11.0'	40°-28' OK	RT. 597'
			1.25	-6.5'	36°-42'	RT. 522'
			8.7	-2.7'	32°-35'	RT. 447'
			7.1	-1.1'	27°-11'	RT. 359
			5.6	0.4'	23°-38'	RT. 306



DATUM
MEAN LOWER LOW WATER

F. B. 2823 Pg. 156 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

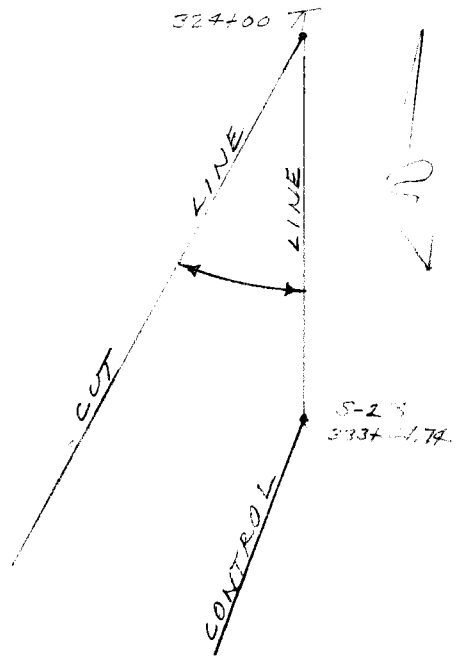
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.74	[illegible]	1	69	34			
			2	69	04			
			3	68	30			3350011
			4	67	55			
			5	66	50			
			6	66	01			3350012
			7	65	23			
			8	64	25			
			9	63	44			3350014
			10	62	55			
			11	62	03			
			12	61	05			3350016
			13	59	54			
			14	58	54			
			15	57	47			3350018
			16	56	47			
			17	55	44			
			18	54	23			3350020
			19	53	02			
			20	51	56			
				50	42			3350022

RANGE = 335+00



Profile Notes Red. ____ Plotted ____ Job No. 0300.01 Division No. 11 F. B. 2823 Pg. 157
No. ____ Date ____ Date ____ Survey of HYDRO - SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date ____

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.74		21	~~50~~	~~42~~			
			22	49	33			
			23	48	23			
			24	47	15			3350024
			25	46	13			
			26	45	00			
			27	43	38			3350026
			28	42	36			
			29	41	30			
			30	40	05			3350038
			31	38	45			
			32	37	22			
			33	36	03			3350040
			34	34	41			
			35	33	14			
			36	31	47			3350042
			37	30	30			
			38	28	55			
			39	27	17			3350042
		6:32	40	26	10			
				00 00	00 00			3350044

F. B. 2823 Pg. 158 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by RICHARDS Notes R. T. Notes Chkd. Checked X-Sec.

Indexed T. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

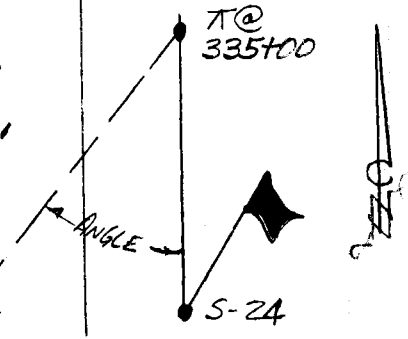
Profile No. ____ Notes Red ____ Plotted ____ Job No. 2500 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY REDONDO BEACH
Notes Chk'd ____ Checked ____ Survey by ____ Notes ____ Date 5-22-72
Date ____ Date ____ Map No. ____ Index No. ____ Date ____ Date JUN 5 '72
Ted M. PALMERI

F.B. 2800 PG. 152

338+00 S

STATION	B. S.	H. I.	F. S.	ELEV.		
		21 62				
TP	4 55	26 05	0 16	2150		
BM 524			4 09	21 97	BM 524 El 21.91 FB 2100	
	0 66	22 57		21 91		
338+00						℄
			0 12	22 45		7' R Tan Co
			11	21 5		7' R sand
			29	19 7		81' R Brk
			72	15 4		156 R "
			9.0	13 6		178 R "
			10 3	12 3		206 R "
			17 75	4.82		270 R 1X2
TRANSIT @ 335+00 S ~ SITE ON S-24 ~ ANGLES TO RIGHT ~ RUNNING						
338+00 S	0 68	5 50		482	270' RT. 1X2"	
			09	460	271½ RT M.H.T.	
					ANGLE	
			5.8	-03	46°27'	RT. 316'
			6.9	-1 4	50°13'	RT. 360
			7.6	-2 1	54°18'	RT 417
			11 4	-5.9	58°03'	RT 481
			14 4	-8 9	59°57'	RT. 519
			17 0	-11 5	62°40'	RT 580'

DATUM
MEAN LOWER LOW WATER



F. B. 2823 Pg. 160 Job No.____ Division No.____ Notes Red____ Plotted____ Profile

Survey of____ Date____ Date____ No.____

Survey by____ Notes____ Notes Chk'd.____ Checked____ X-Sec.

Indexed____ Date____ Date____ Date____ No.____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

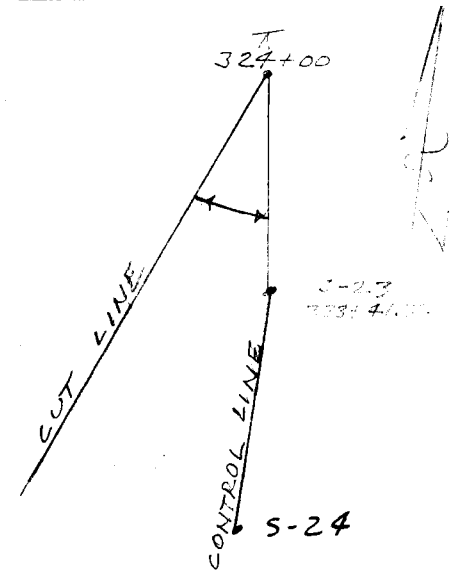
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.74	6'45	1	55	40			
			2	54	46			
			3	53	57			3380016
			4	53	06			
			5	52	26			
			6	51	48			3380018
			7	50	48			
			8	49	47			
			9	49	00			3380020
			10	48	14			
			11	47	12			
			12	45	47			3380022
			13	44	43			
			14	43	46			
			15	42	57			3380024
			16	41	36			
			17	40	14			
			18	38	48			3380026
			19	37	49			
			20	36	34			
				35	19			3380028

RANGE = 338+00



Profile Notes Red. Plotted Job No. 1300.02 Division No. 11 F. B. 2823 Pg. 161

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by R. [illegible] Notes R. T. Date 5-23-72

No. Date Date Map No. Indexed M. PALMER Date JAN 5 72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	5-23 303+41.74		21	~~35~~	~~17~~			
			22	34	16			
			23	33	00			
			24	31	44			3380030
			25	30	20			
			26	29	15			
			27	28	21			3380032
			28	27	14			
			29	26	25			
			30	25	24			3380034
			31	24	15			
			32	23	15			
			33	22	12			3380036
			34	21	14			
		6:50	35	20	24			
				00	00			3380038
				00	00			
				00	00			
				00	00			3380040

F. B. 2823 PG. 162 Job No. 300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No. X-Sec.

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

Indexed T. M. PALMERI Date Date No.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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 Division No. 11
No. ____ Date ____ Date ____ Survey of HYKD SURVEY RECORD 5-22-72
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Index ____ Checked M. PALMERI Date JUN 5 72

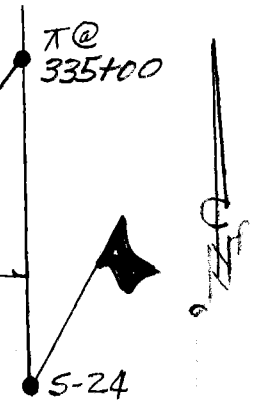
F. B. 2800 PG. 12

340+50 S

STATION	B. S.	H. I.	F. S.	ELEV.		
		22 57				
340+50 S.						
			2 22	20 35		126 R TCP Co Line
			5 1	17 5		70 C Brk
			8 0	14 6		125 R "
			9 9	12 7		143 R "
			10 3	12 6		184 R "
			17 3	5 3		239 R "

TRANSIT @ 335+00 S ~ SITE ON S-24 ~ ANGLES TO RIGHT ~ RUNNING

340+50 S						
	0 2	5 5		5 3	239' RT. 1X2"	
			0 9	4 6	244.5 RT. M.H.T.	
					ANGLE	
			17 5	-12 0	46°-43'	RT. 584'
			15.0	-9 5	44°-00'	RT. 531'
			10 2	-4 7	39°-54'	RT. 460' ← ANGLE
			6.3	-0 8	35°-00'	RT. 385'
			5 9	-0 4	29°-30'	RT 311'



DATUM
MEAN LOWER LOW WATER

F. B. 2823 PG. 164 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76S420A - CE 353A - Cdb 9-62

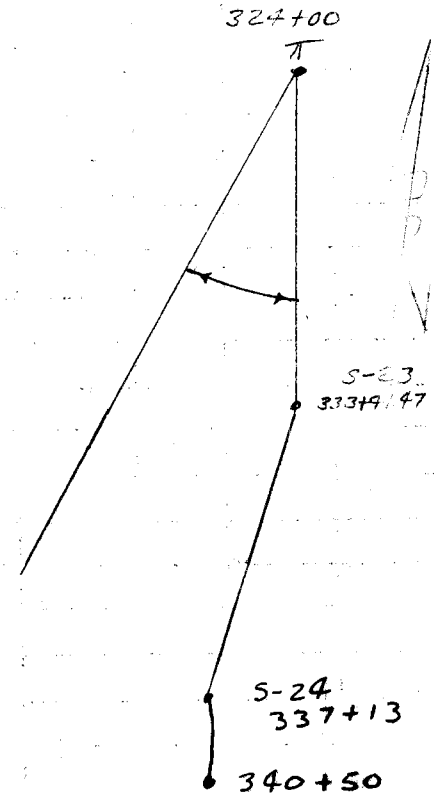
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.47	7:03	1	56	58			
			2	56	11			
			3	55	28			3405016
			4	54	45			
			5	54	08			
			6	53	22			3405018
			7	52	42			
			8	51	52			
			9	51	01			3405020
			10	50	01			
			11	49	09			
			12	48	15			3405022
			13	47	34			
			14	46	26			
			15	45	21			3405024
			16	44	06			
			17	43	12			
			18	42	20			3405026
			19	41	22			
			20	40	25			
				39	35			3405028

RANGE = 340+50



Profile Notes Red. ____ Plotted ____ Job No. 03M0.02 Division No. 11 F. B. 2823 Pg. 165
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes P. ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Index T. M. PALMERI Date 5-72

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.47		~~21~~	~~39~~	~~35~~			
			22	38	42			
			23	37	59			
			24	36	59			3405030
			25	36	02			
			26	35	12			
			27	34	19			3405032
			28	33	20			
			29	32	34			
			30	31	45			3405046
			31	30	58			
			32	29	55			
			33	28	45			3405048
			34	27	45			
			35	26	14			
			36	25	17			3405050
			37	24	06			
			38	23	01			
			39	21	49			3405052
			40	~~20~~	~~52~~			
			41	~~19~~	~~46~~			

F. B. 2823 Pg. 166 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date Date No.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.

Indexed T. M. PALMER Date Date Date No.

76S420A • CE 353A • Cdb 9-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

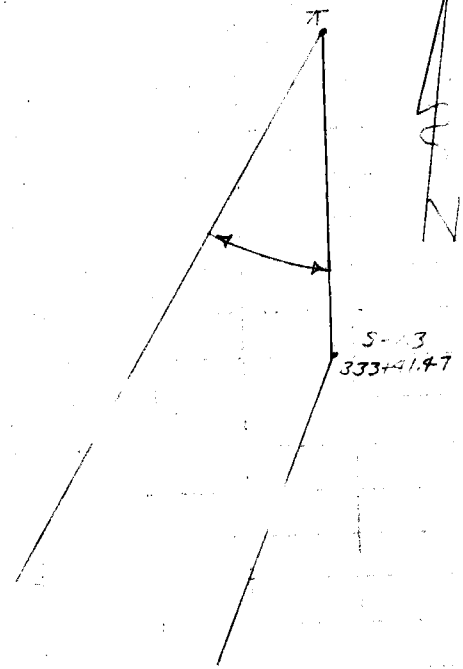
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.47		42	20	52			
			43	19	46			
		7:09	~~44~~	18	42			3405054
				17	40			
				17	08			
				00	00			3405056
				00	00			
				00	00			
				00	00			3405058

RANGE = 340+50 (CONT)



Profile Notes Red. Plotted Job No. 03DC02 Division No. 11 F. B. 2823 Pg. 167

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 5-23-72

No. Date Date Map No. Index Id. M. PALMER Date 5 72

F. B. 2823 Pg. 168 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

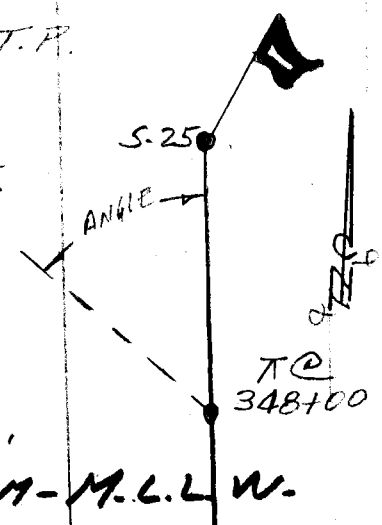
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	343+00 S
BM S24	2.81	24.72		21.91	BM S24 El = 21.91 FB 2100-15
TP	0.30	19.08	5.94	18.78	
343+00			1.6	17.5	℄
			4.0	15.1	96' K
			6.2	12.9	145 R
			10.5	8.6	180 R 1X2
			0.9	19.2	50' L Bot Bank

TRANSIT @ 348+00 S ~ SITE ON S-25 ~ ANGLES TO LEFT ~

RUNNING 343+00 S

0.2	88		86	180' RT. 1X2 T.P.	
		4.0	48	T.P.	
1.4	62		48		
		1.6	46	209' RT. M.H.T.	
				ANGLE	
		4.5	1.7	22°-48'	LT 210
		6.7	-0.5	27°-23'	LT. 259
		10.6	-4.4	34°-59'	LT. 350
		12.4	-6.2	34°-10'	LT. ?
		17.5	-11.3	43°-15'	LT. 470'



DATUM - M.L.L.W.

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2823 PG. 169
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY-REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMER Date JUN 5 72

F. B. 2823 PG. 170 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76S420A - CE 353A - Cdb 9-62

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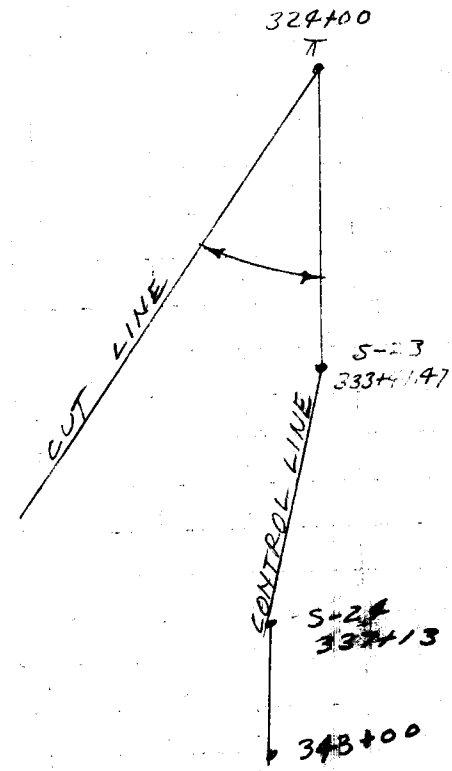
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
324+00	S-23 333+41.47	7:22	1	51	27			
			2	50	53			
			3	50	01			3430016
			4	49	16			
			5	48	34			
			6	47	46			3430018
			7	47	05			
			8	46	30			
			9	45	31			3430020
			10	44	34			
			11	43	56			
			12	43	04			3430022
			13	42	10			
			14	40	44			
			15	39	43			3430024
			16	37	01			
			17	35	14			
			18	34	17			3430026
			19	32	34			
			20	31	27			
				30	29			3430028

RANGE = 343+00



Profile Notes Red. Plotted Job No. 030602 Division No. 11 F. B. 2873 Pg. 171
No. Date Date Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. Checked Survey by R.K. HARDS Notes R.T. Date 5-23-72
No. Date Date Map No. Indexed M. PALMERI Date 5 72

F. B. 2823 Pg. 172 Job No. 6300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No. X-Sec.

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

Indexed J. M. PALMERI Date Date No.

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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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
324+00	5·23 33+41.47		21	30	29			
			22	29	30			
			23	28	09			
			24	26	38			3430030
			25	25	37			
			26	24	12			
			27	23	18			3430032
			28	22	21			
			29	21	46			
			30	20	50			3430034
			31	19	48			
			32	18	47			
			33	17	38			3430036
			34	17	10			
			35	16	12			
		7/28	36	15	47			3430038
				00	00			
				00	00			
				00	00			3430040

76-L-298 CE 307 5-66

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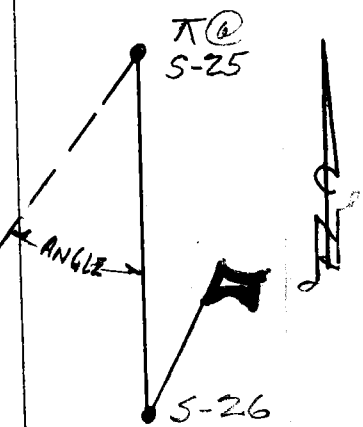
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	348+00	
						DATUM-M.L.L.W.
		19 08				
TP	2 13	18 25	2 96	16 12		
348+00			4 1	14 15		℄
			4 9	13 35		122 R BK
			5 7	12 55		140 R
			9 2	9 25		164 R 1X2
			3 7	14 55	17 5 L Bot Bank	
TRANSIT @ S-25 ~ SITE @ S-26 ~ ANGLES TO RT ~ RUNNING						
348+00S						
	0 7	9 7		9 0	164' RT. 1X2 T.P	
	1 3	66	4 4	5 3	T.P.	
			2 0	4 6	195' RT. M.H.T.	
					ANGLES	
			8.1	-1 5	32°40'	RT. 242'
			8 1	-1 5	38°05'	RT. 296'
			9 0	-2 4	41°51'	RT 338
			12 8	-6 2	47°35'	RT. 413
			17 6	-11 0	52°52	RT. 499



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2823 PG. 173
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5/23/72
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
J. M. PALMERI

F. B. 2823 PG. 174 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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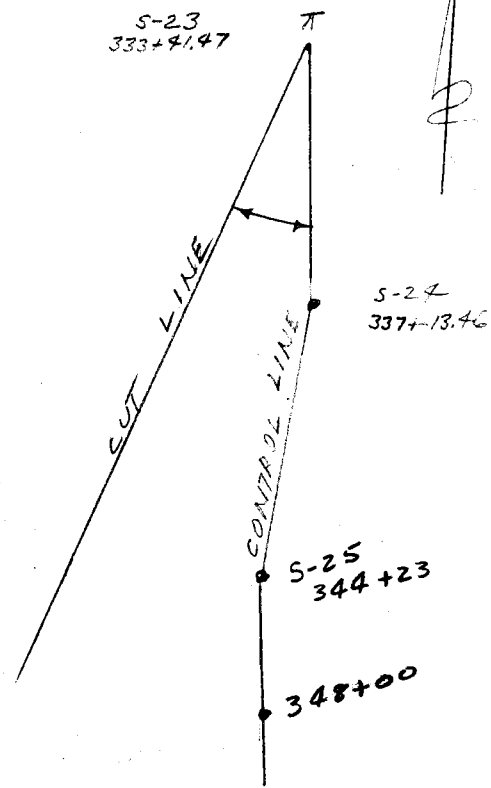
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-23 333+41.47	S-24 337+13.46	8:07	1	54	44			
			2	54	01			
			3	53	27			3480016
			4	52	41			
			5	52	11			
			6	51	34			3480018
			7	49	21			
			8	48	32			
			9	47	27			3480020
			10	46	36			
			11	45	47			
			12	44	45			3480022
			13	43	49			
			14	42	52			
			15	41	41			3480024
			16	40	39			
			17	39	40			
			18	38	43			3480026
			19	37	31			
			20	36	46			
				35	34			3480028

RANGE = 348+00



Profile Notes Red. ____ Plotted ____ Job No. 2800 02 Division No. ____ F. B. 2823 Pg. 175
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by SICHARDS Notes R.T. Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date JAN 5 70

F. B. 2823 PG. 176 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO - SURVEY Date _____ Date _____ No. _____

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

Indexed T. M. PALMERI Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-23 333+41.97	S-24 337+13.96		21	35	34			
			22	34	27			
			23	33	05			
			24	31	47			3480030
			25	30	30			
			26	29	12			
			27	27	50			3480032
			28	26	20			
			29	25	04			
			30	23	59			3480034
			31	22	56			
			32	21	56			
			33	20	56			3480036
			34	20	16			
			35	19	19			
		8:13	36	17	44			3480038
				00	00			
				00	00			
				00	00			3480040

76-L-298 CE 307 5-66

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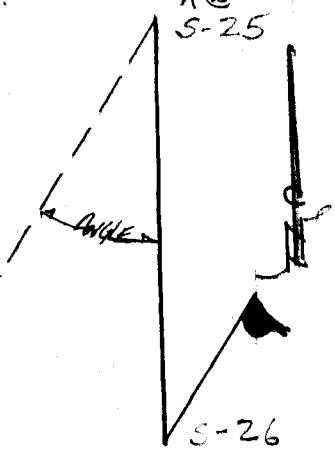
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	353+00S	
						DATUM - M.L.L.W.
		18 25				
TP	1 42	18 63	1 04	17 21		
353+00S			3 0	15 6	12³ L Bot Bank	
			4 0	14 6		℄
			4 5	14 1		43 R
			4 7	13 9		120 R Brk
			8 0	10 6		147 R 1X2
- TRANSIT @ S-25 ~ SITE ON S-26 ~ ANGLES TO RIGHT ~ RUNNING						
353+00S						
	2 3	129		106	147' RT. 1X2 T.P.	
	2 8	83	7 4	55	T.P.	
			3 7	4 6	195' RT. M.H.T.	
					ANGLE	
			7 8	05	14°-30'	RT. 227'
			9 2	-0 9	18°-38'	RT. 296'
			13 5	-5 2	23°-20'	RT. 379
ESTIMATED			18 0	-9 7	27°-49'	RT. 463'



Profile Notes Red ____ Plotted ____ Job No. 03005 2 Division No. 11 F. B. 2823 PG. 177
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JAN 5 '72

F. B. 2823 PG. 178 | Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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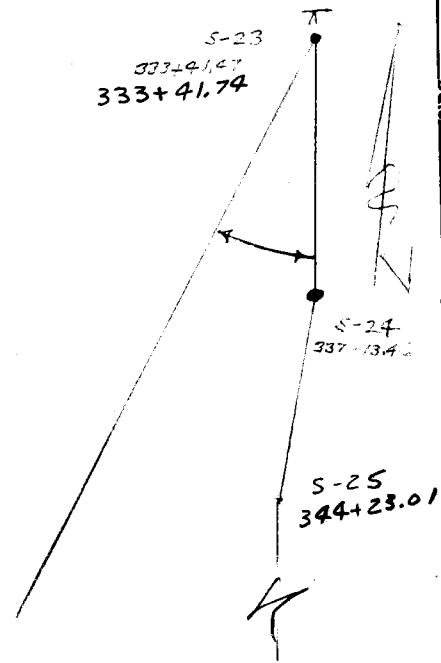
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-23 333+41.47	S-24 337+13.46	8:28	1	42°	38			
			2	42°	05			
			3	41	11			3530016
			4	40	10			
			5	39	25			
			6	38	33			3530018
			7	37	49			
			8	36	45			
			9	35	52			3530020
			10	34	56			
			11	34	06			
			12	32	57			3530022
			13	31	59			
			14	30	59			
			15	30	02			3530024
			16	29	03			
			17	28	16			
			18	27	10			3530026
			19	26	04			
			20	25	06			
				24	00			3530028

RANGE = 353+00



Profile Notes Red. Plotted Job No. 2[illegible] Division No. 11 F. B. 2823 Pg. 179
No. Date Date Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R. T. Date 5-23-72
No. Date Date Map No. Index To M. PALMERI Date 5-7-72

76L298 307 Cdb 12-62

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S-23 333+41.47	S-24 337+13.46		21	~~24~~	~~00~~			
			22	23	12			
			23	22	11			
			24	21	31			3530030
			25	20	50			
			26	19	56			
			27	18	99			3530046
			28	18	25			
			29	17	46			
			30	17	00			3530048
			31	16	18			
			32	15	47			
			33	15	09			3530050
			34	14	14			
			35	13	38			
			36	12	55			3530052
			37	12	20			
		8'37	38	11	57			
				00	00			3530054
				00	00			
				00	00			
				00	00			3530056

F. B. 2823 PG. 180 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDROL - SURVEY Date Date No.

Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.

Indexed T. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

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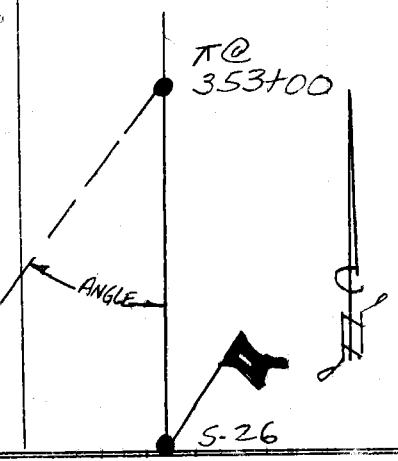
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	358+00	
		18 63				DATUM-M.L.L.W.
TP	0 68	19 06	0 25	18 38		
358+00S			1 7	17 4	27 L Bot Bank	
			3 1	16 0	12 L Brk	
			3 7	15 4		℄
			4 8	14 3		56 R
			5 6	13 5		98 R Brk
			5 0	14 1		122 R Brk
			10 9	8 2		174 R 1x2
TRANSIT @ 353+00 ~ SITE ON S-26 ~ ANGLES TO RIGHT ~ RUNNING						
358+00 S						
	3 8	12 0		8 2	174' RT. 1x2 T.P.	
	3 0	72	7 8	4.2		
			2 6	4 6	199' RT. M.H.T.	
					ANGLE	
			8 5	-1 3	26°-21'	RT. 248'
			8 2 OK	-1 0	30°-58'	RT. 300'
			11.0	-3 ~~4~~ 8	37°-04'	RT. 378'
			15 9	-8 7	42°-07'	RT. 452'
	ESTIMATED		19 0	-11.8	45°-46'	RT. 514'



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5 2 72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JAN 5 72

F. B. 2823 PG. 181

F. B. 2823 Pg. 182 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

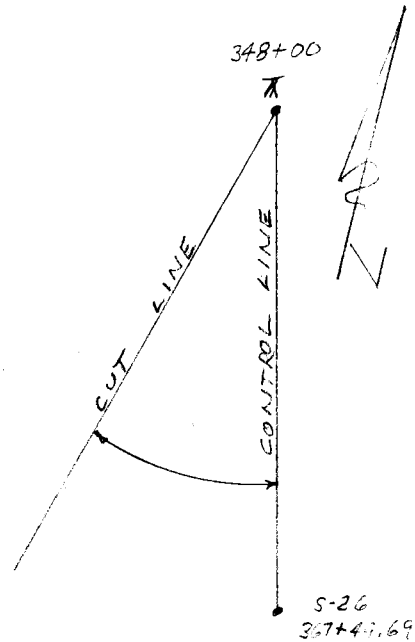
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	S-26 367+44.69	9:25		62	52			
			2	62	14			
			3	61	24			3580012
			4	60	40			
			5	59	48			
			6	58	55			3580014
			7	58	00			
			8	57	09			
			9	56	30			3580016
			10	55	34			
			11	54	57			
			12	54	10			3580018
			13	53	01			
			14	52	12			
			15	51	14			3580020
			16	50	14			
			17	49	13			
			18	48	06			3580022
			19	46	54			
			20	45	41			
				43	53			3580024

RANGE = 358+00



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

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72

No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date 5 72

F. B. 2823 Pg. 183

76L298 307 Cdb 12-62

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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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	5-26 367+44.69		21	~~43~~	~~53~~			
			22	42	36			
			23	41	24			
			24	40	20			3580026
			25	39	15			
			26	37	43			
			27	36	35			3580028
			28	35	01			
			29	33	58			
			30	32	44			3580030
			31	31	44			
			32	30	15			
			33	28	54			3580032
			34	27	45			
			35	26	29			
		9:30	36	25	26			3580034
				00	00			
				00	00			
				00	00			3580036

F. B. 2823 PG. 184

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

Survey of HYDRO. SURVEY Date Date No. X-Sec.

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

Indexed T. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

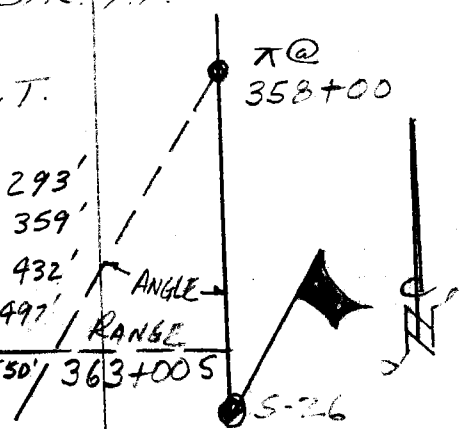
363+00

DATUM-M.L.L.W.

STATION	B. S.	H. I.	F. S.	ELEV.		
		19 06				
TP	0 80	18 51	1 35	17 71		
363+00 S			3.9	14 6	17 L Bot Bank	
			4 3	14 2		℄
			5.7	12 8		86 R Brk
			5.9	12 6		126 R Brk
			5 1	13 4		152 R Brk
			10 5	3 0		193 R [illegible]

TRANSIT @ 358+00 ~ SITE ON S-26 ~ ANGLES TO RT. ~ RUNNING
363+00 S

	3 0	11 0		8 0	198' RT. 1X2 STK. T.P.	
	1 1	61	6 0	5.0	T.P.	
			1 5	4 6	228' RT. M.H.T.	
					ANGLE	
			7.5	-1 4	30°21'	RT. 293'
			8.0	-1 9	35°40'	RT. 359'
			12 0	-5 9	40°50'	RT. 432'
			15 5	-9 4	44°50'	RT. 497'
			18 0	-11 9	47°43'	RT. 550'



Profile Notes Red ____ Plotted ____ Job No. 030002 Division No. 11 F.B. 2823 Pg. 185
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Index Id M. PALMERI Date JUN 5 '72

F. B. 2823 PG. 186 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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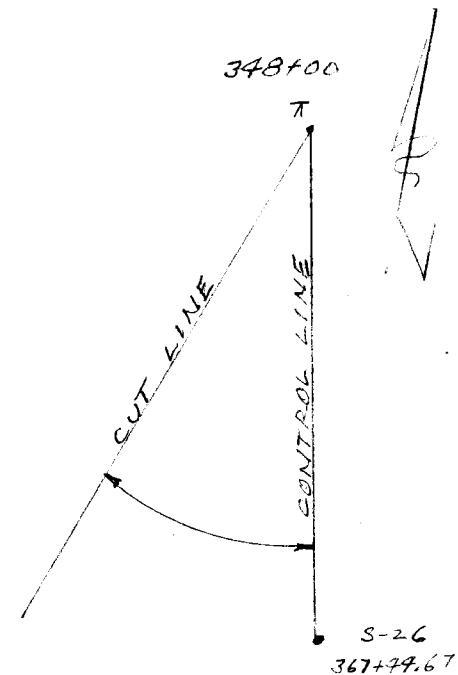
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	S-26 367+44.67	9:42	1	51	43			
			2	50	35			
			3	49	36			3630012
			4	48	53			
			5	48	12			
			6	47	34			3630014
			7	46	57			
			8	46	19			
			9	45	21			3630016
			10	44	43			
			11	43	57			
			12	43	17			3630018
			13	42	37			
			14	41	57			
			15	41	13			3630020
			16	40	37			
			17	39	47			
			18	39	10			3630022
			19	38	32			
			20	37	35			
				36	50			3630024

RANGE = 363+00



Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 11 F. B. 2823 Pg. 187
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date ____

76L298 307 Cdb 12-62

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F. B. 2823 PG. 188 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes R. T. Notes Chkd. Checked X-Sec.
Indexed T. M. PALMERI Date Date Date No.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY: RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	S-26 367+44.69		21	~~36~~	~~50~~			
			22	36	11			
			23	35	22			
			24	34	37			3630026
			25	33	29			
			26	32	40			
			27	31	00			3630028
			28	30	34			
			29	30	05			
			30	29	14			3630038
			31	28	07			
			32	27	13			
			33	26	16			3630040
			34	25	21			
			35	24	28			
			36	23	38			3630042
			37	~~22~~	~~41~~			
			38	~~21~~	~~53~~			
			~~39~~	~~20~~	~~45~~			
			~~40~~	~~19~~	~~27~~			
			~~41~~	~~18~~	~~59~~			
			~~42~~	~~18~~	~~12~~			
		9:47	43	~~17~~	~~05~~			

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

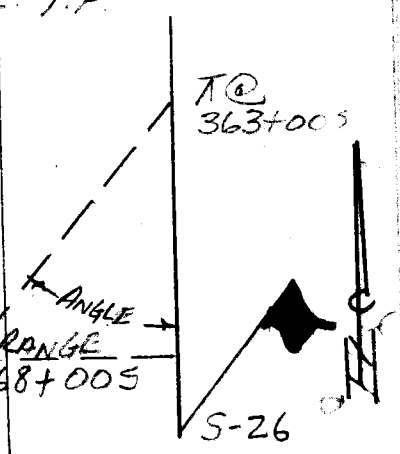
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	368+00S	
						DATUM-M.L.L.W.
		18 51				
TP	152	19 66	037	13 14		
368+00S			39	15 8	20 L Bot Bank	
			44	15 3		℄
			57	14 0		44 R
			52	14 5		96 R
			53	14 4		164 R Bnk
			105	9 2		215 R 1X2

TRANSIT @ 363+00S SITE ON S-26 ~ ANGLES TO RIGHT ~ RUNNING

STATION	B. S.	H. I.	F. S.	ELEV.		
368+00S						
	19	111		9 2	215 RT. 1"X2" STK. T.P.	
	22	66	67	4.4	T.P.	
			20	4 6	249.5 RT. M.H.T.	
					ANGLE	
			64	0.2	34°-13'	RT. 340'
			77	-1 1	38°-35	RT 399'
			124	-5 8	45°-00'	RT. 500
			172	-10 6	49°-52'	RT 593'



Profile Notes Red ____ Plotted ____ Job No. 0300,52 Division No. 11 F.B. 2823 PG. 189
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date 5 72

F. B. 2823 PG. 190 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

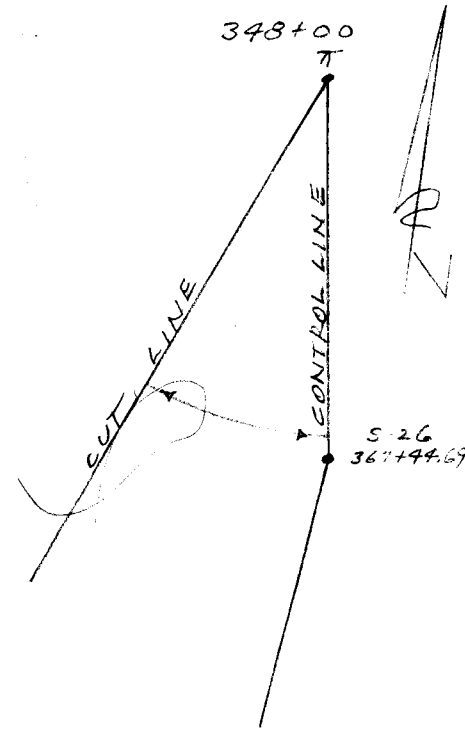
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	S-26 367+44.69	9:58	1	42	51			
			2	41	37			
			3	40	51			3680014
			4	40	12			
			5	39	21			
			6	38	40			3680016
			7	37	44			
			8	37	08			
			9	36	14			3680018
			10	35	22			
			11	34	40			
			12	33	44			3680020
			13	32	52			
			14	32	00			
			15	30	58			3680022
			16	29	52			
			17	28	56			
			18	27	44			3680024
			19	26	59			
			20	26	04			
				24	45			3680026

RANGE = 368+00



Profile Notes Red. ____ Plotted ____ Job No. 5300.02 Division No. 11 F. B. 2823 Pg. 191

No. ____ Date ____ Date ____ Survey of HYDRO SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72

No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date ____

76L298 307 Cdb 12-62

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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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
348+00	5-26 367+44.69		~~21~~	~~24~~	~~45~~			
			22	23	50			
			23	22	55			
			24	21	41			3680028
			25	21	02			
			26	20	10			
			27	19	01			3680030
			28	18	24			
			29	17	46			
			30	17	01			3680032
			31	16	07			
			32	15	40			
			33	14	57			3680034
		10:03	34	14	37			
				00	00			
				00	00			3680036
				00	00			
				00	00			
				00	00			3680038

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

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

Division No. 11 Job No. 0300.02

Survey of HYDRO - SURVEY

Survey by RICHARDS Notes R.T.

Indexed T. M. PALMER Date ____

F. B. 2823 Pg. 192

76-L-298 CE 307 5-66

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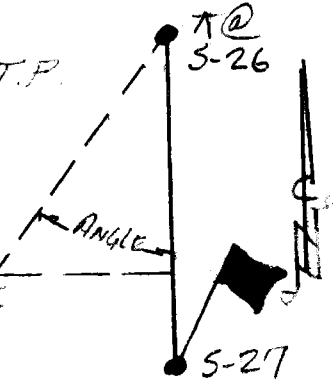
403 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	373+00	
						DATUM—M.L.L.W.
		19 66				
TP	394	23 06	054	19 12		
TBM #2			157	21 49	TBM #2 E.L. 21,317 F.B. 2100-155	
	157	22 89		21 32		
T.P	159	19.55	4 93	17.96		
373+00 S			31	165	61' L Bot Bank	
			45	151	45' L Brk	
			50	146		℄
			60	136		75' R Brk
			53	143		12.1' R Brk
			117	79		178 R 1X2
TRANSIT @ S-26 ~ SITE ON S-27 ~ ANGLES TO RIGHT ~ RUNNING						
373+00 S						
	32	111		79	178' RT. 1"X2" STK. T.P.	
	08	63	56	55	T.P.	
			1.7	46	204' RT. M.H.T.	
					ANGLE	
			6.5	-02	24°55'	RT. 247
			93	-30	32°46'	RT. 358
			130	-6.7	36°29'	RT. 411
			173	-110	40°53'	RT. 481



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 2823 PG. 193
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JAN 5 '72

F. B. 2823 PG. 194 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

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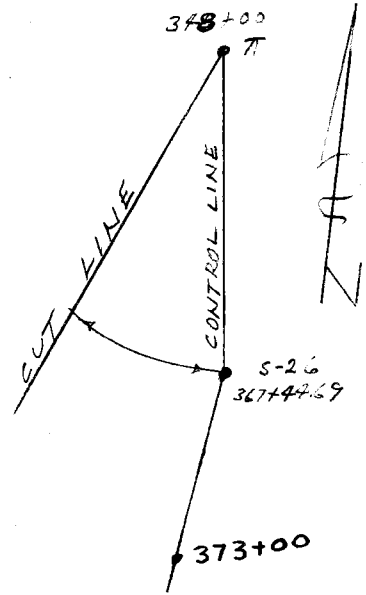
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
348+00	S-26 367+44.69	10:15	1	42	54			
			2	42	12			
			3	41	28			3730014
			4	40	51			
			5	40	15			
			6	39	37			3730016
			7	39	02			
			8	38	28			
			9	37	51			3730018
			10	37	13			
			11	36	32			
			12	35	56			3730020
			13	35	21			
			14	34	34			
			15	33	52			3730022
			16	33	06			
			17	32	23			
			18	31	17			3730024
			19	30	27			
			20	29	26			
				28	30			3730026

RANGE = 373+00



Profile No.____ Notes Red.____ Plotted____ Job No. 12000 Division No. 11
X-Sec. No.____ Date____ Date____ Survey of HYDRO-SURVEY
Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 5-23-72
Date____ Date____ Map No.____ Indexed M. PALMERI Date 5 72

F. B. 2823 Pg. 195

76L298 307 Cdb 12-62

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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.

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
348+00	S-26 367+44.69		~~21~~	~~28~~	~~30~~			
			22	27	40			
			23	26	52			
			24	25	51			3730028
			25	24	50			
			26	23	56			
			27	23	05			3730030
			28	21	55			
			29	20	59			
			30	20	05			3730046
			31	19	04			
			32	18	19			
			33	17	28			3730048
			34	16	32			
			35	15	44			
			36	14	50			3730050
			37	14	00			
			38	13	06			
		10:20	39	12	44			3730052
				00	00			
				00	00			
				00	00			3730054

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red Date Notes Chkd. Date
Division No. 11 Job No. 2300.02
Survey of HYDRO-SURVEY
Survey by RICHARDS Notes R. T.
Indexed T. M. PALMERI Date
F. B. 2823 Pg. 196

76-L-298 CE 307 5-66

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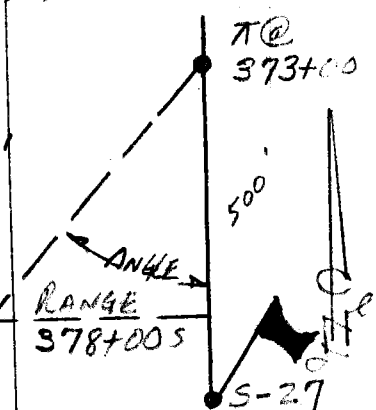
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
Notes Chk'd. ____ Date ____ Checked ____ Date ____ Survey by ____ Date 5-23-72
Map No. ____ Date ____ Notes ____ Index No. ____ Date JUN 5 72
F. B. 2822 Pg. 197

STATION	B. S.	H. I.	F. S.	ELEV.	378+00S DATUM-M.L.L.W.
		19 55			
TP	3 08	19 84	2 79	16 76	
373+00S			4 0	15 8	58'L Bot Bank
			5 0	14 8	℄
			5 3	14 5	37'R Bnk
			4 6	15 2	30'R Bnk
			5 7	14 1	118'R Bnk
			11 3	8 5	175'R IX2
TRANSIT @ 373+00 S ~ SITE ON S-27 ~ ANGLES TO RIGHT ~					
RUNNING 378+00 S					
	21	10 6		8.5	175' RT. IX2 STK. T.P.
	18	50	7.4	3.2	T.P.
			04	46	201.5 RT. M.H.T.
					ANGLE
			56	-06	28°-40' RT. 273'
			66	-16	31°-42' RT. 309'
			9.5	-45	36°-23' RT. 368'
			121	-71	41°-08' RT. 437'
			16.5	-115	45°-29' RT. 509'



F. B. 2823 Pg. 198 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

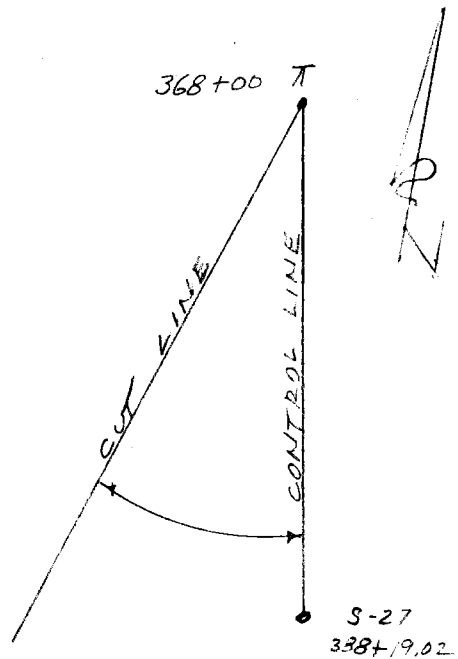
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
368+00	S-27 388+19.02	10:46	1	67	04			
			2	66	35			
			3	65	54			[illegible]
			4	65	04			
			5	64	31			
			6	63	56			3780014
			7	63	13			
			8	62	34			
			9	61	55			3780016
			10	61	00			
			11	60	31			
			12	60	08			3780018
			13	59	30			
			14	59	00			
			15	58	21			3780020
			16	57	30			
			17	56	59			
			18	56	24			3780022
			19	55	38			
			20	54	56			
				54	09			3780024

RANGE = 378+00



Profile Notes Red. ____ Plotted ____ Job No. 0300.07 Division No. 11 F. B. 2823 Pg. 199

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72

No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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

Do not extend notes this side of this line.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
368+00	5-27 388+19.02		~~21~~	~~54~~	~~09~~			
			22	53	30			
			23	52	40			
			24	51	59			3780026
			25	51	19			
			26	50	32			
			27	49	47			3780028
			28	49	03			
			29	47	54			
			30	47	06			3780030
			31	46	15			
			32	45	01			
			33	43	44			3780044
			34	42	21			
			35	40	36			
			36	39	12			3780046
			37	37	34			
			38	37	03			
			39	35	03			3780048
			40	33	04			
			41	31	56			

F. B. 2823 Pg. 200 Job No. 02300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed J. M. PALMERI Date Date Date No.

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

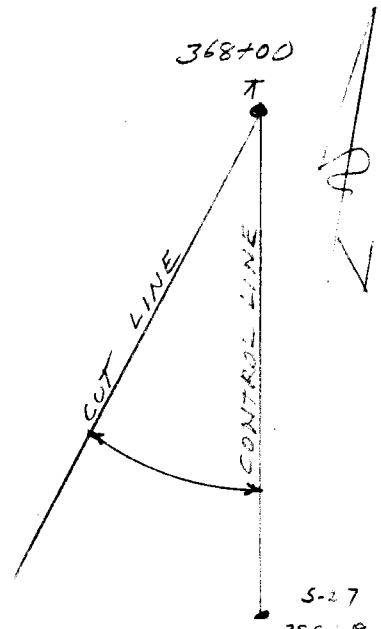
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
368+00	5-27 388+19.02		42	30	48			3780050
			43	28	33			
			44	27	30			
			45	26	24			3780052
			46	24	05			
		10:53	47	22	44			
				00	00			3780054
				00	00			
				00	00			
				00	00			3780056

RANGE = 378+00
(CON'T)



Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2823 Pg. 201

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72

No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date 5 72

F. B. 2823 PG. 202 Job No. 300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO- SURVEY Date _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No. _____

Inst. At	Sight On	Time	Angle No	Hor. Angle Deg.	Hor. Angle Min.	For Office Use Only Range Line Deg.	For Office Use Only Range Line Min.	For Office Use Only Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					

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 Cdb 12-62

76-L-298 CE 307 5-66

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

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

Do not extend notes this side of this line.

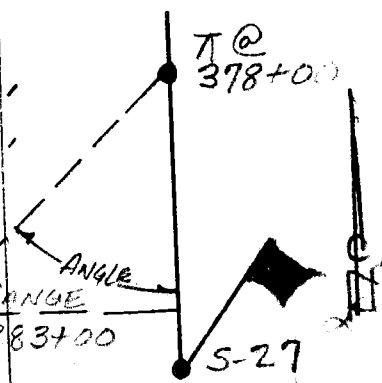
383+00S

DATUM-M.L.L.W.

STATION	B. S.	H. I.	F. S.	ELEV.	
		19 84			
TP	2 35	18 94	3 25	16 59	
383+00S			07	18 2	59' L. Bot Bank
			3 9	15 5	27' L Brk
			4 6	14 3	℄
			3 8	15 1	100' ℄ Brk
			6 3	12 6	43 ℄ "
			10 8	8 1	185 ℄ [illegible]

TRANSIT @ 378+00 ~ SITE ON S-27 ~ ANGLES TO RIGHT ~
RUNNING 383+00S

	21	10 2		81	185' RT. 1x2 STK. [illegible]
	11	60	53	49	
			14	46	210' RT. M.H.T.
					ANGLE
			6.8	-0 8	27°-48' RT. 263'
			8 4	-2.4	35°-12' RT. 353'
			11 4	-5.4	40°-04' RT. 421'
			14 0	-8 0	43°-39' RT. 477'
			16 7	-10 7	46°-29' RT. 527 RANGE 383+00



Profile Notes Red ____ Plotted ____ Job No. 0300.02 Division No. 11 F.B. 2823 PG. 203
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Index Td M. PALMERI Date JM 5 '72

F. B. 2823 PG. 204 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

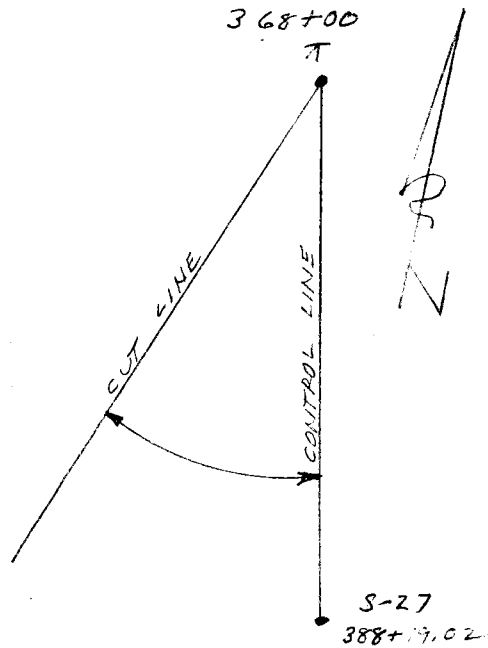
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
368+00	S-27 388+19.02	11:02	1	55	41			
			2	55	12			
			3	54	30			3830012
			4	53	34			
			5	52	47			
			6	52	08			3830014
			7	51	01			
			8	50	06			
			9	49	15			3830016
			10	48	46			
			11	48	08			
			12	47	23			3830018
			13	46	37			
			14	45	41			
			15	44	56			3830020
			16	43	57			
			17	43	08			
			18	42	20			3830022
			19	41	28			
			20	40	33			
				39	28			3830024

RANGE = 383+00



Profile No. ____ Notes Red. ____ Plotted ____ Job No. 830002 Division No. 4 F. B. 2823 Pg. 205
X-Sec. No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-23-72
Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
368+00	5.27 388+19.02		~~21~~	~~39~~	~~28~~			
			22	38	39			
			23	37	51			
			24	36	51			3830026
			25	35	54			
			26	34	52			
			27	33	45			3830028
			28	32	44			
			29	31	45			
			30	30	38			3830030
			31	29	20			
			32	28	03			
			33	26	54			3830044
			34	25	34			
			35	24	19			
			36	22	59			3830046
			37	21	40			
			38	20	29			
			39	19	06			3830048
		~~11:07~~	~~40~~	~~17~~	~~44~~			

10 3/12

F. B. 2823 PG. 206 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile
Survey of HYDRO-SURVEY Date Date No.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked X-Sec.
Indexed I. M. PALMERI Date Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURVEY
Map No.	JN 2300.02 Tape Std °F
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 5-23-72
Date	Indexed T. M. PALMERI JUN 5 '72

F. B. 1823 PG. 207

TIDE GAGE READINGS
MAY 23, 1972
TIME - P.S.T.
DATUM - M.L.L.W.

TIME	TIDE
6:00	3.3
6:30	3.3
7:00	3.4
7:30	3.2
8:00	3.1
8:30	2.8
9:00	2.5
9:30	2.2
10:00	2.0
10:30	1.7
11:00	1.5
11:30	1.3
12:00	1.4
12:30	1.4
13:00	1.5
13:30	1.7
14:00	2.1

NOTE — TIDE GAGE STATION IS LOCATED AT SOUTH END OF BERTH 60, L.A. OUTER HARBOR.

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

Do not extend this side of this line.

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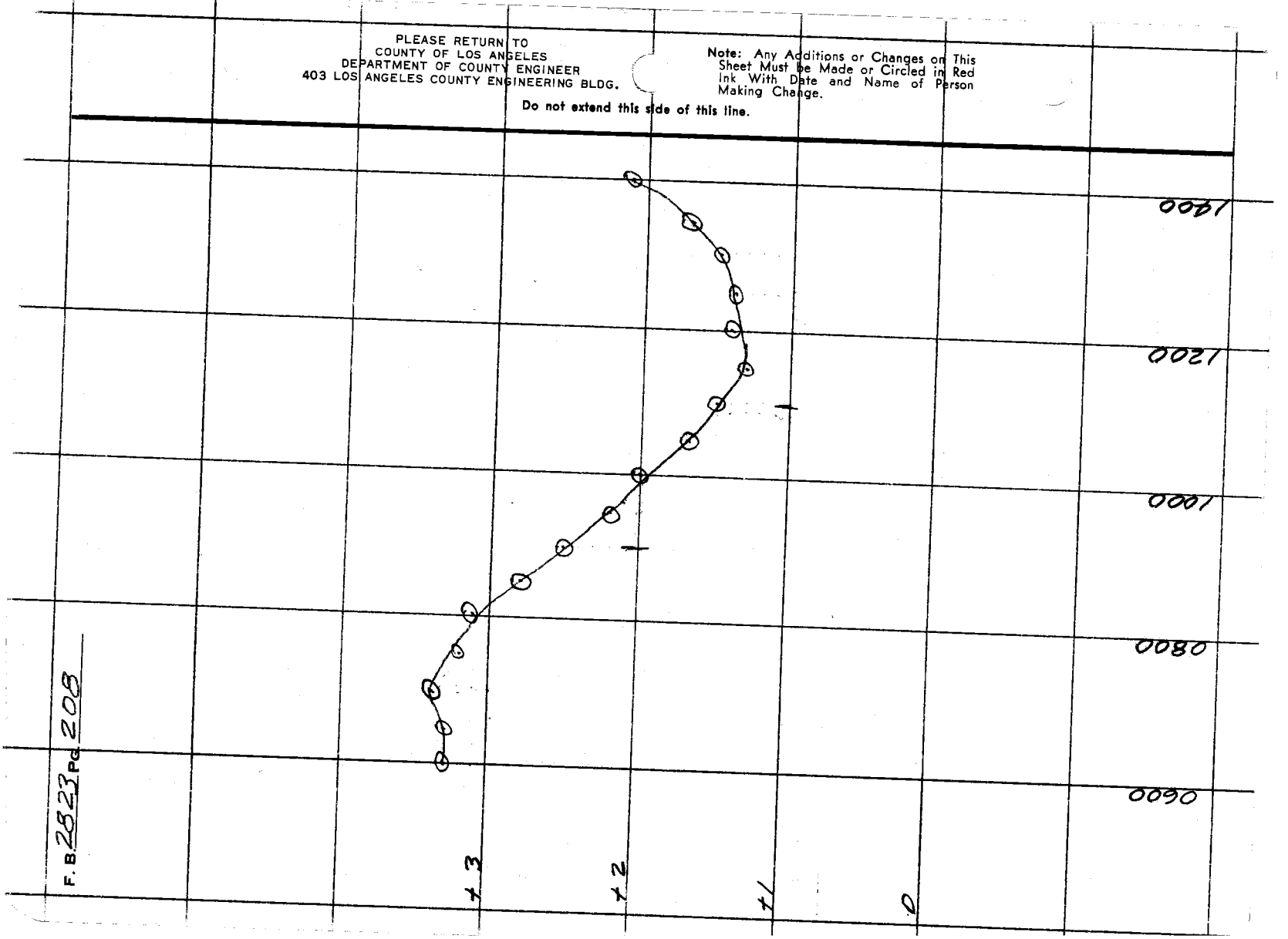
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend this side of this line.



F. B. 2823 Pg 208

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

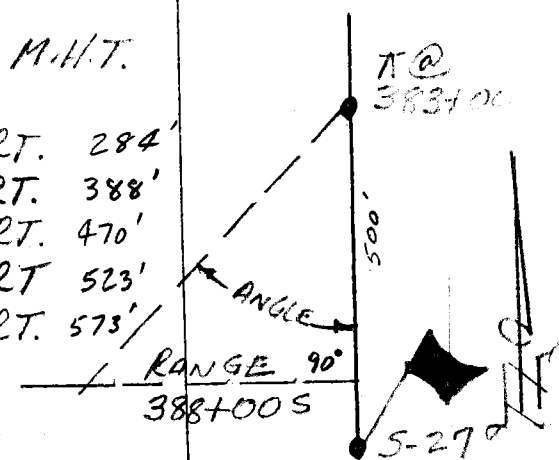
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	388+00	
		18 94			DATUM – M.L.L.W.	
TP	3 01	18 30	3 15	15 79		
388+00			4 6	14 2	41' L [illegible]	
			4 6	14 2		℄
			6 5	12 3		89 C [illegible]
			5 5	13 3		169 R [illegible]
			10 7	8 1		211 R 1X2

– TRANSIT @ 383+00S ~ SITE @ S-27 ~ ANGLES TO RIGHT ~ RUNNING
388+00S

	16	97		81	211' RT. 1X2 STK. T.P.	
	17	57	57	40	T.P.	
			11	46	235' RT. M.H.T.	
					ANGLE	
			5.9	-0 2	29°-34'	RT. 284'
			8.1	-2.4	37°-49'	RT. 388'
			114	-57	43°-13'	RT. 470'
			140	-8 3	46°-16'	RT 523'
			174	-11 7	48°-53'	RT. 573'



Profile Notes Red ____ Plotted ____ Job No. 0309[illegible] Division No. 11 F.B. 2823 Pg. 207
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by [illegible] Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed Date JUN 5 '72
Tx PALMER

F. B. 2823 PG. 210 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 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.

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

1139

PLEASE RETURN TO
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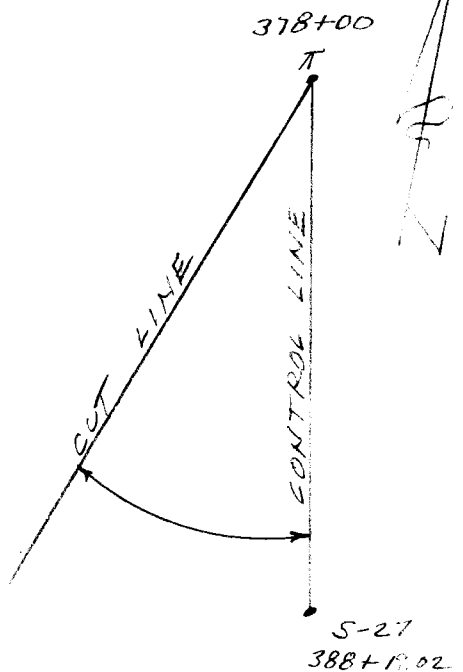
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
378+00	S-27 388+19.02	6:05	1	65	34			
			2	64	51			
			3	64	00			3880012
			4	63	22			
			5	62	31			
			6	61	49			3880014
			7	60	53			
			8	59	45			
			9	59	15			3880016
			10	58	52			
			11	58	17			
			12	57	29			3880018
			13	56	50			
			14	56	05			
			15	55	10			3880020
			16	54	22			
			17	53	19			
			18	52	34			3880022
			19	51	37			
			20	50	24			
				49	11			3880024

RANGE = 388+00



Profile Notes Red. ____ Plotted ____ Job No. 2300.02 Division No. 11 F. B. 2823 Pg. 211
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-24-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date 5 72

76L298 307 Cdb 12-62

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2823 PG. 212 Job No. 0200.02 Division No. 11 Notes Red. Plotted No. Profile
Survey of HYDRO-SURVEY Date Date X-Sec.
Survey by RICHARDS Notes R.T. Notes Chkd. Checked
Indexed I. M. PALMER Date Date Date No.

Inst. At	Sight On	Time	Angle No.	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
378+00	S-27 388+19.02		~~21~~	~~49~~	~~11~~			
			22	48	08			
			23	46	55			
			24	45	40			3880026
			25	43	51			
			26	42	12			
			27	39	56			3880028
			28	37	53			
			29	35	45			
			30	33	46			3880030
			31	32	06			
			32	30	26			
			33	29	00			3880032
			34	27	48			
			35	26	13			
		6:11	36	25	26			3880034
				00	00			
				00	00			
				00	00			3880036

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

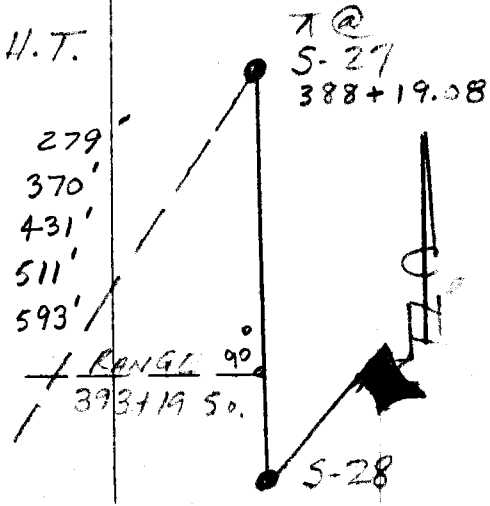
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	393+19 S
		18 80			DATUM-M.L.L.W.
TP	3 38	19 29	284	15 96	
393-19 S			43	15 0	℄ Bot [illegible]
			47	14 4	64'R [illegible]
			22	15 1	[illegible]
			123	7 0	205'R 1x2

TRANSIT @ S-27 ~ SITE ON S-28 ~ ANGLES TO RIGHT & RUNNING
- 393+19 S

	30	100		70	205' RT. 1x2 STK. T.P.
	24	3	6.1	39	T.P.
			17	46	226.5' RT. M.H.T.
					ANGLE
			77	-14	29°-12' RT. 279'
			90	-27	36°-31' RT 370'
			94	-31	40°-47' RT 431'
			10.7	-44	45°-36' RT. 511'
			180	-117	49°-53' RT. 593'



Profile Notes Red ____ Plotted ____ Job No. 030 [illegible] Division No. ____ F.B. 2823 PG. 213
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-22-72
No. ____ Date ____ Date ____ Map No. ____ Index Fd M. PALMERI Date JAN 5 '72

F. B. 2823 PG. 214 Job No. Division No. Notes Red Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chk'd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

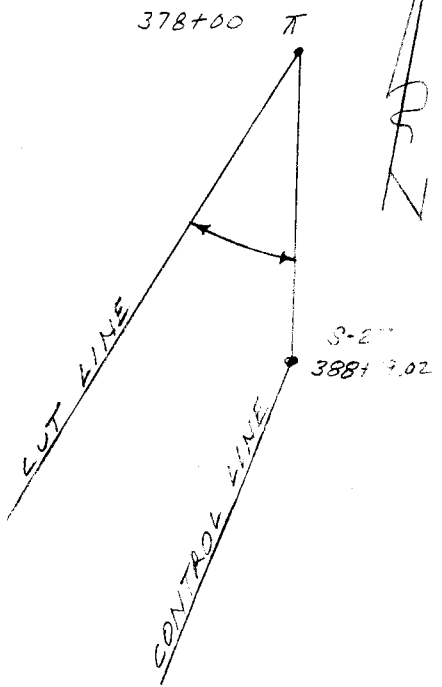
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
378+00	S-27 388+19.02	6:21	1	54	13			
			2	53	17			
			3	52	08			3931914
			4	51	09			
			5	50	10			
			6	49	27			3931916
			7	48	11			
			8	47	23			
			9	46	25			3931918
			10	44	55			
			11	43	45			
			12	42	25			3931920
			13	40	42			
			14	39	05			
			15	37	48			3931922
			16	36	52			
			17	35	36			
			18	34	12			3931924
			19	32	35			
			20	31	12			
				29	54			3931926

RANGE = 393+19



Profile No.____ Notes Red.____ Plotted____ Job No. 0300.02 Division No. 11

X-Sec. No.____ Date____ Date____ Survey of HYDRO - SURVEY

Notes Chkd.____ Date____ Checked____ Date____ Survey by RICHARDS Notes R. T. Date 5-24-72

Map No.____ Indexed M. PALMERI Date MAY 5 '72

F. B. 2823 PG. 215

76L298 307 Cdb 12-62

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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.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Range Line Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
378+00	S-27 388+19.02		~~21~~	~~29~~	~~54~~			
			22	28	22			
			23	26	54			
			24	25	25			3931928
			25	24	06			
			26	22	46			
			27	21	14			3931930
			28	20	16			
			29	19	17			
		6:26	30	18	20			3931932
				00	00			
				00	00			
				00	00			3931934

F. B. 2823 Pg. 216 Job No. 0300.02 Division No. 11 Notes Red. Plotted
Survey of HYDRO - SURVEY Date Date
Survey by RICHARDS Notes R. T. Notes Chkd. Checked
Indexed T. M. PALMERI Date Date Date
Profile No. X-Sec. No.

76-L-298 CE 307 5-66

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

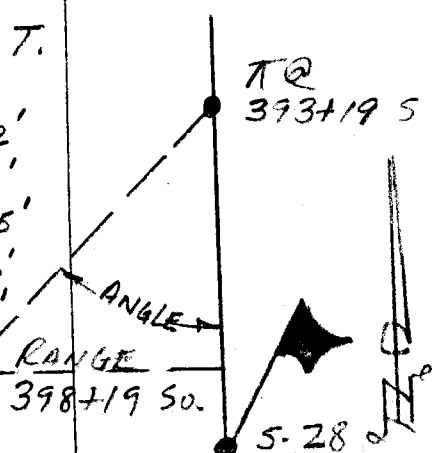
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	398+19 SO.
		19 29			DATUM-M.L.L.W.
[illegible]	3 [illegible]	18 30	[illegible]	14 [illegible]	
[illegible]			[illegible]	15 7	[illegible]
			4 2	14 1	
			5 2	13 1	77 R [illegible]
			1 5	13 8	154 R "
			11 5	6 8	213 [illegible]

TRANSIT @ 393+19 SO ~ SITE ON S-28 ~ ANGLES TO RIGHT
RUNNING 398+19 SO.

25	93		68	213' RT. [illegible]	
28	58	63	30	T.P.	
		12	46	233' RT. M.H.T.	
				ANGLE	
		6.7	-09	30°19'	RT. 292'
		67	-09	35°26'	RT. 356'
		95	-37	42°18'	RT. 455'
		110	-52	47°22'	RT. 543'
		141	-8.3	51°24'	RT. 626'
		155	-9.7	53°22'	RT. 672'



Profile Notes Red ____ Plotted ____ Job No. 0300P2 Division No. 11 F.B. 22 [illegible] Pg. [illegible]
No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY, REDONDO BEACH
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-23-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date [illegible] 5 72

F. B. 2823 Pg. 218 Job No. _____ Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

Do not extend notes this side of this line.

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

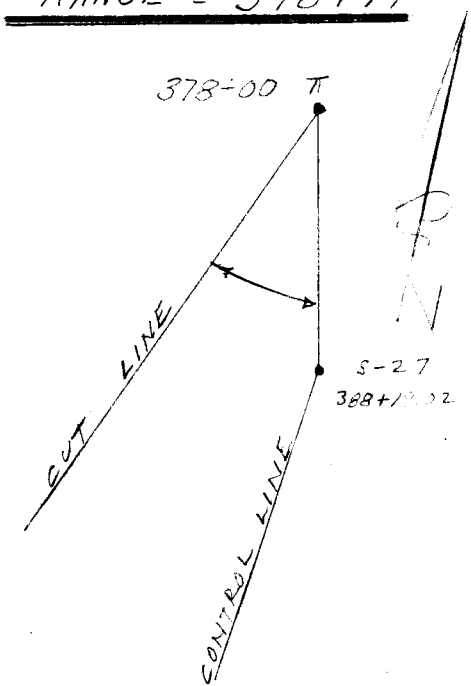
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
S. 378+00	S-27 388+19.02	6:37	1	44	05			
			2	43	19			
			3	42	16			3981914
			4	41	27			
			5	40	44			
			6	40	00			3981916
			7	39	16			
			8	38	15			
			9	37	22			3981918
			10	36	23			
			11	35	30			
			12	34	10			3981920
			13	32	53			
			14	31	49			
			15	30	32			3981922
			16	29	05			
			17	27	53			
			18	26	34			3981924
			19	25	29			
			20	24	14			
				23	11			3981926

RANGE = 398+19



Profile Notes Red. ____ Plotted ____ Job No. 2[illegible] Division No. 11 F. B. 2823 Pg. 219

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-24-72

No. ____ Date ____ Date ____ Map No. ____ Index No. PALMERI Date ____

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
378+00	5-27 388+19.02		~~21~~	~~23~~	~~11~~			
			22	22	25			
			23	21	20			
			24	20	10			3981928
			25	19	11			
			26	18	31			
			27	17	27			3981930
			28	16	56			
		6:41	29	15	59			
				00	00			3981932
				00	00			
				00	00			
				00	00			3981934

F. B. 2823 PG. 220 Job No. 0300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO-SURVEY Date Date No. X-Sec.

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

Indexed I. M. PALMERI Date Date Date No.

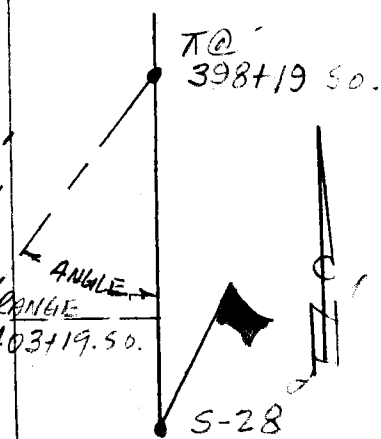
76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	403+19 So.	
		18 30				
TP	5 21	21 61	1 90	16 40		
403+19 S			0 62	20 99	72' L Top Steel Pump	
			2 8	19 3	67' L Begin Sand	
			4 8	16 8		℄
			6 6	15 0		[illegible] R Brk
			8 [illegible]	13 6		122 R
			11 8	9 8		163 R 1X2
TRANSIT @ 398+19 So. ~ SITE @ S-28 ~ ANGLES TO RIGHT ~ RUNNING						
403+19 So.						
	1 3	11 1		9 8	163' RT. 1X2 STK	T.P.
	2 4	7.6	5 9	5 2	T.P.	
			3 0	4 6	201.5' RT. M.H.T.	
					ANGLE	
			7 1	0 5	25°-43'	RT. 241'
			8 4	-0 8	31°-24'	RT. 305'
			9 4	-1 8	36°-20'	RT. 368'
			11 2	-3 6	40°-30'	RT. 427'
			14 4	-6 8	46°-39'	RT. 530'
	ESTIMATED		17 6	-10 0	49°-54'	RT. 594'



DATUM
MEAN LOWER LOW WATER

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of ____ Notes ____ Date ____
Notes Chk'd. ____ Checked ____ Survey by ____ Date ____
Date ____ Date ____ Map No. ____ Index ____ Date ____

F. B. 2823 Pg. 221
Survey of [illegible] Survey Redondo Beach
Survey by T. M. PALMERI Date JAN 5 '72

F. B. 2823 PG. 222 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

Do not extend notes this side of this line.

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

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76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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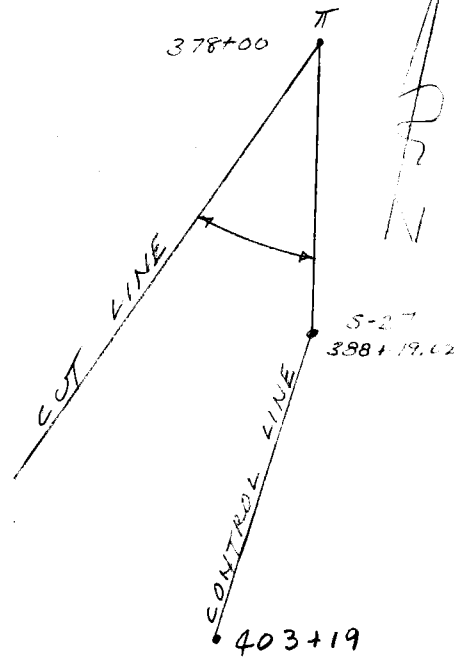
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	RANGE MIN.	LINE	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH						
378+00	5-27 388+19.02	6:52	1	41	14				
			2	40	23				
			3	39	01				4031914
			4	37	49				
			5	36	24				
			6	35	25				4031916
			7	34	27				
			8	33	22				
			9	32	30				4031918
			10	31	23				
			11	30	24				
			12	29	27				4031920
			13	28	17				
			14	27	22				
			15	26	14				4031922
			16	25	10				
			17	24	13				
			18	23	08				4031924
			19	22	18				
			20	21	07				
				19	57				4031926

RANGE = 403 + 19



Profile No.____ Notes Red.____ Plotted____ Job No. [illegible] Division No. 11

X-Sec. No.____ Date____ Date____ Survey of HYDRO - SURVEY

Notes Chkd.____ Checked____ Survey by RICHARDS Notes R.T. Date 5-24-72

Date____ Date____ Map No.____ Indexed J.M. PALMERI Date [illegible] 5-72

F. B. [illegible] PG. 223

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
	S-27							
378+00	388+19.02		~~21~~	~~19~~	~~37~~			
			22	19	02			
			23	18	06			
			24	17	17			4031928
			25	16	12			
			26	15	20			
			27	14	41			4031930
			28	13	46			
		6:57	29	13	26			
				00	00			4031932
				00	00			
				00	00			
				00	00			4031934

F. B. 2823 Pg. 24 Job No. 9300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No. X-Sec.

Survey by RICHARDS Notes Notes Chkd. Checked

Indexed J. M. PALMERI Date Date Date No.

76-L-298 CE 307 5-66

PLEASE RETURN TO
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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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

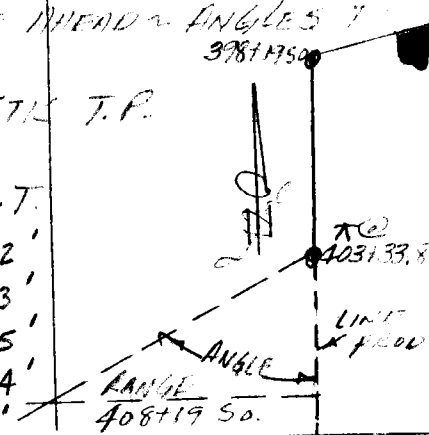
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	408+19 So.	
		21.61				
TP	5.63	22.57	4.67	16.94		
TBM#1			0.50	22.07	TBM #1 El. = 22.02 F.B. 2[illegible]	
	0.67	22.67		22.03		
TP	6.35	18.82	10.50	12.17		
408+19 S			3.5	15.0	33.5 L Sand @ [illegible]	
			6.3	12.2	10 L Brk	
			6.5	12.0		
			5.0	13.5		52 L Brk
			3.9	14.6		112 L
			9.3	9.2		[illegible] 1X2

TRANSIT @ 403+33.88 So. ~ SITE ON 398+19 So. PLUNGE AHEAD ~ ANGLES 7 RIGHT ~ RUNNING 408+19 So.

09	101		92	166' RT. 1X2 STK T.P.		
20	66	55	46	T.P.		
		20	46	198' RT. M.H.T.		
		59	07	ANGLE 26°30'	RT. 242'	
		82	-16	33°37'	RT. 323'	
		92	-26	41°15'	RT. 425'	
		118	-52	44°57'	RT. 484'	
		166	-100	48°37'	RT. 551'	

DATUM
MEAN LOWER LOW WATER



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 3-24-72
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

F.B. 2823 Pg. 225

F. B. 2823 PG. 226

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

76-L-298 CE 307 5-66

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

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76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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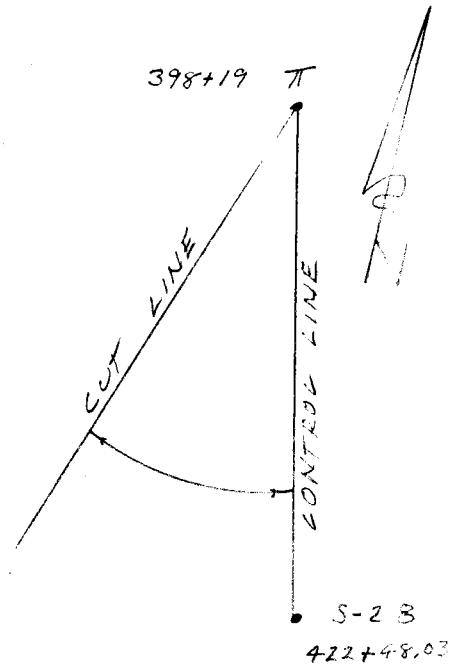
Do not extend notes this side of this line.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
398+19	S-28 422+48.03	7:21	1	63	14			
			2	62	35			
			3	61	59			4081912
			4	61	18			
			5	60	35			
			6	59	46			4081914
			7	58	58			
			8	58	11			
			9	57	20			4081916
			10	56	27			
			11	55	37			
			12	54	21			4081918
			13	53	12			
			14	52	22			
			15	51	11			4081920
			16	49	48			
			17	48	37			
			18	47	28			4081922
			19	46	12			
			20	44	35			
				43	11			4081924

RANGE = 408+19



Profile Notes Red. ____ Plotted ____ Job No. 23[illegible] Division No. 11 F.B. 2823 Pg. 227

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-24-72

No. ____ Date ____ Date ____ Map No. ____ Indexed J. M. PALMERI Date ____

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
398+19	5-28 422+48.03		~~21~~	~~43~~	~~11~~			
			22	41	32			
			23	40	08			
			24	38	45			4081926
			25	37	15			
			26	36	00			
			27	34	25			4081928
			28	32	48			
			29	31	42			
			30	30	23			4081930
			31	29	03			
			32	28	15			
		7:25	33	27	14			4081932
				00	00			
				00	00			
				00	00			4081934

F. B. 2823 Pg. 228 Job No. 2300.02 Division No. 11 Notes Red. Plotted Profile

Survey of HYDRO - SURVEY Date Date No. X-Sec.

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

Indexed M. PALMER Date Date Date No.

76-L-298 CE 307 5-66

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

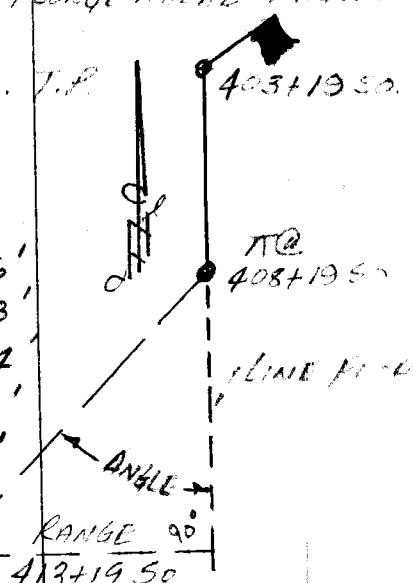
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	413+19 So.	
		18 52				
TP	5 78	19 08	5 22	13 30		
[illegible]			6 3	12 8		5' R Bot [illegible]
			5.7	13 2		50' R [illegible]
			4 [illegible]	14 8		[illegible] R
			5 6	13 5		[illegible]
			3.0	11 1		[illegible] 1X2

– TRANSIT @ 408+19 So – SITE ON 403+33.88 So. PLUNGE AHEAD ANGLES TO RIGHT RUNNING 413+19 So.

06	11 7		11 1	153' R 1X2 STK. T.P.		
17	67	6.7	50	T.P.		
		21	46	193' RT. M.H.T.		
				ANGLE		
		6.2	05	25°-14'	RT. 236'	
		83	-16	28°-09'	RT 268'	
		90	-23	36°-49'	RT. 374'	
		110	-43	45°-03'	RT 501'	
		137	-70	47°-55'	RT. 554'	
		151	-84	49°-38'	RT. 588'	
		167	-100	50°-06	RT 598'	



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. [illegible] Division No. ____
No. ____ Date ____ Date ____ Survey of [illegible] Date [illegible]
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

T. M. PALMERI

F. B. 2823 PG. 229

F. B. 2823 Pg. 230 Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

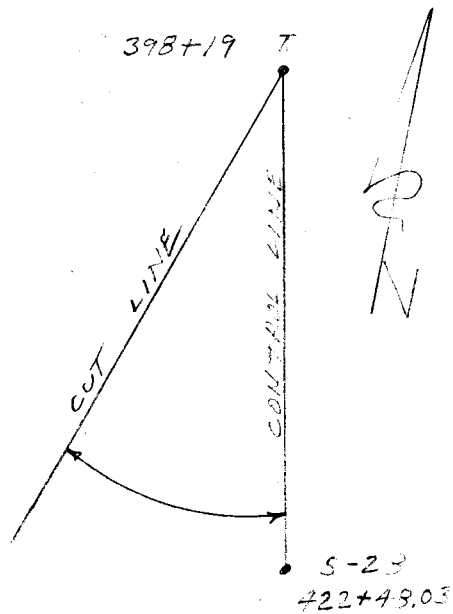
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG.	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
398-19	S-28 422+48.03	7:36	1	51	48			
			2	50	58			
			3	49	54			4131912
			4	48	48			
			5	47	25			
			6	46	35			4131914
			7	45	22			
			8	44	33			
			9	43	22			4131916
			10	42	19			
			11	41	16			
			12	40	15			4131918
			13	38	56			
			14	37	53			
			15	36	34			4131920
			16	35	16			
			17	33	42			
			18	32	15			4131922
			19	30	46			
			20	29	35			
				28	26			4131924

RANGE = 413+19



Profile No.____ Notes Rod.____ Plotted____ Job No. 23001-05 Division No. 11 Survey of HYDRO-SURVEY
X-Sec. No.____ Date____ Date____ Date____ Survey by RICHARDS Notes R.T. Date 5-24-72
Notes Chkd.____ Checked____ Date____ Map No.____ Index M. PALMERI Date JUN 5 '72
F. B. 2823 Pg. 231

F. B. 2823 PG. 232 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO-SURVEY Date _____ Date _____ No. _____

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

Indexed T. M. PALMERI Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
398+19	S-28 422+48.03		21	28	26			
			22	27	16			
			23	25	33			
			24	24	25			4131926
			25	23	06			
		7:41	26	22	05			
				00	00			4131928
				00	00			
				00	00			
				00	00			4131930

76-L-298 CE 307 5-66

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

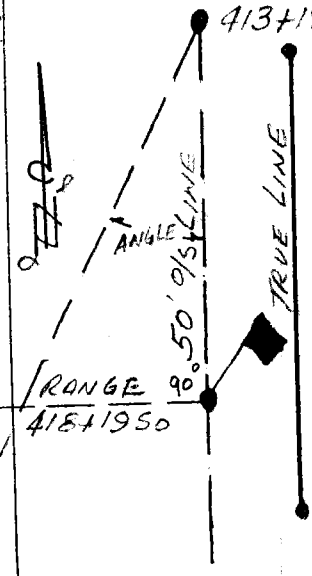
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

418+19 50

STATION	B. S.	H. I.	F. S.	ELEV.		
		19 25				
TP 413+95	5.0	19 25	4.0	14 09		195 R BY 2.0 M
			5.7	13 6		50 R
			5.4	13 9		104 R
			4.7	14 6		151 R 1x2 T.P.
			11 0	8 3		
TRANSIT @ 413+1950 (50' O/S LINE) ~ SITE ON 418+1950 (50' O/S LINE) ~ ANGLE ~ TO RIGHT ~ RUNNING 418+1950						
	09	92		83	151' RT. 1x2 T.P.	
	19	62	4.9	43	T.P.	
			16	46	179' RT. M.H.T.	
					ANGLE	
			5.5	07	19°-35'	RT. 178'
			6.8	-06	25°-33'	RT 239'
			8.2	-20	33°-19'	RT. 329'
			9.3	-31	38°-00'	RT. 391'
			10.6	-44	41°-35'	RT. 444'
			13.0	-68	46°-18'	RT. 523'
			15.0	-88	48°-16'	RT 561'
			16.3	-101	50°-22'	RT. 604'

DATUM
MEAN LOWER LOW WATER



Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____ Notes ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Date 5-24-72
No. ____ Date ____ Date ____ Map No. ____ Index M. PALMERI Date 5-72

F.B. 2823 PG. 233

F. B. 2823 PG. 234

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-Sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

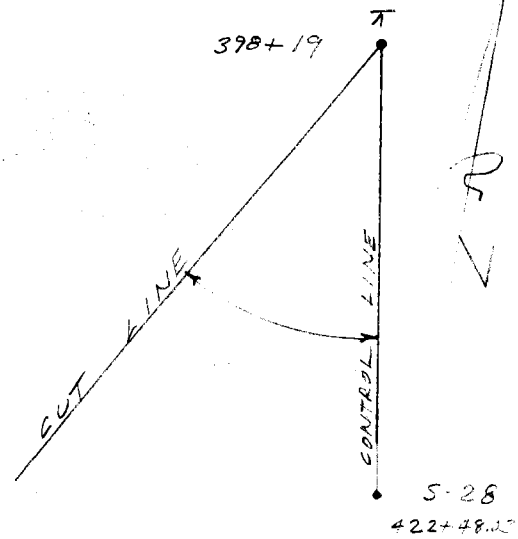
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
398+19	5-28 422+48.03	7151	1	46	14			
			2	45	23			
			3	44	23			4181912
			4	43	35			
			5	42	36			
			6	41	32			4181914
			7	40	37			
			8	39	37			
			9	38	30			4181916
			10	37	25			
			11	36	14			
			12	34	59			4181918
			13	33	55			
			14	32	57			
			15	31	42			4181920
			16	30	28			
			17	29	16			
			18	28	10			4181922
			19	27	07			
			20	26	06			
				25	01			4181924

RANGE = 418 + 19



Profile Notes Red. ____ Plotted ____ Job No. 0300.0[illegible] Division No. 11 F. B. 2023 Pg. 235

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.T. Date 5-24-72

No. ____ Date ____ Date ____ Map No. ____ Ind. T. M. PALMERI Date ____

F. B. 2823 PG. 236 Job No. 0300.02 Division No. 11 Notes Red. _____ Plotted _____ Profile

Survey of HYDRO - SURVEY Date _____ Date _____ No. _____

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

Indexed T. M. PALMERI Date _____ Date _____ Date _____ No. _____

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	FOR OFFICE USE ONLY CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
398+19	5-28 422+48.03		~~21~~	~~25~~	~~01~~			
			22	23	56			
			23	23	00			
			24	21	56			4181926
			25	20	51			
			26	19	50			
			27	18	41			4181928
			28	17	53			
			29	16	47			
			30	15	45			4181930
			31	14	44			
		7:56	32	13	50			
				00	00			4181932
				00	00			
				00	00			
				00	00			4181934

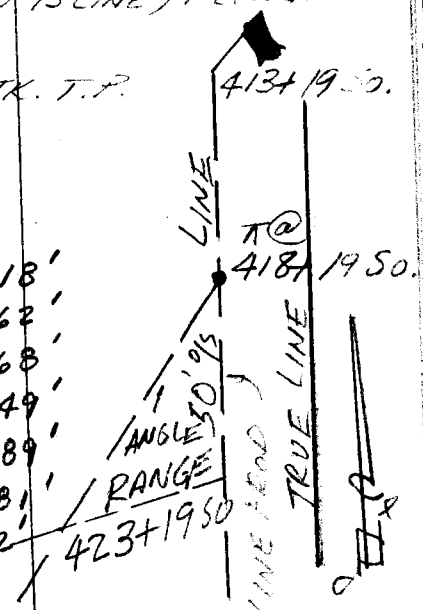
76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.	423+19 So.		
		19 25					
	367	18 41	451	14 74			
423+19 So.			47	13 7			26'R. BOT OF BANK
			47	13 7			51'R. BRK
			43	14 1			120'R. "
			109	75			157'R 1X2
TRANSIT @ 418+19 So. (50'0/s LINE) ~ SITE ON 413+19 So (50'0/s LINE) PLUNGE AHEAD ~ ANGLES TO RIGHT ~ RUNNING 423+19 SO.							
	19	94		75	157'RT. 1X2 STK. T.P.		
	16	67	43	51	T.P.		
			21	46	179' RT. M.H.T.		
					ANGLES		
			55	12	21°-26'	RT.	218'
			74	-07	24°-55'	RT.	262'
			71	-04 OK	32°-08'	RT.	368'
			103	-36	41°-22'	RT.	549'
			148	-81	46°-34'	RT.	689'
			153	-86	49°-18'	RT.	781'
			168	-101	51°-38'	RT.	872'



DATUM
MEAN LOWER LOW WATER

DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-24-72
No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JAN 5 '72

F.B. 2823 PG. 237

F. B. 2823 PG. 238

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

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chk'd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

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

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

Do not extend notes this side of this line.

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

76-L-298 CE 307 5-66

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

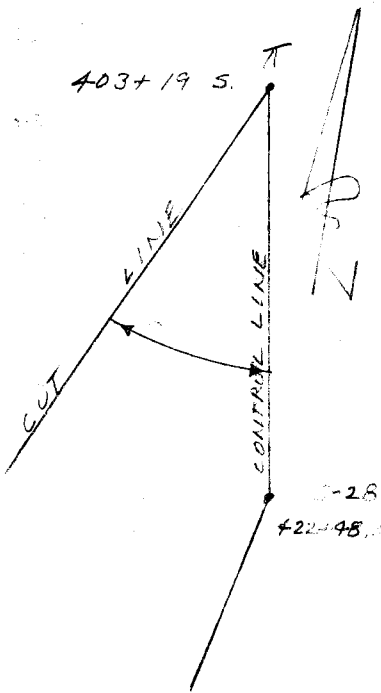
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	FOR OFFICE USE ONLY RANGE LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
403+19	S-28 422+48.03	8:14	1	49	00			
			2	48	20			
			3	47	26			4231914
			4	46	17			
			5	45	20			
			6	44	38			4231916
			7	43	53			
			8	42	50			
			9	41	52			4231918
			10	40	54			
			11	39	50			
			12	38	41			4231920
			13	37	47			
			14	36	45			
			15	35	33			4231922
			16	34	18			
			17	32	56			
			18	31	51			4231924
			19	30	50			
			20	29	41			
			21	28	28			4231926

RANGE = 423 + 19 S.



Profile Notes Red. Plotted Job No. 0300.01 Division No. 11 F. B. 2823 Pg. 239

No. Date Date Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. Checked Survey by RICHARDS Notes R.T. Date 5-24-72

No. Date Date Map No. Indexed PALMERI Date JAN 5 72

76L298 307 Cdb 12-62

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.

Inst. At	Sight On	Time	Angle No	Hor. Deg.	Angle Min.	For Office Use Only: Range Line Deg.	Min.	Card No.
Don't Punch	Don't Punch	Don't Punch	Don't Punch					
403+19	5-28 422+48.03		~~21~~	~~28~~	~~28~~			
			22	27	13			
			23	26	21			
			24	25	21			4231928
			25	24	30			
			26	23	33			
			27	22	22			4231928
			28	21	16			
			29	20	18			
			30	19	08			4231930
			31	17	54			
			32	17	04			
		8:19	.33	15	45			4231932
				00	00			
				00	00			
				00	00			4231934

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. 11 Job No. 0300.02

Survey of HYDRO-SURVEY Notes R.T.

Survey by RICHARDS Date

Indexed M. PALMERI

F. B. 2823 Pg. 240

76-L-298 CE 307 5-66

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

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

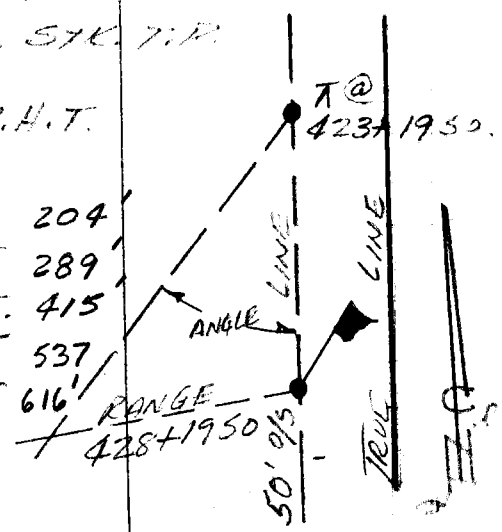
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	428+19 SO.	
		3 2				
428+19.5			3.7	14 7	16' Bot of Bank	
			5 7	12 7		19 R
			5.0	13 4		51 R
			6 1	12 3		87 R
			[illegible]	7 7		125 R 1x2

TRANSIT @ 423+19 SO. (50' O/S LINE) ~ SITE ON 428+19 SO. (50' O/S LINE)

ANGLES TO RIGHT ~ RUNNING 428+19 SO.

19	96		77	125' RT. 1X2 STK. T.P.		
12	64	44	52	T.P.		
		18	46	159' RT. M.H.T.		
				ANGLE		
		60	04	20°16'	RT. 204'	
		67	-03	26°55'	RT. 289'	
		94	-30	34°50'	RT. 415'	
		129	-65	40°50'	RT 537'	
		170	-106	44°01'	RT. 616'	



DATUM
MEAN LOWER LOW WATER

Profile Notes Red ____ Plotted ____ Job No. 800 Division No. 11 F. B. 282 PG. 2-11
No. ____ Date ____ Date ____ Survey of Cerrando Blvd. Hydro Survey
X-Sec. Notes Chk'd. ____ Checked ____ Survey by ____ Notes ____ Date 5-24-92
No. ____ Date ____ Date ____ Map No. ____ Indexed M. PALMERI Date JUN 5 '72

76-L-298 CE 307 5-66

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

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST 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.		
		18 41				
TP	3 41	18 15	3 67	14 74		
TP	5 19	17 97	5 37	12 78		
TP	10 89	23 06	5 80	12 17		
TBM#1			1 08	21 98	TBM#1 El. = 22.002	F.B. 2100-154

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

Plotted ____ Date ____ Checked ____ Date ____

Notes Red ____ Date ____ Notes Chk'd. ____ Date ____

Division No. ____ Job No. ____ Notes ____ Date ____

Survey of ____

Survey by ____

Indexed J. M. PALMERI

F. B. 2823 PG. 242

76L298 307 Cdb 12-62

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

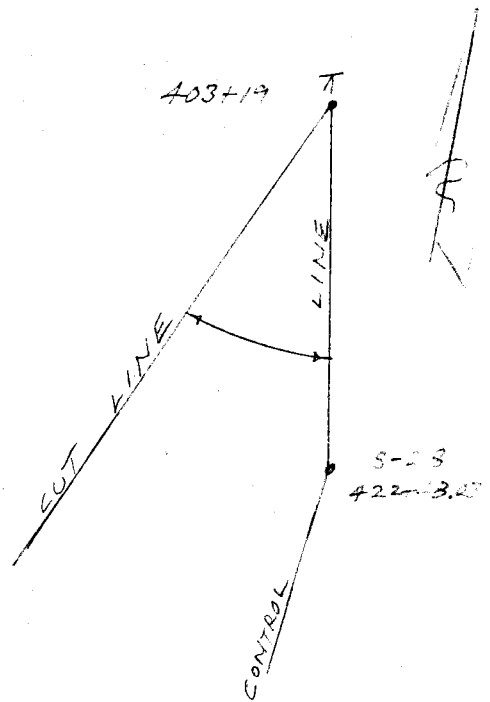
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE DEG. EL	LINE MIN.	CARD Nº
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
403+19	S-28 422+48.03	8:33	1	42	18	38.1		
			2	41	28	37.1		
			3	40	33	36.1		4281914
			4	39	48			
			5	38	45			
			6	37	53			4281916
			7	36	50			
			8	36	00			
			9	35	08			4281918
			10	34	16			
			11	33	11			
			12	32	27			4281920
			13	31	30			
			14	30	35			
			15	29	48			4281922
			16	28	35			
			17	27	48			
			18	26	50			4281924
			19	25	52			
			20	24	47			
				23	44			4281926

RANGE = 428+19 S.



Profile Notes Red. ____ Plotted ____ Job No. 0300 Division No. 11 F. B. 2823 Pg. 243

No. ____ Date ____ Date ____ Survey of HYDRO-SURVEY

X-Sec. Notes Chkd. ____ Checked ____ Survey by RICHARDS Notes R.J. Date 5-24-72

No. ____ Date ____ Date ____ Map No. ____ Indexed T. M. PALMERI Date JUN 5 '72

76L298 307 Cdb 12-62

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.

INST. AT	SIGHT ON	TIME	ANGLE Nº	HOR. ANGLE DEG.	HOR. ANGLE MIN.	FOR OFFICE USE ONLY RANGE LINE DEG.	RANGE LINE MIN.	CARD Nº.
DON'T PUNCH	DON'T PUNCH	DON'T PUNCH	DON'T PUNCH					
403+19	S-2B 422+48.03		~~21~~	~~23~~	~~44~~			
			22	22	44			
			23	21	40			
			24	20	38			4281928
			25	19	53			
			26	19	10			
			27	18	44			4281930
			28	17	51			
			29	17	15			
			30	16	20			4281932
			31	15	52			
			32	15	07			
		8:39	33	14	26			4281934
				00	00			
				00	00			
				00	00			4281936

45 LS

F. B. 2823 Pg. 244

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

Survey of HYDRO-SURVEY Date Date No.

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

Indexed T. M. PALMERI Date Date Date No.

Notes Ck'd by	Survey of HYDROGRAPHIC SURV
Map No.	JN 300.02 Tape Std
Office Work	Surveyed by RICHARDS
Checked	Notes HARRIET Date 5-24-7
Date	Indexed T. M. PALMERI

TIDE GAGE REA
MAY 24, 197
TIME - P.S.
DATUM - M.

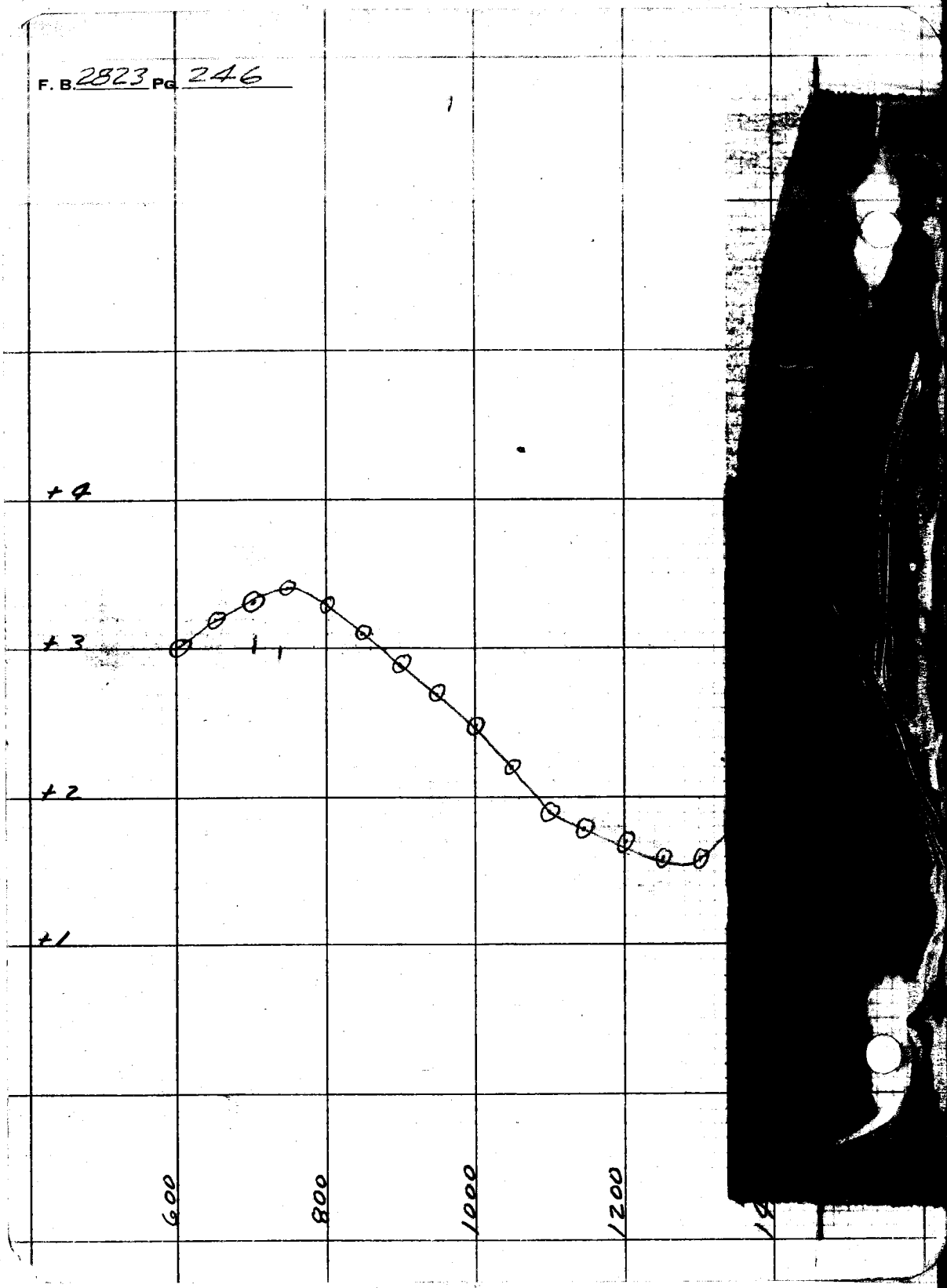
TIME
6:00
6:30
7:00
7:30
8:00
8:30
9:00
9:30
10:00
10:30
11:00
11:30
12:00
12:30
13:00
13:30
14:00

NOTE - TIDE GAGE STATION IS LO
END OF BERTH 60, L. A.

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

Do not extend this side of ship line.

PLEASE RETURN TO
COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE#310 3-68

F. B. 2823 PG. 246