Notes Ck'd by
Map No.
Work

Survey of
IN Tape Std °F
Surveyed by
Notes Date
Indexed

F.B. 2286 Pg

Job	Description
4 Topog.	SMALL CRAFT HARBORS 0075.24 PARADISE COVE AREA-Inshore profile, cut-in angles & depth soundings from 0+00 at 1500' W. of Escondido Creek to Sta. 115+00 at Dume Cove.
Elevs 9	Tidal staff readings at Santa Monica Pier-July 1957.

Microfilmed Feb. 86

Notes Ck'd by	Survey of Small Craft Harbor F. B. 2286 PG. 5
Map No.	JN 0075.24 Tape Std °F
Office Work	Surveyed by M. A. Van Deren
Checked	Notes Van Date 6-27-57
Date	Indexed R. C. Johnson 7-8-57

JN 0075.24

SOUNDINGS & INSHORE ELEV

In Paradise Cove Area

SMALL CRAFT 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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76F3095 S&E #247 1-56

Notes Ck'd by		Survey of Small Craft Harbor	F. B2286 Pg. 7
Map No.		W. O. 8075-24 Tape No.	St'd. °F
Office Work		Surveyed by M. A. VanDeren	
Checked		Notes Van	Date 6-27-57
Date		Indexed E. C. Johnson 7-8-57	

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Saving Time

Add 20 Minutes For Correct Daylight Saving Time

6-27-57

Gauge Time				Predicted Tide
AM 7:00	+2.0	1.8	7:20	1.4
" 7:30	+2.6	2.4	7:50	2.1
" 8:00	+3.1	2.9	8:11	2.7
" 8:30	+3.7	3.5	8:50	3.1
" 9:00	+4.0	3.8	9:20	3.5
" 9:30	+4.3	4.1	9:50	3.8
" 10:00	+4.3	4.1	10:20	3.9
" 10:30	+4.4	4.2	10:50	3.9
" 11:00	+4.2	4.0	11:20	3.8
" 11:30	+4.0	3.8	11:50	3.5
" 12:00	+3.8	3.6	12:20	3.2
PM 12:30	+3.5	3.3	12:50	
" 1:00	+3.3	3.1	1:20	
" 1:30	+2.9	2.7	1:50	
" 2:00	+2.7	2.5	2:20	

Subtract 0.2 from all readings to match tide staff.

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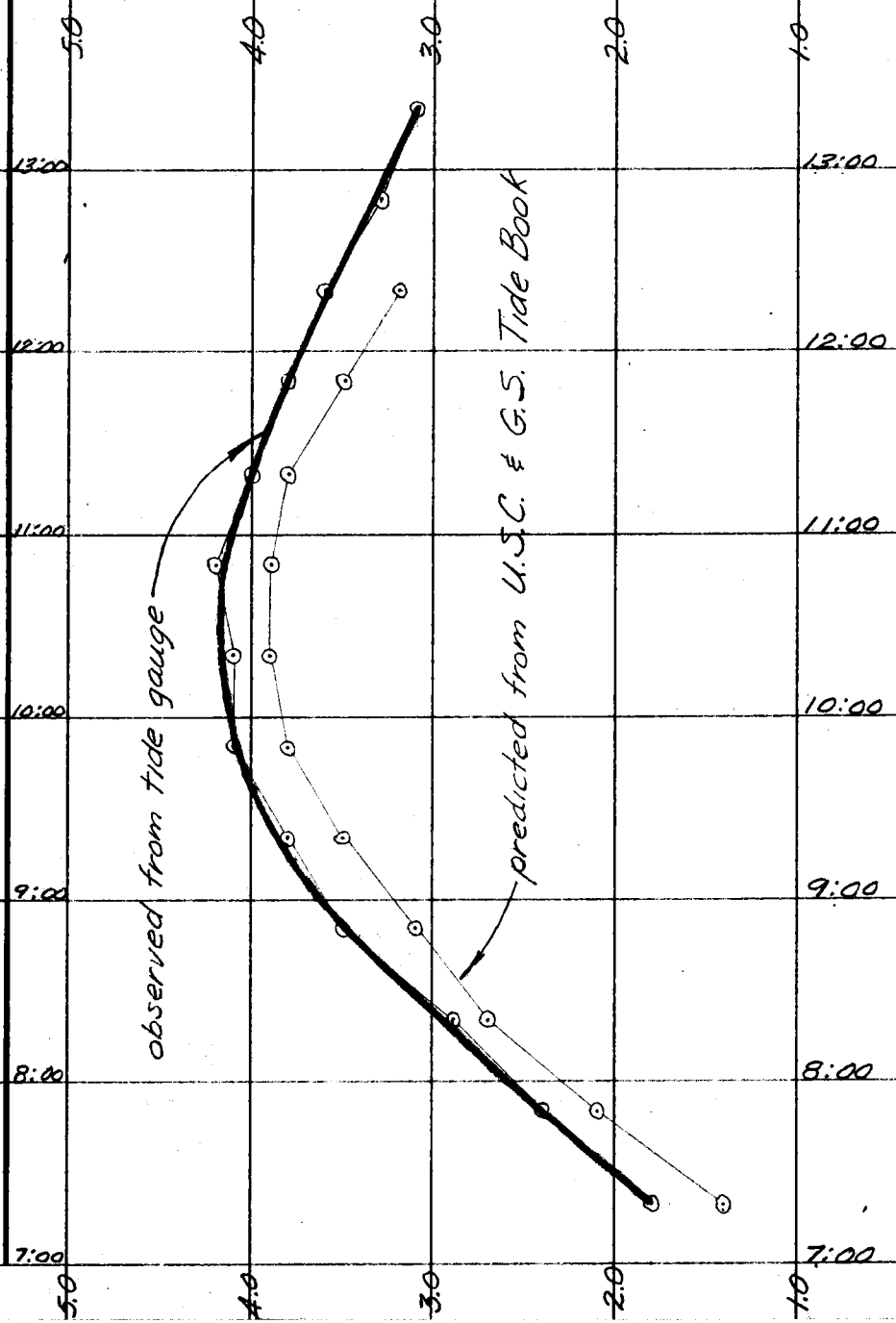
76F3095 S&E #247. 8-54

Notes Ck'd by JCN	Survey of Small Craft Harbor
Map No.	JN0075.24 Tape Std °F
Office Work JCN	Surveyed by
Checked KRK	Notes Date
Date 10-'57	Indexed

F. B. 2286 PG. 8

June 27, 1957



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76F309S S&E #247 1-56

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 2+50			Sight on 0+00
0+00	2 88	17 06		14 18	D-1A, el=14.182, F.B. 42 2243			Inshore
0+00			+1 7	18 8	ground			0+00
20' R.			+2 1	19 2				
35' L.			0 6	16 5	Brk.			
T.P.	1 48	7 20	11 34	5 7				
			2 5	4 7	17	38	50	
			7 0	0 2	27	28	130	
			8 9	-1 7	34	43	173	
			11 0	-3 8	39	16	205	
			12 3	-5 1	44	15	244	
			12 8	-5 6	47	16	276	
			14 0	-6 8	50	57	309	
T.P.			1 25	595				

Profile Notes Red Plotted Job No. 20754 Division No. 10 F. B. 2286 Pg. 9
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X.Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Eq. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Notes Johnson Date

76L298 307 4-50

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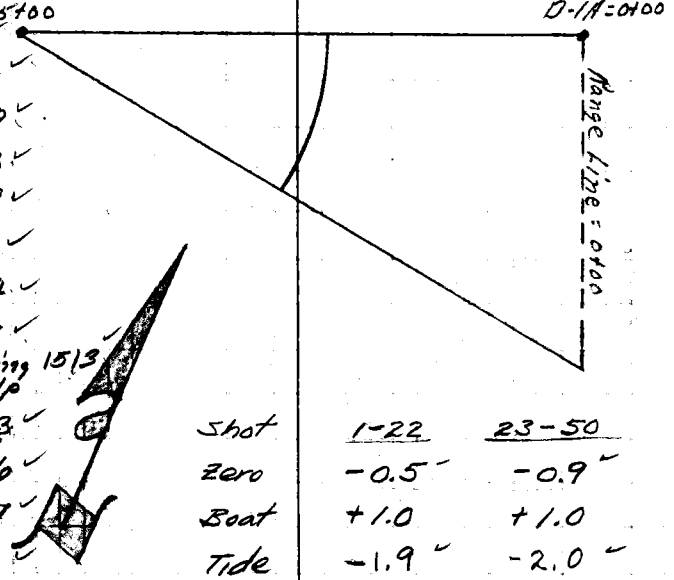
STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On		# Color	Time	Hor. Ang.	Remarks
	1	50.0 48.6	7:22	56° 58'	2307 Cut in Line 0+00
	2	48.4 47.0		56° 01'	2225
	3	46.7 45.3		54° 42'	2119 15+00
	4	44.9 43.5		53° 40	2040
	5	42.9 41.5		52° 17'	1940
	6	41.3 39.9		51° 05'	1858
	7	39.7 38.3		49° 52'	1779
15+00	8	38.3 36.9		48° 42'	1707
	9	36.6 35.2		47° 16'	1624
	10	36.1 34.7		46° 04'	1557
	11	35.3 33.9		45° 15'	Beginning of Kelp 1513
	12	33.9 32.5		44° 52'	1493
	13	33.3 31.9		44° 20'	1466
	14	33.2 31.8		42° 58'	1397
	15	32.8 31.4		42° 13'	1361
	16	31.7 30.3		41° 33'	1329
	17	31.0 29.6		40° 46'	1293
	18	30.4 29.0		40° 25'	1278
	19	28.3 26.9		39° 16'	1227
	20	28.3 26.9		38° 59'	1214

D-1A



Shot	1-22	23-50
Zero	-0.5	-0.9
Boat	+1.0	+1.0
Tide	-1.9	-2.0
	-1.4	-1.9

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 11
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

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STATION		B. S.	H. I.		F. S.	ELEV.				
Inst. AT.	Sight on	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks			
		21	27.9	26.5		37° 42'	1160	Cut in Line 0+00		
		22	26.7	25.3		36° 58'	1129			
		23	25.6	23.7		35° 48	1082			
		24	24.4	22.5		35° 00	1050			
		25	24.7	22.8		34° 21'	1025			
		26	24.3	22.4		33° 23'	989			
		27	22.8	20.9		32° 27'	954		Shot	1-22	23-50
15+00	0-1A.	28	22.3	20.4		31° 46'	929		Zero	-0.5	-0.9
		29	22.6	20.7		31° 09'	903		Boat	+1.0	+1.0
		30	22.8	20.9		30° 50'	896		Tide	-1.9	-2.0
		31	18.6	16.7		29° 23'	845	rock 5' back at 17.1'		-1.4	-1.9
		32	16.8	14.9		28° 28'	813	rock 1' back at 14.6'			
		33	16.5	14.6		27° 52'	794	rock on shot at 14.1'			
		34	18.1	16.2		26° 54'	761				
		35	17.7	15.8		25° 35'	719				
		36	17.7	15.8		24° 26'	681				
		37	16.6	14.7		23° 26'	650				
		38	15.3	13.4		22° 21'	617				
		39	14.9	13.0		21° 23'	588				
		40	14.6	12.7		20° 08'	550				

F. S. 2286 Pg. 12
Job No. 00[illegible] Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 6-27-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed R. C. Johnson Date Date 10-57 Date 10-57 No.

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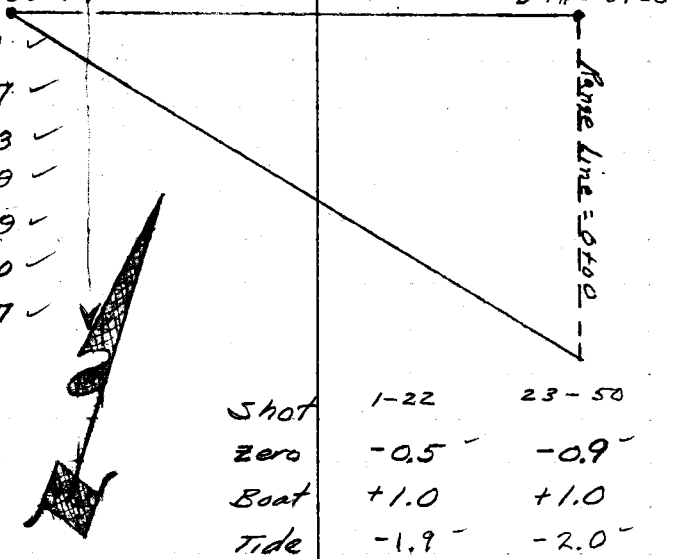
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On		#	Color	Time	Hor. Ang.		Remarks
		41	14.1	12.2		19° 10'	522	Cut in Line 0+00
		42	13.3	11.4		18° 09	492 465	Rocky
		43	11.1	9.2		17° 14'	15+00	D-1A = 0+00
		44	8.4	6.5		16° 22	441	
		45	6.7	4.8		15° 31	417	
		46	6.5	4.6		14° 42'	393	
15+00	D-1A	47	9.4	7.5		13° 48'	369	
		48	9.5	7.6		12° 44'	339	
		49	5.8	3.9		10° 55'	290	
		50	5.3	3.4	7:33	10° 04'	267	



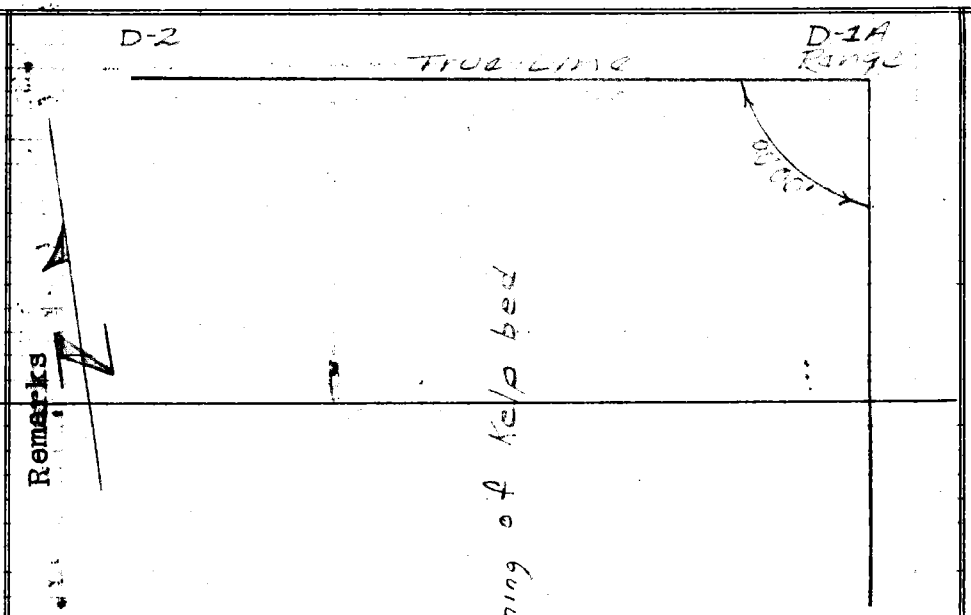
rocks between shots 42 & 47 - highest rock at 4.1'

rocks between shots 47 & 50 - highest rock at 3.1'

Shot	1-22	23-50
Zero	-0.5	-0.9
Boat	+1.0	+1.0
Tide	-1.9	-2.0
	-1.4	-1.9

Profile Notes Red. JSH Plotted JCN Job No. 007524 Division No. 10 F. B. 2286 Pg. 13
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2286 Pg. 15
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Goodwin	Date 6-27-57
	Date 10-57	Date 10-57	Map No.	Indexed Johnson	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On D-1A 0+00 D-2	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		7:22		
	2		7:22		
	3		7:22		
	4		7:22		
	5		7:22		
	6		7:23		
	7		7:23		
	8		7:23		
	9		7:23		
	10		7:23		
	11		7:23		
	12		7:24		
	13		7:24		
	14		7:24		
	15		7:24		
	16		7:24		
	17		7:25		
	18		7:25		
	19		7:26		
	20		7:26		

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76298 S & E #307—7-55

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
D-2A C+00	D-2	21		7:26	90° [illegible]		
		22		7:26	[illegible]		
		23		7:26	[illegible]		
		24		7:27	[illegible]		
		25		7:27	[illegible]		
		26		7:27	[illegible]		
		27		7:27	[illegible]		
		28		7:27	[illegible]		
		29		7:27	[illegible]		
		30		7:28	[illegible]		
		31		7:29	90° [illegible]		
		32		7:29	[illegible]		
		33		7:29	[illegible]		
		34		7:29	[illegible]		
		35		7:29	[illegible]		
		36		7:30	90° [illegible]		
		37		7:30	[illegible]		
		38		7:30	[illegible]		
		39		7:30	[illegible]		
		40		7:30	[illegible]		

F. S. 2286 Pg. 16 Job No. 0075-24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 6-27-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes J.C. Goodwin Notes Chkd. JSH Checked JCN
Indexed K. O. Johnson Date Date Date No.

76298 S & E #307—7-55

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

Profile Notes Red. JCN Plotted JSH Job No. 00752 Division No. 10 F. B. 3886 Pg. 17
No. Date 10-57 Date 10-57 Survey of [illegible]
X-Sec. Notes Chkd. JCN Checked JSH Survey by [illegible] Notes [illegible] Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Kindred Johnson Date

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 2+50	Sight on 5+00
T.P.	2 02	7 97		5 95		Inshore
5+00		+	10 0	18 0	Brk.	5+00
48'R		+	19 2	27 2	T.S.	
			2 0	6 0	12 22 55	
			6 7	1 3	19 46 90	
			9 7	-1 7	30 50 149	
			12 [illegible]	-4 7	38 41 200	
			16 0	-8 0	44 38 247	
			[illegible]	-9 4	49 21 291	
T.P.			1 04	6 93		

Profile Notes Red. JCN Plotted JSH Job No. 0075-24 Division No. 10 F. B. 2286 Pg. 19
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by Englisis Notes Ed Date 6-27-57
No. Date 10-57 Date 10-57 Map No. ~~X Indexed~~ Johnson Date

76L298 307 4-50

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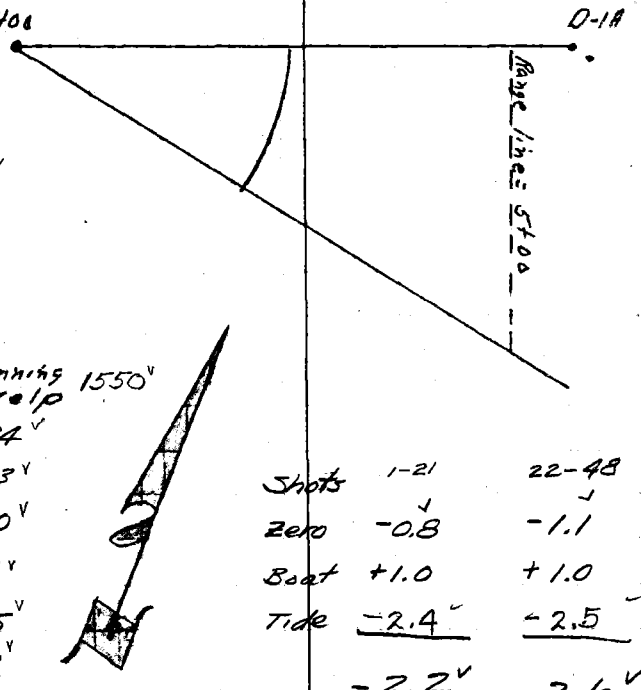
Profile Notes Red. VSM Plotted JCW Job No. 2286 Division No. 10 F. B. 2286 Pg. 21
No. Date 10-57 Date 10-57 Survey of Sizzell Craft Harbor
X-Sec. Notes Chkd. VSM Checked JCW Survey by Van Deren Notes RT Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.	Time	Hor. Ang.	Remarks
Inst. Sight At On		# Color					
	1	49.8 47.6	-7: 49	66° 27'		2294	Cut in Line 5700
	2	48.6 46.4	-	65° 43'		2216	
	3	46.6 44.4	-	64° 46'		2122	
	4	45.3 43.1	-	64° 05'		2058	
	5	44.4 42.2	-	63° 27'		2001	
	6	43.0 40.8	-	62° 36'		1929	
	7	41.4 39.2	-	61° 98'		1865	
	8	40.0 37.8	-	60° 98'		1789	
	9	38.6 36.4	-	59° 44'		1714	
	10	37.2 35.0	-	58° 21'		1622	
	11	35.6 33.4	-	57° 10'		1550	Beginning of Kelp
	12	34.5 32.3	-	56° 12'		1494	
	13	33.6 31.4	-	55° 06'		1433	
	14	32.8 30.6	-	54° 16'		1390	
	15	32.1 29.9	-	53° 17'		1341	
	16	31.7 29.5	-	52° 32'		1305	
	17	31.2 29.0	-	52° 01'		1281	
	18	30.5 28.3	-	51° 32'		1259	
	19	30.2 28.0	-	50° 43'		1222	
	20	29.7 27.5	-	50° 14'		1202	

15700

O-1A



Shots	1-21	22-48
Zero	-0.8	-1.1
Boat	+1.0	+1.0
Tide	-2.4	-2.5
	-2.2	-2.6

76L298 307 4-50

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STATION		B. S.	H. I.		F. S.	ELEV.		
inst AT.	sight on	#	Color		Time	Hor. Ang.		Remarks
		21	29.2	27.0		49° 35'	1174	Cut in Line 5+00
		22	28.4	25.8	-	48° 32'	1132	
		23	27.7	25.1	-	47° 25'	1088	
		24	27.1	24.5	-	46° 10'	1042	
		25	26.4	23.8	-	45° 08'	1005	
		26	25.8	23.2	-	44° 02'	967	
		27	25.3	22.7	-	42° 50'	927	
		28	24.9	22.3	-	42° 03	902	
15+00	D-1A	29	24.3	21.7	-	40° 59	869	
		30	23.1	20.5	-	40° 15'	847	
		31	22.2	19.6	-	39° 17'	818	
		32	20.9	18.3	-	37° 32'	768	
		33	20.4	17.8	-	36° 22'	736	
		34	19.7	17.1	-	35° 08'	704	
		35	18.2	15.6	-	33° 14'	655	
		36	17.3	14.7	-	32° 02'	626	
		37	16.2	13.6	-	30° 07'	580	
		38	15.2	12.6	-	29° 03'	555	
		39	14.4	11.8	-	27° 57'	531	
		40	14.3	11.7	-	26° 32'	499	

Shot	1-12	22-48
Zero	-0.8	-1.1
Boat	+1.0	+1.0
Tide		-2.5
		-2.6

F. B. 2286 Pg. 22 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 6-27-57 Date 10-52 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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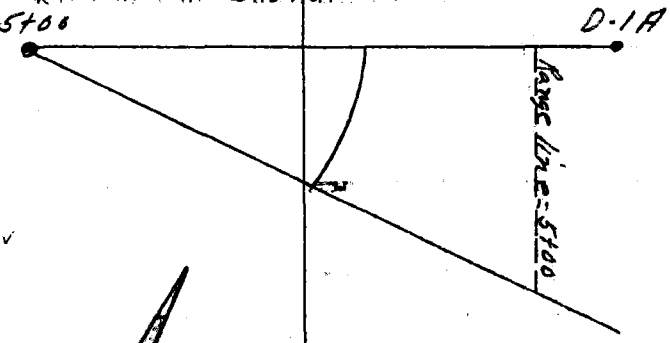
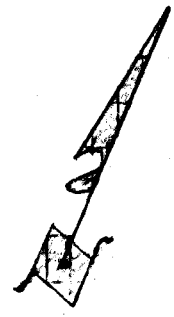
STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		41	12.7	10.1		24° 33'	457
		42	11.3	8.7		22° 48'	420
		43	11.2	8.6		21° 13'	388
		44	10.5	7.9		19° 40'	357
		45	9.5	6.9		17° 35'	317
		46	8.8	6.2		16° 06'	289
		47	8.6	6.0		14° 55'	266
15+00	D-1A	48	7.9	5.3	7:59	13° 03'	232

Cut in Line 5+00
Rock 18' back at 5.9'
Rack at this shot at 5.4'





Shots	22 - 48
Zero	-1.1
Boat	+1.0
Tide	-2.5
	-2.6

Profile Notes Red. JSH Plotted JSH Job No. 0075.14 Division No. 10 F. B. 2286 Pg. 23
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes P.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

F. B. 2286 Pg. 24 | Job No. 0075.14 Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Small Craft Harbor | Date 6-27-57 | Date 10-57 | No. | X-Sec.

Survey by Van Deren Notes Ralph Turrill | Notes Chkd JCN | Checked JCN

Indexed K. C. Johnson Date | Date 10-57 | Date 10-57 | No.

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

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76298 S & E #307—7-55

76298 S & E #307—7-55

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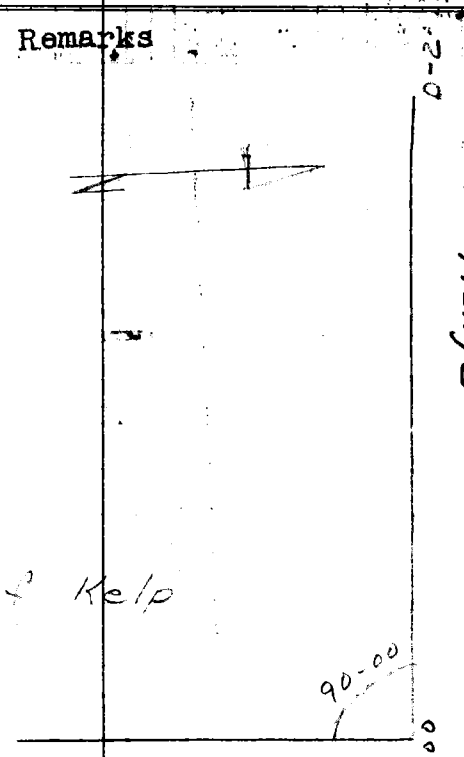
Profile Notes Red. JSH Plotted JSH Job No. [illegible] Division No. [illegible] F. B. 2286 Pg. 25
No. Date 10-57 Date 10-57 Survey of [illegible]
X-Sec. Notes Chkd. VCN Checked VCN Survey by [illegible] Notes [illegible] Date
No. Date 10-57 Date 10-57 Map No. [illegible] Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
5+00	0-2	1			7 49	90 —	
		2			7 49	90 —	
		3			7 49	90 —	
		4			7 49	90 —	
		5			7 49	90 —	
		6			7 49	90 —	
		7			7 49	90 —	
		8			7 50	90 —	
		9			7 50	90 —	
		10			7 50	90 —	
		11			7 50	90 —	
		12			7 50	90 —	beginning of Kelp
		13			7 51	90 —	
		14			7 51	90 —	
		15			7 51	90 —	
		16			7 51	90 —	
		17			7 51	90 —	
		18			7 51	90 —	
		19			7 52	90 —	
		20			7 52	90 —	



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F. B. 2286 Pg. 26 | Job No. [illegible] | Division No. 10 | Notes Red. JSH Plotted JSH
Survey of [illegible] | Date 6-27-57 Date 10-57 No. | Profile
Survey by L. C. Goodwin | Notes Chkd. VCN Checked VCN | X-Sec.
Indexed [illegible] | Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
5400 / D-2	21		7 52	90 —		Range
	22		7 52	90 —		
	23		7 53	90 —		
	24		7 53	90 —		
	25		7 52	90 —		
	26		7 53	90 —		
	27		7 53	90 —		
	28		7 54	90 —		
	29		7 54	90 —		
	30		7 54	90 —		
	31		7 54	90 —		
	32		7 55	90 —		
	33		7 55	90 —		
	34		7 55	90 —		
	35		7 55	90 —		
	36		7 56	90 —		
	37		7 56	90 —		
	38		7 56	90 —		
	39		7 56	90 —		
	40		7 56	90 —		

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
5+00	D-2	41			7 56	90 -	
		42			7 57	90 -	Range
		43			7 57	90 -	
		44			7 57	90 -	
		45			7 58	90 -	
		46			7 58	90 -	
		47			7 58	90 -	
		48			7 59	90 -	

Profile Notes Red. JSH Plotted JCN Job No. [illegible] Division No. [illegible]
No. Date 10-57 Date 10-57 Survey of [illegible]
X-Sec. Notes Chkd. JCN Checked JSH Survey by [illegible] Notes Goodwin Date 6-27-57
No. Date Date Map No. [illegible] Date

F. B. 2286 Pg. 27

F. B. 2286 Pg. 28 | Job No. 6075.20 Division No. 10 | Notes Red. JCN | Plotted JSH | Profile

Survey of Small Craft Harbor | Date 6-27-57 | Date 10-57 | No.

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

Indexed A. C. Johnson Date | Date 10-57 | Date 10-57 | No.

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

Do not extend notes this side of this line.

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76298 S & E #307—7-55

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 12+50	Sight on 10+00
T.P.	0 99	7 92		6 93	Insborc	
10+00		+	7 3	15 2	10+00	Brk.
56'R		+	9 7	17 6	T.S.	
			4 5	3 4	13° 00' 58	
			8 1	-0 2	20 21 93	
			11 1	-3 2	32 41 161	
			12 9	-5 0	42 00 225	
			14 4	-6 5	47 35 274	
			16 3	-8 4	52 05 321	
T.P.			2 05	5 87		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 29
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Ed Date 6-27-57.
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76L298 307 4-50

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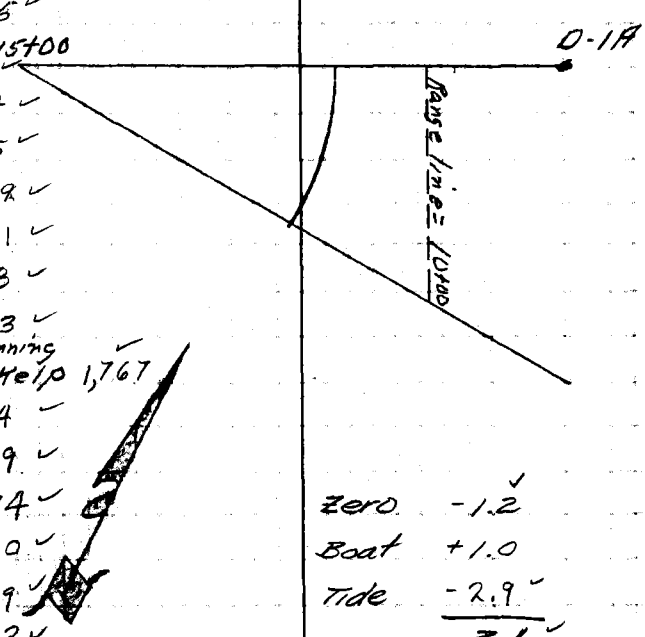
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. Sight At	Sight On	B. S.	H. I.	F. S.	ELEV.	Remarks
			# Color	Time Hor. Ang.		
		1	51.4 48.3	8:13	78° 20	2,422 Cut in Line 10+00
		2	50.2 47.1		77° 55	2,336
		3	48.5 45.4		77° 25	2,240 15+00
		4	47.3 44.2		77° 13	2,204
		5	46.3 43.2		76° 49	2,135
		6	45.0 41.9		76° 21	2,059
15+00	D-1A	7	43.9 40.8		75° 50	1,981
		8	42.2 39.1		75° 32	1,938
		9	41.2 38.1		75° 03	1,873
		10	40.1 37.0		74° 12	Beginning of Kelp 1,767
		11	39.3 36.2		73° 44	1,714
		12	38.3 35.2		73° 08	1,649
		13	37.7 34.6		72° 35	1,594
		14	37.1 34.0		72° 14	1,560
		15	36.2 33.1		71° 47	1,519
		16	34.6 31.5		70° 53	1,443
		17	33.8 30.7		70° 22	1,402
		18	33.1 30.0		69° 41	1,350
		19	32.5 29.4		68° 48	1,289
		20	31.6 28.5		67° 52	1,229



Zero	-1.2
Boat	+1.0
Tide	-2.9
	-3.1

Profile Notes Red. JSH Plotted JCN Job No. 00 2584 Division No. 10 F. B. 2286 PG. 31
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst AT	Sight on	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
		21	30.5	27.4		66° 50'	1,129	Cut in Line 10+00
		22	29.9	26.8		66° 03'	1,126	
		23	29.3	26.2		65° 19'	1,088	
		24	28.3	25.2		64° 34'	1,051	
		25	27.5	24.4		63° 22'	997	
		26	26.8	23.7		62° 21'	954	
		27	26.3	23.2		61° 02'	903	
		28	25.6	22.5		60° 03'	868	
15+00	D-1A	29	24.4	21.3		59° 00'	832	Zero -1.2
		30	23.8	20.7		57° 44'	792	Boat +1.0
		31	22.3	19.2		56° 10'	746	Tide -2.9
		32	21.1	18.0		54° 40'	705	-3.1
		33	20.4	17.3		53° 08'	667	
		34	20.3	17.2		52° 20'	648	
		35	18.3	15.2		50° 16'	602	
		36	17.7	14.6		48° 25'	563	
		37	16.4	13.3		47° 04'	537	
		38	15.3	12.2		44° 47'	496	
		39	14.5	11.4		44° 12'	486	
		40	13.2	10.1		41° 16'	439	

F. B. 2286 Pg. 32 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 6-27-57 Date 10-57 No.
Survey by VanDeren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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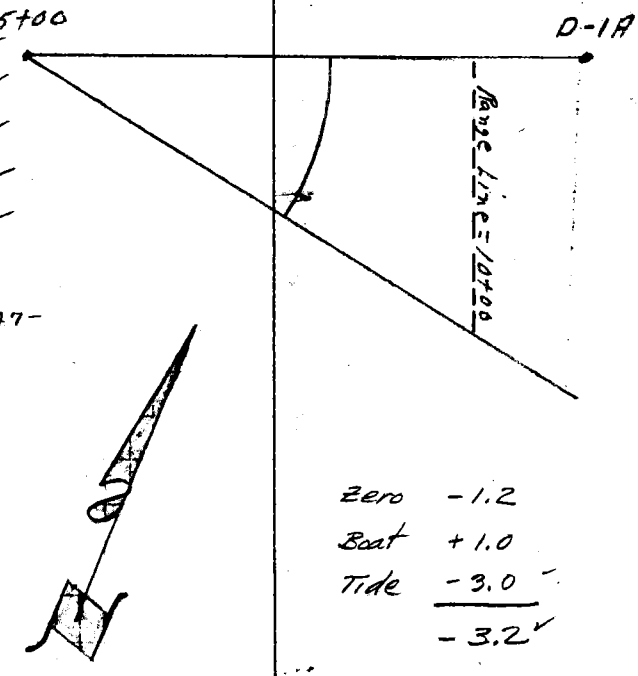
STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		41	13.5	10.3		39° 04	406
		42	11.9	8.7		36° 44	373
		43	10.7	7.5		33° 52'	336
		44	9.3	6.1		30° 50'	298
		45	8.9	5.7		27° 07'	256
		46	7.5	4.3		24° 18'	226
15+00	D-1A	47	6.3	3.1	8:23	20° 56'	191

Cut in Line 10+00



Rocks between shots 40+47 - highest rock at 2.3'

Zero -1.2
Boat +1.0
Tide -3.0
-3.2

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 33
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Kindred Johnson Date

F. B. 2286 Pg. 34 | Job No. 007524 Division No. 10 | Notes Red. JCN | Plotted JCN | Profile

Survey of Small Craft Harbor | Date 6-27-57 | Date 10-57 | No.

Survey by Van Deren Notes Ralph Turrill | Notes Chkd. JSH | Checked JSH | X-Sec.

Indexed K. C. Johnson Date | Date 10-57 | Date 10-57 | No.

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

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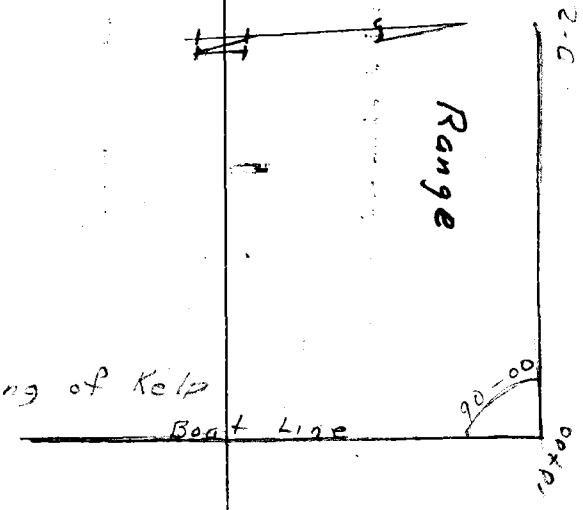
Profile Notes Red VSH Plotted VSH Job No. Division No. F. B. 2286 Pg. 35
No. Date 12-5-52 Date 12-5-52 Survey of
X-Sec. Notes Chkd VCM Checked VCM Survey by Notes Date
No. Date 12-5-52 Date 12-5-52 Map No. Inspected by Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
10+00	D-2	1			8 13	90 —	8.13
		2			8 13	90 —	
		3			8 13	90 —	
		4			8 14	90 —	
		5			8 14	90 —	
		6			8 14	90 —	
		7			8 14	90 —	
		8			8 15	90 —	
		9			8 15	90 —	
		10			8 15	90 —	
		11			8 15	90 —	beginning of Kelp
		12			8 15	90 —	Boat Line
		13			8 16	90 —	
		14			8 16	90 —	
		15			8 16	90 —	
		16			8 17	90 —	
		17			8 17	90 —	
		18			8 17	90 —	
		19			8 17	90 —	
		20			8 17	90 —	



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F. B. 2186 Pg. 36 | Job No. [illegible] Division No. 12 Notes Red. JSH Plotted JSH Profile
Survey of [illegible] Date 10-57 Date 10-57 No. X-Sec.
Survey by H. C. Johnson Notes [illegible] Notes Chkd. JCN Checked JCN
Indexed [illegible] Date 6-27-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
10+00	D-2	21		8 17	90 —		
		22		8 18	90 —	Range	
		23		8 18	90 —		
		24		8 18	90 —		
		25		8 18	90 —		
		26		8 18	90 —		
		27		8 19	90 —		
		28		8 19	90 —		
		29		8 19	90 —		
		30		8 19	90 —		
		31		8 19	90 —		
		32		8 20	90 —		
		33		8 20	90 —		
		34		8 20	90 —		
		35		8 20	90 —		
		36		8 21	90 —		
		37		8 21	90 —		
		38		8 21	90 —		
		39		8 21	90 —		
		40		8 22	90 —		

76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
[illegible]	D-2	41			8 22	90 —	Range
		42			8 22	90 —	
		43			8 22	90 —	
		44			8 22	90 —	
		45			8 22	90 —	
		46			8 23	90 —	
		47			8 23	90 —	

Profile Notes Red. JSH Plotted JSH Job No. [illegible] Division No. [illegible] F. B. 2286 Pg. 37
No. Date 10-57 Date 10-57 Survey of [illegible]
X-Sec. Notes Chkd. JCN Checked JCN Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 10-57 Date 10-57 Map No. [illegible] Kindled Johnson Date

F. B. 2286 Pg. 38

Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JSH

Survey of [illegible] Date 10-57 Date 10-57 No.

Survey by Van Deren Notes J.C. Goodwin Notes Chkd. JCN Checked JCN

Indexed A. C. Johnson Date 6-27-57 Date 10-57 Date 10-57 No.

Profile

X-Sec.

76298 S & E #307—7-55

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

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 12+50	Sight on 15+00
T.P.	3 10	8 97		5 87		Inshore
15+00		+	10 3	19 3	Brk.	15+00
55' S.		+	11 8	20 8	T.S.	
			3 7	5 3	15° 01' 67'	
			7 4	1 6	20 56 96'	
			10 0	-1 0	28 50 138'	
			12 4	-3 4	35 44 180'	
			14 0	-5 0	40 19 212'	
			15 1	-6 1	43 19 236'	
			15 3	-6 3	47 57 277'	
T.P.	9 09	17 53	0 52	8 45		
16+71 69	2 33	17 53	2 33	15 20	D-2, el-15.203,	F.B. 2243-8 43
T.P.			9 95	7 58		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 39
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by [illegible] Notes [illegible] Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

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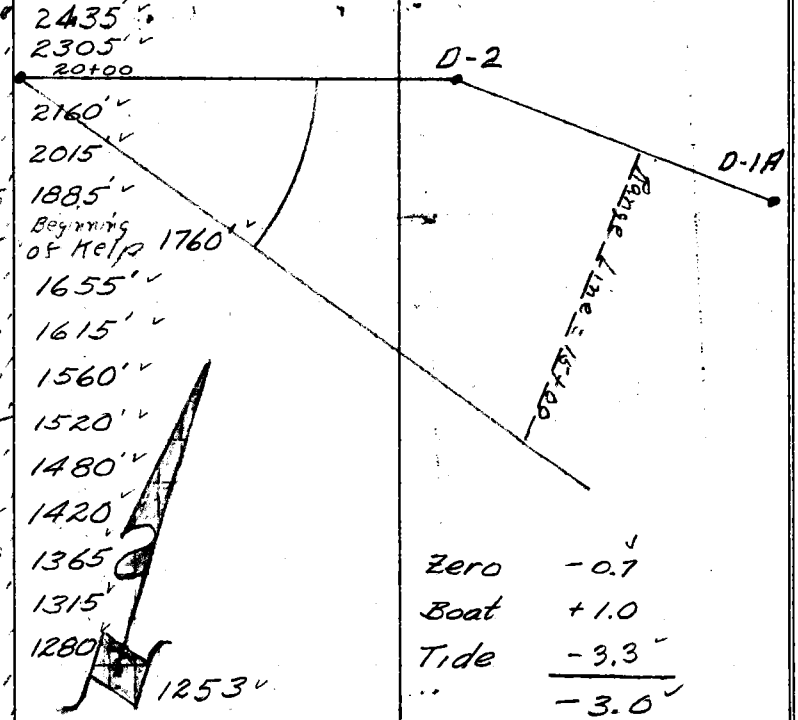
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
20+00	D-2	1	51.4	48.4	8:37	79° 56'	2482' Cut in Line 15+00
		2	49.2	46.2		79° 44'	2435'
		3	47.2	44.2		79° 02'	2305' 20+00
		4	44.9	41.9		78° 18'	2160'
		5	42.0	39.0		77° 11'	2015'
		6	40.0	37.0		76° 25'	1885'
		7	38.4	35.4		75° 25'	Beginning of Kelp 1760'
		8	36.6	33.6		74° 29'	1655'
		9	35.5	32.5		74° 07'	1615'
		10	35.0	32.0		73° 33'	1560'
		11	34.7	31.7		73° 05'	1520'
		12	34.1	31.1		72° 36'	1480'
		13	33.5	30.5		71° 55'	1420'
		14	32.0	29.0		71° 09'	1365'
		15	30.7	27.7		70° 28'	1315'
		16	30.7	27.7		69° 54'	1280'
		17	30.4	27.4		69° 31'	1253'
		18	30.1	27.1		69° 24'	1250'
		19	30.0	27.0		68° 52'	1214'
		20	29.3	26.3		68° 33'	1198'



Zero	-0.7
Boat	+1.0
Tide	-3.3
	-3.0

Profile Notes Red. JSH Plotted JSH Job No. 2075.24 Division No. 10 F. B. 2286 Pg. 41
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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F. B. 2286 Pg. 42 | Job No. 22514 Division No. 10 Notes Red. VSH Plotted VSH Profile
Survey of Small Craft Harbor Date 12-57 Date 12-57 No. X-Sec.
Survey by Van Loen Notes Ralph Turrill Notes Chkd. VCM Checked VCM
Indexed K C. Johnson Date 6-27-57 Date 12-57 Date 12-57 No.

STATION		B. S.	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks	
Inst. At	Sight On	#							
		21	28.0	24.9	—	67° 57'	1160'	Cut in Line 15+00	
		22	29.3	26.2	—	67° 07'	1119'		
		23	28.3	25.2	—	66° 36'	1092'		
		24	27.4	24.3	—	65° 34'	1042'		
		25	26.4	23.3	—	64° 11'	984'		
		26	25.5	22.4	—	62° 46'	928'		
		27	24.6	21.5	—	61° 36'	884'		
		28	23.6	20.5	—	60° 33'	849'		
		29	22.5	19.4	—	58° 48'	793'	Zero	-0.7
20+00	O-2	30	21.6	18.5	—	58° 00'	770'	Boat	+1.0
		31	20.4	17.3	—	56° 06'	715'	Tide	-3.4
		32	19.2	16.1	—	55° 00'	690'		-3.1
		33	17.7	14.6	—	53° 14'	646'		
		34	17.5	14.4	—	52° 30'	629'	?	
		35	16.6	13.5	—	52° 30'	629	?	
		36	15.8	12.7	—	50° 37'	590'		
		37	15.0	11.9	—	48° 20'	541'		
		38	15.7	12.6	—	47° 23'	525'		
		39	15.3	12.1	—	45° 50'	500'		
		40	14.2	11.1	—	44° 00'	470'		

76L298 307 4-50

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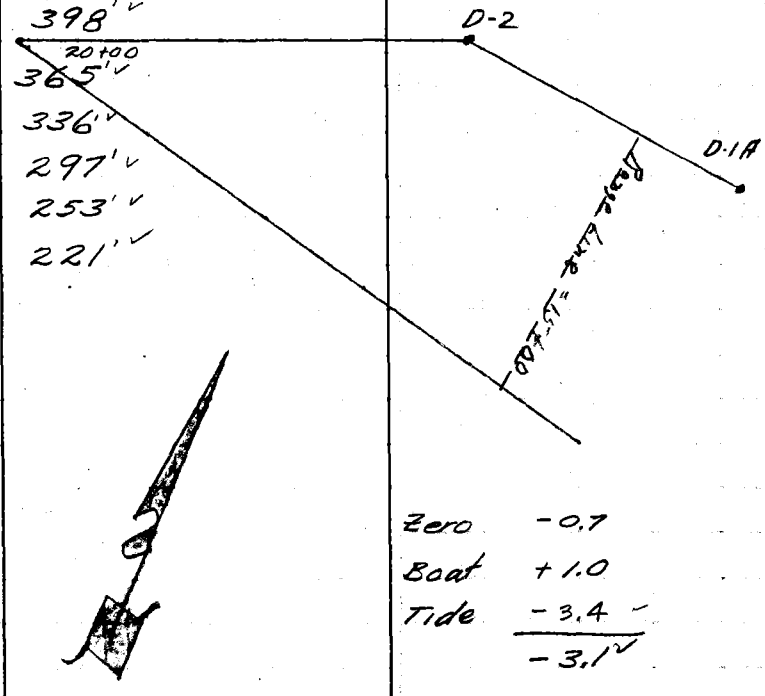
STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	41	13.6 10.5		42° 22'	442' Cut in Line 15+00
	42	13.4 10.3		40° 01'	408'
	43	13.1 10.0		39° 16'	398'
	44	10.0 6.9		36° 52'	365' 20+00
	45	9.8 6.7		34° 39'	336'
	46	8.5 5.4		31° 20'	297'
	47	6.8 3.7		27° 35'	253'
20+00 D-2	48	6.5 3.4	8:47	24° 35'	221'

Rock at shot 47 at 2.9'



Zero	-0.7
Boat	+1.0
Tide	-3.4
	-3.1

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 43
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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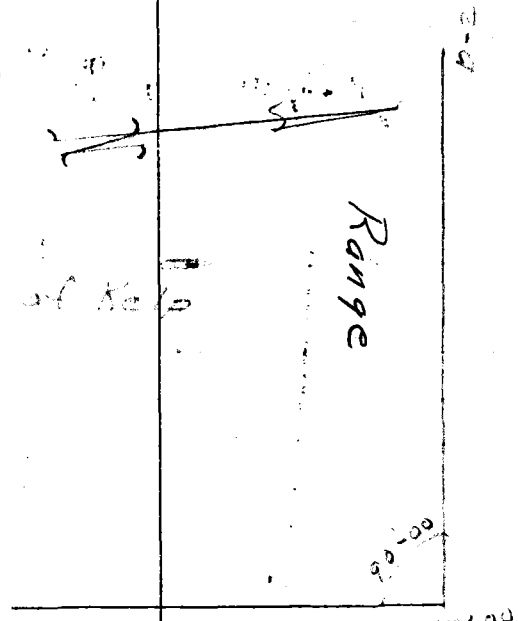
Profile Notes Red. VCN Plotted VCN Job No. [illegible] Division No. [illegible] F. B. 2286 Pg. 45
No. Date 10-57 Date 10-57 Survey of [illegible]
X-Sec. Notes Chkd. VCN Checked VCN Survey by [illegible] Notes [illegible] Date [illegible]
No. Date 10-57 Date 10-57 Map No. [illegible] Date

STATION		B. S.	H. I.		F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.	
15+00	D.C.	1			8 37	90 —	
		2			8 37	90 —	
		3			8 37	90 —	
		4			8 38	90 —	
		5			8 38	90 —	
		6			8 38	90 —	
		7			8 39	90 —	Beginning of Note
		8			8 39	90 —	
		9			8 39	90 —	
		10			8 39	90 —	
		11			8 40	90 —	
		12			8 40	90 —	
		13			8 40	90 —	
		14			8 40	90 —	
		15			8 40	90 —	
		16			8 41	90 —	
		17			8 41	90 —	
		18			8 41	90 —	
		19			8 41	90 —	
		20			8 41	90 —	



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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
15+00	D-2	21		8 42	90 —		
		22		8 42	90 —	Range	
		23		8 42	90 —		
		24		8 42	90 —		
		25		8 43	90 —		
		26		8 43	90 —		
		27		8 43	90 —		
		28		8 43	90 —		
		29		8 44	90 —		
		30		8 44	90 —		
		31		8 44	90 —		
		32		8 44	90 —		
		33		8 44	90 —		
		34		8 45	90 —		
		35		8 45	90		
		36		8 45	90 —		
		37		8 45	90 —		
		38		8 45	90 —		
		39		8 46	90 —		
		40		8 46	90 —		

F. B. 2286 Pg. 46 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes J.C. Goodwin Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date 6-27-57 Date 10-57 Date 10-57 No.

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
15+00	D-2	41		8 46	90 —	
		42		8 46	90 —	Range
		43		8 46	90 —	
		44		8 47	90 —	
		45		8 47	90 —	
		46		8 47	90 —	
		47		8 47	90 —	
		48		8 49	90 —	

Profile No. ____ Notes Red. JCN Date 10-57 Plotted KRK Date 10-57 Job No. 007524 Division No. 10 Survey of Small Craft Harbor F. B. 2286 Pg. 47

X-Sec. No. ____ Notes Chkd. KRK Date 10-57 Checked JCN Date 10-57 Survey by Van Doren Map No. ____ Notes Wilks Date 6-27-57 Indexed Johnson Date ____

F. B. 2286 Pg. 48 | Job No. 00529 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Small Craft Harbor | Date | Date | No.

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

Indexed E C Johnson | Date 6-27-57 | Date | Date | No.

76298 S & E #307—7-55

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

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 16+71 69		Sighton 20+00
T.P.	2 44	10 02		7 58			Insboro
20+00		+	4 7	14 7			20+00
45'L		+	6 3	6 3	Brk.	ft.	
			3 5	6 5	15 34	92'	
			8 7	1 3	22 21	137'	
			11 8	-1 8	28 44	183'	
			15 4	-5 4	36 22	246'	
			15 8	-5 8	40 25	286'	
			16 7	-6 7	45 03	337'	
T.P.			1 14	8 08			

Profile Notes Red. KRK Plotted KRK Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 49
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JCN Survey by English Notes Ed Date 6-27-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76L298 307 4-50

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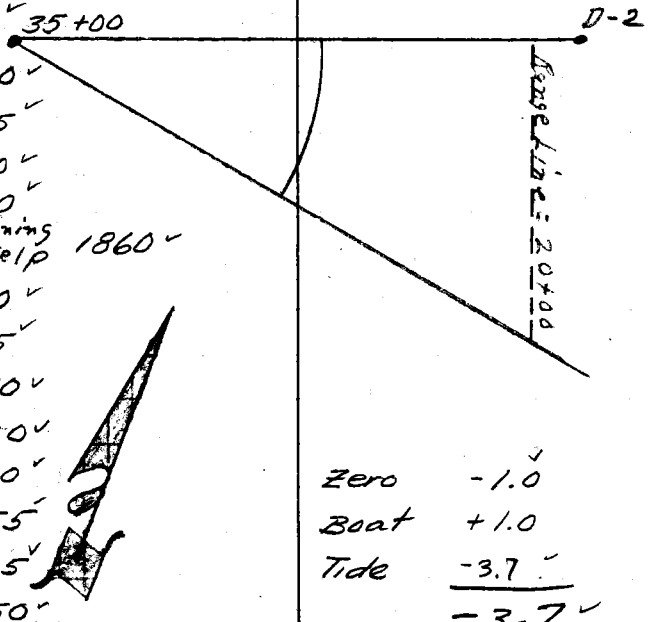
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	1	51.7' 48.0	9:02	61° 05'	2600	Cut in Line 20+00
	2	49.3' 45.6		59° 40'	2460	
	3	47.8' 44.1		58° 29'	2355	35+00 D-2
	4	45.6' 41.9		57° 08'	2240	
	5	43.4' 39.7		55° 26'	2105	
	6	41.5' 37.8		54° 08'	2010	
35+00 D-2	7	40.4' 36.7		52° 58'	1930	
	8	39.4' 35.7		51° 57'	Beginning of Kelp 1860	
	9	38.8' 35.1		50° 29'	1770	
	10	37.7' 34.0		49° 36'	1715	
	11	37.2' 33.5		48° 53'	1670	
	12	36.5' 32.8		48° 28'	1650	
	13	35.5' 31.8		47° 21'	1590	
	14	34.4' 30.7		46° 47'	1555	
	15	33.5' 29.8		45° 50'	1505	
	16	32.9' 29.2		44° 44'	1450	
	17	32.7' 29.0		43° 59'	1410	
	18	31.7' 28.0		43° 03'	1370	
	19	30.3' 26.6		42° 08'	1330	
	20	29.5' 25.8		41° 22'	1290	



Zero	-1.0
Boat	+1.0
Tide	-3.7
	-3.7

Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 51
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes R.T. Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

76L298 307 4-50

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STATION		B. S.	M. I.	F. S.	ELEV.		
Inst at	Sight on	#	Depth Rec.	Time	Hor. Ang.	Remarks	
		21	28.5' ✓ 24.8 ✓		39° 03	1195 ✓	Cut in Line 20+00
		22	27.1' ✓ 23.4 ✓		37° 52'	1145 ✓	
		23	25.5' ✓ 21.8 ✓		36° 45'	1100 ✓	
		24	24.1 ✓ 20.4 ✓		35° 43'	1060 ✓	
		25	22.9 ✓ 19.2 ✓		34° 31'	1015 ✓	
		26	22.2' ✓ 18.5 ✓		33° 06'	960 ✓	
		27	21.7' ✓ 18.0 ✓		31° 31'	905 ✓	
		28	21.3' ✓ 17.6 ✓		30° 35'	875 ✓	
35+00		29	21.2' ✓ 17.5 ✓		29° 36'	840 ✓	Zero -1.0 ✓
	D-2	30	20.2' ✓ 16.5 ✓		27° 56'	785 ✓	Boat +1.0
		31	19.6' ✓ 15.9 ✓		26° 26'	742 ✓	Tide -3.7 ✓
		32	18.3' ✓ 14.6 ✓		25° 19'	705 ✓	
		33	18.0' ✓ 14.3 ✓		24° 06'	665 ✓	-3.7 ✓
		34	17.5' ✓ 13.8 ✓		22° 57'	632 ✓	
		35	15.7' ✓ 12.0 ✓		22° 00'	600 ✓	
		36	15.2' ✓ 11.5 ✓		20° 55'	572 ✓	
		37	13.0' ✓ 9.3 ✓		19° 04'	515 ✓	
		38	12.7' ✓ 9.0 ✓		18° 13'	492 ✓	
		39	11.1' ✓ 7.4 ✓		17° 00'	455 ✓	Rock 15' ahead at 7.1'
		40	11.4' ✓ 7.7 ✓		14° 48'	395 ✓	

F. B. 2286 Pg. 52 Job No. 007524 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Ralph Turrill Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

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Profile Notes Red. JCW Plotted JCW Job No. 207314 Division No. 10 F. B. 2286 Pg. 53
No. Date 12-57 Date 12-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JJH Survey by Van Dyken Notes R.T. Date 6-27-57
No. Date 12-27 Date 12-57 Map No. Location Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.	
	41	9.4 - 5.6 ✓		12° 58'	348' Cut in line 20+00
	42	9.7 - 5.9 ✓		11° 42'	310' ✓
	43	9.7 - 5.9 ✓		10° 48'	385' ✓ 35+00
	44	9.4 - 5.6 ✓		09° 37'	255' ✓
	45	9.2 - 5.4 ✓	9:13	08° 46'	230' ✓
		Rack at 335' at 4.3			
35+00 / D-2					D-2
					Range Line = 20+00
					Zero -1.0 ✓
					Boat +1.0
					Tide -3.8 ✓
					... -3.8 ✓

F. B. 2286 Pg. 54 Job No. 007524 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

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

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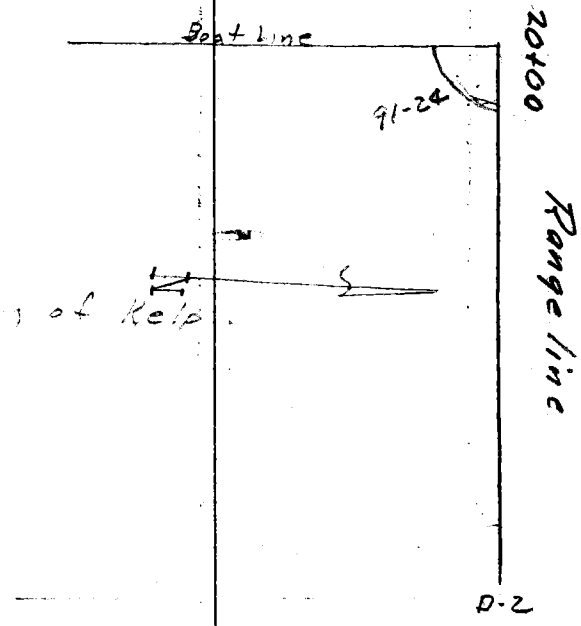
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
20+00	D-2	1			9 02	91 24	
		2			9 03	91 24	
		3			9 03	91 24	
		4			9 03	91 24	
		5			9 04	91 24	
		6			9 04	91 24	
		7			9 04	91 24	
		8			9 04	91 24	beginning of Kelp
		9			9 04	91 24	
		10			9 05	91 24	
		11			9 05	91 24	
		12			9 05	91 24	
		13			9 05	91 24	
		14			9 05	91 24	
		15			9 06	91 24	
		16			9 06	91 24	
		17			9 06	91 24	
		18			9 06	91 24	
		19			9 06	91 24	
		20			9 07	91 24	



Profile No. ____ Notes Red. JSH Plotted JSH Job No. 00752 Division No. ____ F. B. 2286 Pg. 55
Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. No. ____ Notes Chkd. KRK Checked KRK Survey by Van Doren Notes Wilks Date 6-27-57
Date 10-57 Date 10-57 Map No. ____ Date ____

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F. B. 2286 Pg. 56 | Job No. 00252 Division No. 10 Notes Red. JSH Plotted JSH
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deusen Notes Wilks Notes Chkd. KEK Checked KRK
Indexed C. Johnson Date Date 10-57 Date 10-57 No. Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
	21		9 07	91 24		
	22		9 07	91 24	Range	
	23		9 07	91 24		
	24		9 08	91 24		
	25		9 08	91 24		
	26		9 08	91 24		
	27		9 08	91 24		
	28		9 08	91 24		
	29		9 09	91 24		
	30		9 09	91 24		
	31		9 09	91 24		
	32		9 10	91 24		
	33		9 10	91 24		
	34		9 10	91 24		
	35		9 10	91 24		
	36		9 10	91 24		
	37		9 11	91 24		
	38		9 11	91 24		
	39		9 11	91 24		
	40		9 12	91 24		

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
20+00	D-2	41			9 12	91	24	Range
		42			9 12	91	24	
		43			9 12	91	24	
		44			9 12	91	24	
		45			9 13	91	24	

Profile Notes Red. JSH Plotted JSH Job No. 0075.26 Division No. 10 F. B. 2286 Pg. 57
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. KRK Checked KRK Survey by Van Deren Notes [illegible] Date 6-27-57
No. Date 10-57 Date 10-57 Map No. [illegible] Johnson Date

F. B. 2286 Pg. 58 | Job No. 2075.29 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Small Craft Harbor | Date | Date | No.

Survey by Vaquero Notes W.M.S. | Notes Chkd. | Checked | X-Sec.

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

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

Do not extend notes this side of this line.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at. 27+50	Sight on 25+00
T.P.	2 30	10 38		8 08		Insbore 25+00
25+00		+	8 3	18 7		
47' R.		+	15 3	25 7		
65' L		+	4 3	14 7	Brk.	
			3 5	6 9	22 29 102	
			8 3	2 1	30 12 144	
			[illegible]	-0 5	36 37 182	
			13 7	-3 3	43 48 234	
			16 9	-6 5	49 47 288	
T.P.			2 05	8 33		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 59
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Ed Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Index Johnson Date

76L298 307 4-50

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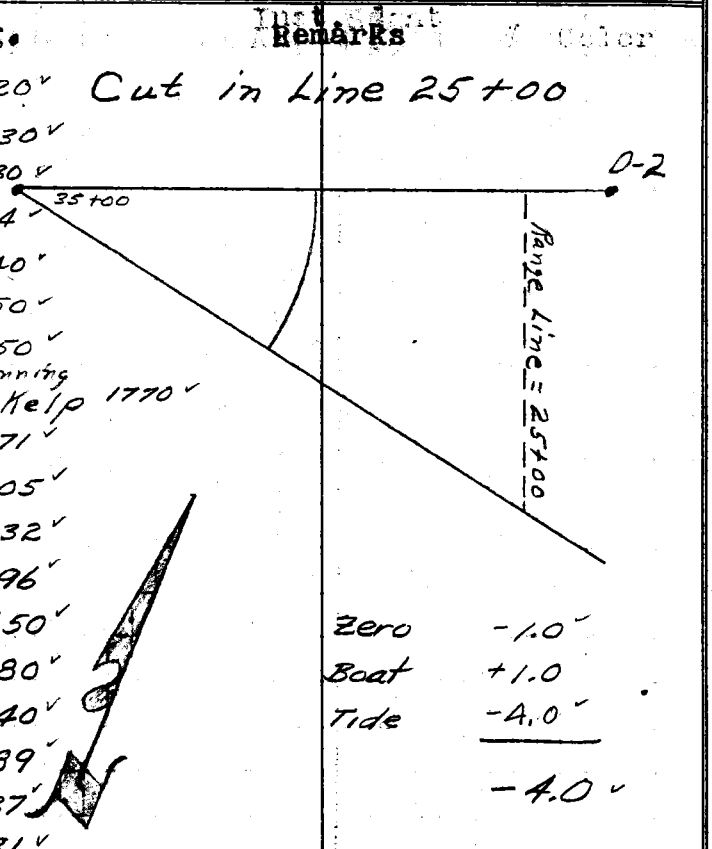
Do not extend notes this side of this line.

Profile Notes Red. JCN Plotted KRK Job No 437.24 Division No. 10 F. B. 2284 Pg. 61
No. Date 12-57 Date 12-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by VanDeren Notes RT Date 12-27-57
No. Date 1-6-58 Date 1-6-58 Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight # Color Time Hor. Ang.	Remarks
Inst. At 35+00	On 0-2					
	1	49.0'-45.0'	9:32	69° 37'	2520'	Cut in Line 25+00
	2	46.2'-42.2'		68° 00'	2330'	
	3	44.0'-40.0'		67° 01'	2230'	
	4	42.3'-38.3'		65° 55'	2124'	
	5	41.3'-37.3'		65° 01'	2040'	
	6	40.3'-36.3'		63° 59'	1950'	
	7	39.4'-35.4'		62° 47'	1850'	
	8	37.8'-33.8'		61° 36'	Beginning of Kelp 1770'	
	9	36.7'-32.7'		60° 08'	1671'	
	10	35.3'-31.3'		59° 06'	1605'	
	11	34.4'-30.4'		57° 52'	1532'	
	12	33.8'-29.8'		57° 12'	1496'	
	13	33.3'-29.3'		56° 19'	1450'	
	14	32.6'-28.6'		54° 56'	1380'	
	15	30.9'-26.9'		54° 08'	1340'	
	16	29.9'-25.9'		52° 59'	1289'	
	17	29.2'-25.2'		51° 54'	1237'	
	18	28.3'-24.3'		50° 37'	1181'	
	19	27.3'-23.3'		49° 22'	1131'	
	20	26.2'-22.2'		47° 40'	1070'	



Zero	-1.0'
Boat	+1.0
Tide	-4.0'
	-4.0'

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. AT.	Sight on	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks		
		21	24.8'	20.8		45° 56'	1009	Cut in Line 25+00	
		22	22.8'	18.8		44° 26'	958		
		23	20.8'	16.8		43° 02'	911		
		24	19.9'	15.9		41° 39'	870		
		25	19.5'	15.9		40° 28'	837		
		26	18.0'	14.0		38° 58'	792		
		27	16.6'	12.6		37° 13'	745		
		28	14.8'	10.8		35° 21'	699		
35+00	D-2	29	13.5'	9.5		33° 34'	650		
		30	13.2'	9.2		31° 30'	603		Zero -1.0
		31	11.8'	7.8		29° 23'	556	Rock 33' ahead at 6.4'	Boat +1.0
		32	12.0'	8.0		27° 46'	523		Tide -4.0
		33	12.4'	8.4		25° 47'	480		-4.0
		34	12.0'	8.0		24° 05'	442		
		35	11.0'	7.0		22° 16'	407		
		36	8.7'	4.7		20° 48'	375	Rocks from shot 36 to 40 -	
		37	7.7'	3.7		19° 07'	344	highest rock at 2.5'	
		38	7.8'	3.8		17° 38'	317		
		39	8.2'	4.2		15° 56'	283		
		40	7.9'	3.9	9:40	14° 19'	256		

F. B. 2286 Pg. 62 Job No. 0075.26 Division No. 10 Notes Red. JCN Plotted KRK Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes P.T. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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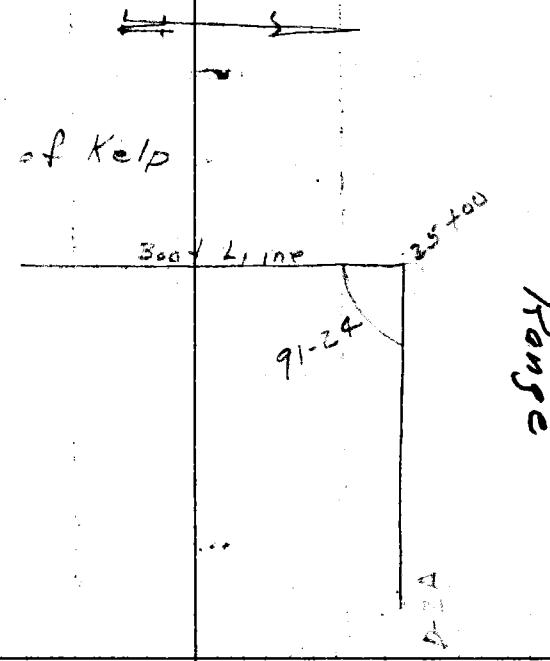
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
25+00	D-2[illegible]	1			9 32	91 24	
		2			9 33	91 24	
		3			9 33	91 24	
		4			9 33	91 24	
		5			9 33	91 24	
		6			9 33	91 24	
		7			9 34	91 24	
		8			9 34	91 24	begining of Kelp
		9			9 34	91 24	
		10			9 34	91 24	
		11			9 35	91 24	
		12			9 35	91 24	
		13			9 35	91 24	
		14			9 35	91 24	
		15			9 35	91 24	
		16			9 35	91 24	
		17			9 36	91 24	
		18			9 36	91 24	
		19			9 36	91 24	
		20			9 36	91 24	



Profile Notes Red. JCN Plotted JCN Job No. 007524 Division No. 10 F. B. 2286 Pg. 63
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Dercu Notes Wilks Date 6-27-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
25+00	0 24	21		9 36	91 24		
		22		9 37	91 24	Range	
		23		9 37	91 24		
		24		9 37	91 24		
		25		9 37	91 24		
		26		9 37	91 24		
		27		9 37	91 24		
		28		9 38	91 24		
		29		9 38	91 24		
		30		9 38	91 24		
		31		9 38	91 24		
		32		9 38	91 24		
		33		9 38	91 24		
		34		9 39	91 24		
		35		9 39	91 24		
		36		9 39	91 24		
		37		9 39	91 24		
		38		9 39	91 24		
		39		9 39	91 24		
		40		9 40	91 24		

F. B. 2286 Pg. 64 Job No. 0025.24 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Horen Notes Wilks Notes Chkd. JSH Checked JSH X-Sec.
Indexed R. C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 27+50	Sight on 30+00
T.P.	1 56	9 89		8 33		Inshore
30+00		+	6 6	16 5		30+00
66'R.		+	11 0	20 9	Brk.	
44'L.		+	3 6	13 5	Brk.	
		9 9	3 9	6 0	17° 36' 80	
			8 0	1 9	23 10 108	
			10 3	-0 4	29 43 145	
			14 2	-4 3	37 24 195	
			15 4	-5 5	42 53 237	
			17 2	-7 3	47 49 283	
T.P.	1066	18 64	1 91	7 98		
35+22 57			4 52	14 12	D-3, el=14.125,	F.B. 2243-~~9~~ -43

Profile Notes Red. JCN Plotted JCN Job No. 00075.24 Division No. 10 F. B. 2286 Pg. 65
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JSH Survey by Finish Notes Ed Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Inked Date

76L298 307 4-50

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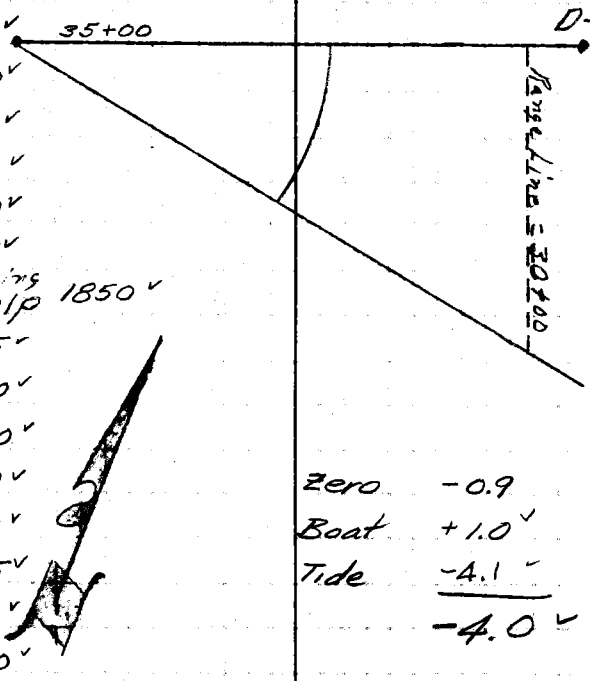
Profile Notes Red JCN Plotted JCN Job No. 42x524 Division No. 10 F. B. 2286 Pg. 67
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JSH Checked JSH Survey by Van Deren Notes RT Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	#	Color	Time	Hor. Ang.	Remarks
Inst. At 35+00	Sight On D-2								
		52.6	48.6	-9.53	1			81° 29'	2860 Cut in Line 30+00
		50.6	46.6		2			81° 10'	2760
		48.3	44.3		3			80° 41'	2635
		46.3	42.3		4			80° 00'	2480
		44.0	40.0		5			79° 13'	2310
		42.1	38.1		6			78° 26'	2170
		39.5	35.5		7			77° 55'	2090
		38.1	34.1		8			76° 56'	1940
		38.2	34.2		9			76° 14'	Beginning of Kelp 1850
		37.4	33.4		10			75° 44'	1795
		36.8	32.8		11			75° 16'	1730
		36.4	32.4		12			75° 07'	1720
		35.9	31.9		13			74° 49'	1690
		34.8	30.8		14			74° 03'	1610
		33.8	29.8		15			73° 32'	1565
		33.0	29.0		16			72° 47'	1490
		32.3	28.3		17			72° 09'	1440
		31.9	27.9		18			71° 35'	1400
		31.8	27.8		19			71° 04'	1360
		31.7	27.7		20			70° 44'	1335



Zero -0.9
Boat +1.0
Tide -4.1
-4.0

76L298 307 4-50

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At.	Sight. on	#	Depth Rec.	Adj	Time	Hor. Ang	Remarks	
		21	30.8	26.8		69° 42'	1265	Cut in Line 30+0.0
		22	30.3	26.3		69° 11'	1230	
		23	29.3	25.3		68° 56'	1220	
		24	28.5	24.5		67° 35'	1140	
		25	27.3	23.3		66° 26'	1085	
		26	26.0	22.0		65° 13'	1025	
		27	24.4	20.4		63° 57'	972	
35+00		28	22.7	18.7		62° 45'	925	
	D-2	29	19.9	15.9		61° 01	860	Zero -0.9
		30	18.2	14.2		59° 54'	825	Boat +1.0
		31	17.2	13.2		58° 21'	780	Tide -4.1
		32	17.0	13.0		57° 14'	745	-4.0
		33	16.7	12.7		55° 00'	690	
		34	16.6	12.6		53° 32'	655	
		35	16.5	12.5		51° 55'	620	
		36	14.7	10.7		48° 50	555	
		37	14.4	10.4		47° 12	525	
		38	14.7	10.7		46° 30'	515	
		39	13.8	9.8		39° 54'	410	
		40	13.3	9.3		38° 11'	385	

F. B. 2286 Pg. 68 Job No. 002524 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date 10-57 Date 10-57 No.

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Profile Notes Red. JCN Plotted JCN Job No 0276.24 Division No. 10 F. B. 2286 Pg. 69
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VSH Checked VSH Survey by Van Deren Notes RT Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
						41	11.7 7.7		35° 42'	350	Cut in Line 30+00
						42	11.0 7.0		32° 04'	310	
						43	10.8 6.8		29° 52'	285	35+00 D-2
						44	10.2 6.2		26° 36'	245	
						45	8.7 4.7	10:05	23° 58'	220	Range Line = 30+00
					35+00 D-2						

zero	-0.9
Boat	+1.0
Tide	-4.1
	-4.0

76298 S & E #307—7-55

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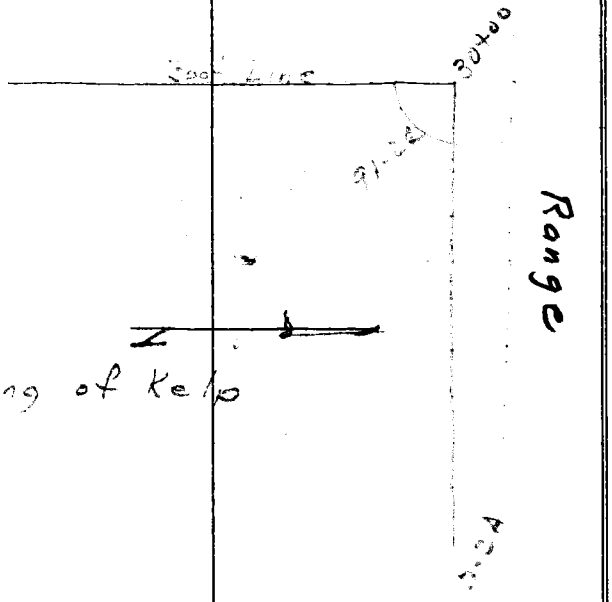
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
30+00	D-2A	1			9 53	91	24	
		2			9 53	91	24	
		3			9 54	91	24	
		4			9 54	91	24	
		5			9 54	91	24	
		6			9 54	91	24	
		7			9 55	91	24	
		8			9 55	91	24	
		9			9 55	91	24	begining of Kelp
		10			9 55	91	24	
		11			9 56	91	24	
		12			9 56	91	24	
		13			9 56	91	24	
		14			9 56	91	24	
		15			9 57	91	24	
		16			9 57	91	24	
		17			9 57	91	24	
		18			9 57	91	24	
		19			9 57	91	24	
		20			9 58	91	24	



Profile Notes Red JSH Plotted JCN Job No. 00175.24 Division No. 10 F. B. 2286 Pg. 71
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JCN Checked JSH Survey by Kerr Dow Notes Wilks Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
30+00	D-2A	21		9 58	91 24		
		22		9 58	91 24	Range	
		23		9 59	91 24		
		24		10 00	91 24		
		25		10 00	91 24		
		26		10 00	91 24		
		27		10 00	91 24		
		28		10 00	91 24		
		29		10 01	91 24		
		30		10 01	91 24		
		31		10 01	91 24		
		32		10 01	91 24		
		33		10 01	91 24		
		34		10 01	91 24		
		35		10 02	91 24		
		36		10 03	91 24		
		37		10 03	91 24		
		38		10 03	91 24		
		39		10 04	91 24		
		40		10 04	91 24		

F. B. 2286 Pg. 72 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Dieren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 6-27-57 Date 10-57 Date 10-57 No.

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
30+00	D-24	41			10 04	91	24	Range
		42			10 05	91	24	
		43			10 05	91	24	
		44			10 05	91	24	
		45			10 05	91	24	

Profile Notes Red. JSH Plotted JCN Job No. 0025.26 Division No. 10 F. B. 2286 PG. 73
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Wilks Date 6-27-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

F. B. 2286 Pg. 74 Job No. 0075-24 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbors Date 6-27-57 Date No.

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

Indexed A. C. Johnson Date Date Date No.

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

Notes Ck'd by		Survey of Small Craft Harbor	F.B. 2286 PG. 75
Map No.		W.O. 9075.29 Tape No.	St'd. °F
Office Work		Surveyed by M. A. Von Oeren	
Checked		Notes Van Date 6-28-57	
Date		Indexed C. Johnson 7-8-57	

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Saving time

Add 20 Minutes for Correct Daylint Saving time

6-28-57

Gauge time			Predicted Tide
A.M. 7:00	+1.1	.9	7 20	0.4
" 7:30	+1.9	1.7	7 50	1.4
" 8:00	+2.5⁻	2.3	8 20	1.9
" 8:30	+3.0	2.8	8 50	2.6
" 9:00	+3.5⁻	3.3	9 20	3.0
" 9:30	+4.0	3.9	9 50	3.6
" 10:00	+4.3	4.1	10 20	3.9
" 10:30	+4.5⁻	4.3	10 50	4.1
" 11:00	+4.5⁻	4.3	11 20	4.1
" 11:30	+4.3	4.1	11 50	4.0
" 12:00	+4.2	4.0	12 20	3.8
P.M. 12:30	+~~5.8~~ 3.8	3.6	12 50	3.6

Subtract 0.2 from above readings to match tide staff.

76F3095 SAE #247. 8-54

Notes Ck'd by JCN	Survey of Small Craft Harbor
Map No.	JN0075.42 Tape Std °F
Office Work JCN	Surveyed by
Checked KRK	Notes Date
Date 10-57	Indexed

F. B. 2286 PG. 76

June 28, 1957

Predicted from U.S.C. & G.S. Tide Book

Observed from Tide gauge

13:00
12:00
11:00
10:00
9:00
8:00
7:00

5.0
4.0
3.0
2.0
1.0

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 S&E #247 1-56

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. KRK Plotted KRK Job No. 075.24 Division No. 10 F.B. 2286 Pg. 77
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. VSH Checked VSH Survey by ENGLISH Notes ED Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Index Date

STATION	B. S.	H. I.	F. S.	ELEV.	Sight at 32+50	Sight on 35+00
						Inshore 35+00
35+22.57	4 21	18 33 ✓		14 12 ✓	D-3, el = 14.125,	F.B. 2243 - 43
35+00			2 1	16 1		
55' R			3 1	15 2	T.S.	
28' L.			2 2	16 1	Brk.	
TP	2 16	6 15 ✓	1434	3 99		
			3 8	2 4	21° 51' 101' ✓	
		6 2	6 8	-0 5	27 49 140' ✓	
			8 8	-2 6	33 54 172' ✓	
			10 6	-4 4	38 12 201' ✓	
			12 4	-6 2	42 08 232' ✓	
			11 9	-5 7	45 50 264' ✓	
			14 0	-7 8	48 45 293' ✓	
			12 7	-6 5	52 02 331' ✓	
			14 0	-7 8	55 04 371' ✓	

76L298 307 4-58

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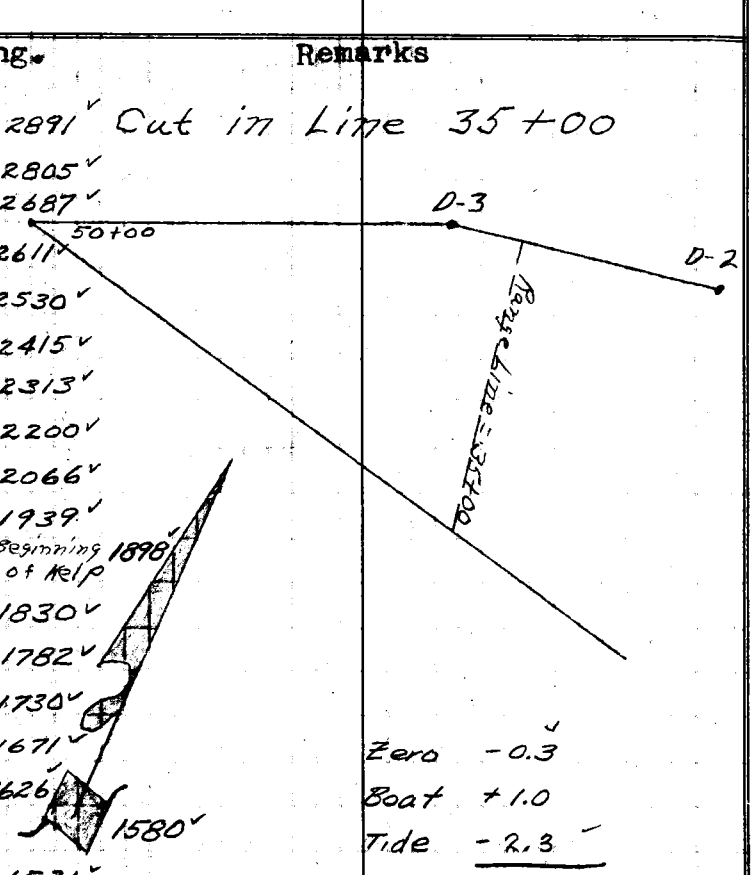
Profile Notes Red KRK Plotted KRK Job No 0075.24 Division No. 10 F. B. 2286 Pg. 79
No. Date 12-57 Date 12-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JSH Checked JSH Survey by Van Dorn Notes R.T. Date 6-28-57
No. Date 12-57 Date 12-57 Map No. Date

Inst. Sight At	On	#	B. S.	H. I. Color	F. S.	Time	ELEV.	Hor. Ang.	Remarks
		1	48.8	47.2	8.15		72° 34'	2891	Cut in Line 35+00
		2	47.3	45.7			71° 41'	2805	
		3	46.0	44.4			70° 29'	2687	
		4	44.9	43.3			69° 36'	2611	
		5	43.7	42.1			68° 40'	2530	
		6	42.0	40.4			67° 17'	2415	
		7	40.2	38.6			65° 57'	2313	
50+00	D-3	8	38.4	36.8			64° 18'	2200	
		9	37.4	35.8			62° 18'	2066	
		10	36.5	34.9			60° 07'	1939	
		11	35.8	34.2			59° 26'	Beginning of Kelp 1898	
		12	35.3	33.7			58° 11'	1830	
		13	34.1	32.5			57° 16'	1782	
		14	33.8	32.2			56° 11'	1730	
		15	33.2	31.6			55° 05'	1671	
		16	32.7	31.1			54° 02'	1626	
		17	32.0	30.4			53° 02'	1580	
		18	31.0	29.4			51° 54'	1531	
		19	30.1	28.5			50° 20'	1464	
		20	29.1	27.5			48° 47'	1401	



Zero	-0.3
Boat	+1.0
Tide	-2.3
	-1.6

76L298 307 4-50

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Do not extend notes this side of this line.

F. B. 2286 PG. 80 Job No. 0025.24 Division No. 10 Notes Red. KRK Plotted KRK Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. Pt	Sight on	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	28.8	27.2		47° 32	1351	Cut in Line 35+00
		22	28.7	27.1		47° 02	1331 (?)	
		23	28.6	27.0		47° 17'	1341 (?)	
		24	28.3	26.7		44° 06	1225	
		25	27.7	26.1		42° 40'	1175	
		26	26.7	25.1		41° 02'	1120	
		27	25.8	24.2		39° 27'	1068	
		28	25.5	23.9		38° 08'	1024	
50+00	0-3	29	25.0	23.4		36° 26'	971	Zero -0.3
		30	23.9	22.3		35° 22'	940	Boat +1.0
		31	22.9	21.3		34° 40'	919	Tide -2.3
		32	21.7	20.1		33° 22'	880	-1.6
		33	20.8	19.2		31° 52'	834	
		34	19.9	18.3		30° 52'	808	
		35	18.8	17.2		29° 37'	770	
		36	18.2	16.6		28° 11'	730	
		37	17.7	16.1		26° 33'	685	
		38	16.3	14.7		25° 10'	650	
		39	15.1	13.5		23° 30'	605	
		40	13.7	12.1		21° 40'	559	

76298 S & E #307—7-55

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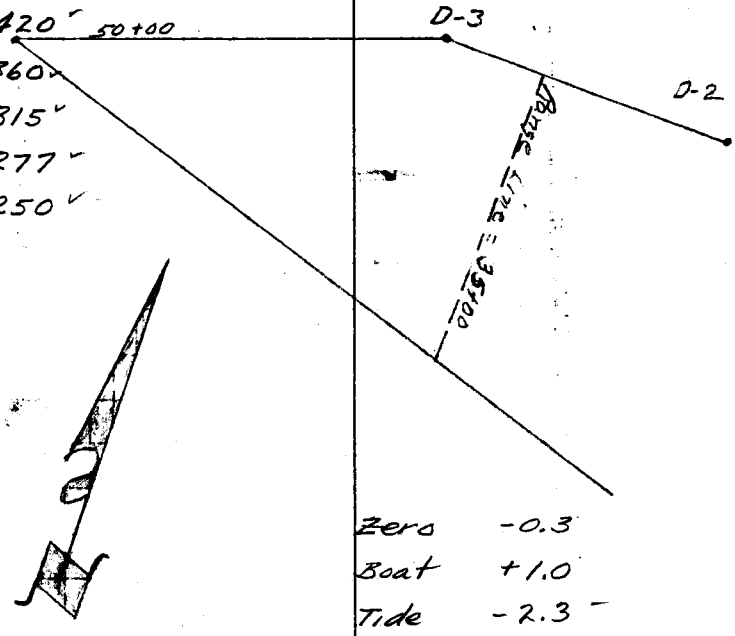
STATION Inst. At	Sight On	B. S.	H. I. #	Depth Rec.	Depth Adj.	F. S.	ELEV.	Hor. Ang.	Remarks
			41	12.4'	10.8	—		19° 51'	510' Cut in Line 35+00
			42	10.1'	8.5	—		18° 25'	471'
			43	9.6'	8.0	—		16° 25'	420' 50+00
			44	9.2'	7.6	—		14° 05'	360'
			45	7.9'	6.3	—		12° 24'	315'
			46	7.9'	6.3	—		10° 51'	277'
50+00	S-3		47	7.3'	5.7	8:25		09° 46'	250'



Zero	-0.3
Boat	+1.0
Tide	-2.3
	-1.6'

Profile Notes Red KRK Plotted KRK Job No. 2624 Division No. 12 F. B. 2286 Pg. 81
No. Date 12-5-57 Date 12-5-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Vanderen Notes RT Date 6-28-57
No. Date 12-5-57 Date 12-5-57 Map No. Notes Date

F. B. 2286 Pg. 82 | Job No. 027529 Division No. 10 | Notes Red. | Plotted | Profile

Survey of Small Craft Harbor | Date 6-28-57 | Date | No.

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

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

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

76298 S & E #307—7-55

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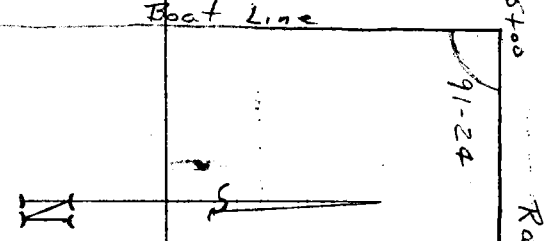
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
35+00	D-2A	1			8 15	91 24	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	beginning of Kelp
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. JSH Plotted VCK Job No. 00252 Division No. 10 F. B. 2286 Pg. 83
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCK Checked JSH Survey by Van Deren Notes W.L.R.S. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Date

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
35+00	D-2A	21			91 24		
		22			"	Range	
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 84 Job No. 0025.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed A. C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
35+00	D-2A	41				91 24	
		42				"	Range
		43				"	
		44				"	
		45				"	
		46				"	
		47			8 25	"	

Profile Notes Red. JSH Plotted VCN Job No. 0025-24 Division No. 10 F. B. 2286 Pg. 85
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Kirks Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Index Johnson Date

F. B. 2296 Pg. 86 | Job No. 2025.2 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Small Craft Harbor | Date 6-28-57 | Date | No.

Survey by Van Deren | Notes W.H.S. | Notes Chkd. | Checked | X-Sec.

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

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

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76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Int. at 42+50	Sight on 40+00
T.P.	4 88	8 87		3 99		Issbore
40+00		+	3 0	11 9		40+00
20' R		+	6 3	15 2	Brk.	
87' R		+	7 1	16 0	T.S.	
		8 9	4 2	5 7	8° 16'	36'
			9 0	-0 1	18 30	84'
			11 7	-2 8	26 53	127'
			13 8	-4 9	34 07	169'
			13 6	-4 7	39 12	204'
			16 7	-7 8	46 10	261'
T.P.			3 88	4 99		

Profile
Notes Red. VCN Plotted VSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 87
No. Date 10-57 Date 10-57 Survey of SAALL CRAFT HARDY
X-Sec. Notes Chkd VSH Checked VCN Survey by ENGLISH Notes FD Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Inspected by Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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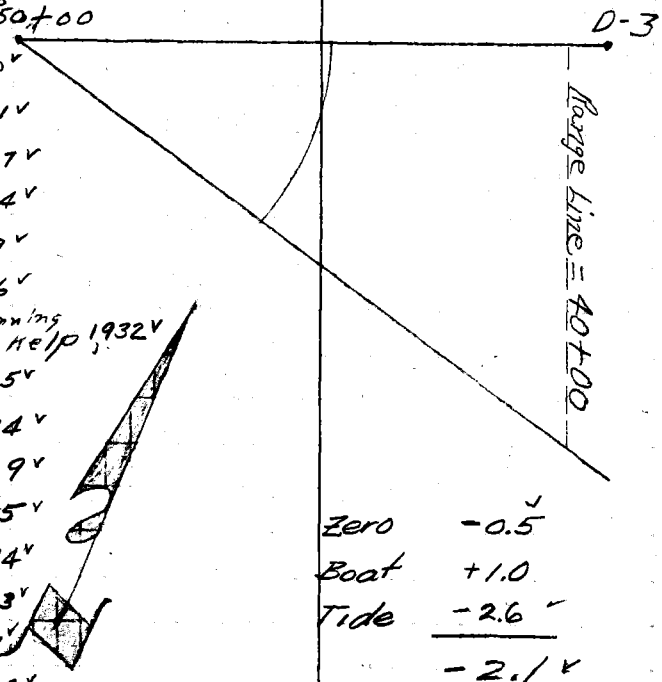
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	49.2 47.1	8:33	70° 26'	2,814
	2	47.8 45.7		69° 55'	2,735
	3	45.9 43.8		68° 48'	2,578
	4	44.5 42.4		68° 12'	2,500
	5	42.6 40.5		67° 08'	2,371
	6	40.8 38.7		66° 12'	2,267
	7	39.6 37.5		65° 18'	2,174
	8	38.7 36.6		64° 38	2,109
	9	38.3 36.2		63° 23	1,996
	10	37.7 35.6		62° 38'	beginning of Kelp 1,932
	11	37.0 34.9		61° 48	1,865
	12	35.7 33.6		60° 44'	1,784
	13	34.6 32.5		59° 40	1,709
	14	33.8 31.7		58° 33'	1,635
	15	33.2 31.1		57° 44'	1,584
	16	32.7 30.6		56° 43'	1,523
	17	31.8 29.7		55° 32'	1,457
	18	30.9 28.8		54° 21'	1,394
	19	29.6 27.5		52° 58'	1,325
	20	28.9 26.8		51° 30'	1,257

50+00 D-3

Cut in Line 40+00



Zero	-0.5
Boat	+1.0
Tide	-2.6
	-2.1

Profile Notes Red JCN Plotted JSH Job No. 0075114 Division No. 10 F. B. 2286 Pg. 89
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. [redacted] Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst at	Sight on	#	Depth	Time	Hor. Ang.	Remarks	
		21	28.6 26.4		50° 01'	1,192	Cut in Line 40+00
		22	27.5 25.3		48° 12'	1,118	
		23	26.5 24.3		46° 36'	1,057	
		24	25.8 23.6		44° 45'	991	
		25	25.5 23.3		42° 34'	918	
		26	24.7 22.5		41° 07'	873	
		27	23.0 20.8		39° 16'	818	
		28	21.7 19.5		37° 40'	772	
50+00	0-3	29	20.5 18.3		35° 58'	726	Zero -0.5
		30	18.5 16.3		33° 58'	674	Boat +1.0
		31	18.2 16.0		32° 22'	634	Tide -2.7
		32	17.9 15.7		30° 25'	587	-2.2
		33	17.5 15.3		28° 28'	542	
		34	17.2 15.0		26° 58'	509	
		35	16.0 13.8		24° 05'	447	
		36	14.7 12.5		21° 38'	397	
		37	12.9 10.7		19° 52'	361	
		38	11.2 9.0		18° 17'	330	
		39	9.9 7.7		16° 34'	297	
		40	9.5 7.3		14° 57'	267	

F. B. 2286 Pg. 90
Job No. 0025.26 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed L. O. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 007624	Division No. 10	F. B. 2286 Pg. 91
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes R.T.	Date 6-28-57
	Date 10-57	Date 10-57	Map No. [redacted]	Indexed Johnson	Date

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

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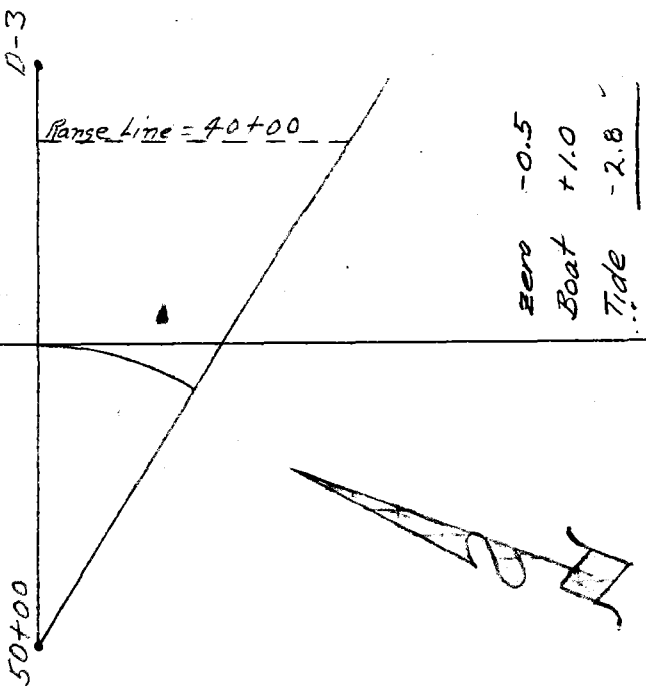
700 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. B.	H. I.	F. B.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
	41	7.9	5.6	13° 13	235
	42	7.4	5.1	11° 06	196



Cut in Line 40+00

Zero -0.5
Boat +1.0
Tide -2.8
-2.3

D-3

50+00

76298 S & E #307—7-55

F. B. 2286 Pg. 92

Job No. 0075.29 Division No. 10 Notes Red. Plotted

Survey of Small Craft Harbor Date 6-28-57 Date No.

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

Indexed A. C. Johnson Date Date Date No.

Profile

X-Sec.

76298 S & E #307—7-55

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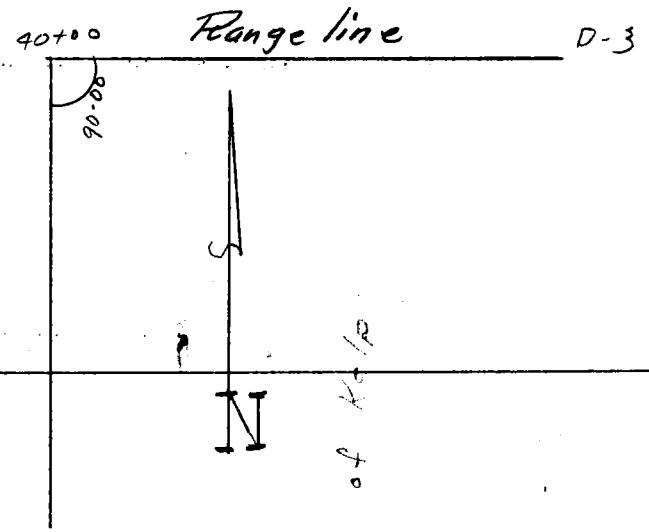
Do not extend notes this side of this line.

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

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 007524	Division No. 10	F. B. 2286 Pg. 93
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 6-28-57
	Date 10-57	Date 10-57	Map No. [illegible]	Index Johnson	Date



beginning of Kelp

STATION Inst. Sight At	On	B. B. #	H. I. Depth Rec. Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
40+00	D-3	1		8.33	90 00	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	

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

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

Do not extend notes this side of this line.

76298 S & E #307—7-55

76298 S & E #307—7-55

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
40+00	D-3	21			90 00		
		22			"	Range	
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 94 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
40+00	D-3	41				90 00	
		42			8 45	90 00	

Profile Notes Red. JSH Plotted JCN Job No. 0025.24 Division No. 10 F. B. 2286 Pg. 95
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Wilks Date 6-28-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

F. B. 2286 Pg. 96 | Job No. 2075-24 | Division No. 10 | Notes Red | Plotted | Profile

Survey of Small Craft Harbor | Date 6-28-57 | Date | No.

Survey by Van Dercy | Notes Wilks | Notes Chkd. | Checked | X-Sec.

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

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

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76298 S & E #307—7-55

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 42+50	Sight on 45+00
T.P.	3 05	8 04		4 99		Inshore
45+00						45+00
10 'R		+	4 9	12 9	Brk.	
24 'R		+	6 6	14 6	"	
67 'R		+	7 2	15 2	T.S.	
		8 0	4 0	4 0	7° 51' 35'V	
			8 0	0 0	16 59 76'V	
			10 2	-2 2	23 06 107'V	
			13 4	-5 4	29 09 140'V	
			15 2	-7 2	35 25 178'V	
			15 7	-7 7	39 32 206'V	
			13 6	-5 6	43 09 234'V	
			15 0	-7 0	45 48 257'V	
T.P.			2 55	5 49		

Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 3726 Pg. 97
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked JSH Survey by ENGLISH Notes ED Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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Profile Notes Red. VCN Plotted VCN Job No. 49254 Division No. 10 F. B. 2286 Pg. 99
No. Date 12-57 Date 12-57 Survey of Final Craft Harbor
X-Sec. Notes Chkd. VSH Checked VSH Survey by Van Deren Notes R.T. Date 6-28-57
No. Date 12-57 Date 12-57 Map No. Traced C. Johnson Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		1	49.5'	47.0	8:55	80° 12'	2895'	Cut in Line 45+00
		2	47.7'	45.2		79° 33'	2711'	
		3	46.5'	44.0		79° 02'	2580'	50+00 D-3
		4	44.9'	42.4		78° 32'	2465'	
		5	43.3'	40.8		78° 13'	2397'	
		6	41.6'	39.1		77° 40'	2287'	
50+00	D-3	7	40.1'	37.6		76° 57'	2157'	
		8	38.7'	36.2		76° 16'	2046'	
		9	37.8'	35.3		75° 46'	1971'	
		10	37.0'	34.5		75° 22'	1915'	
		11	36.0'	33.5		74° 31'	1805'	
		12	35.7'	33.2		74° 22'	1787'	
		13	35.3'	32.8		73° 37'	1701'	
		14	34.6'	32.1		72° 48'	1615'	
		15	33.3'	30.8		72° 13'	1559'	
		16	32.3'	29.8		71° 33'	1499'	
		17	31.8'	29.3		70° 41'	1426'	
		18	31.0'	28.5		70° 02'	1376'	
		19	30.2'	27.7		69° 13'	Beginning of Kelp 1317'	
		20	29.5'	27.0		68° 13'	1251'	

Range Line = 45+00

Zero -0.5'
Boat +1.0
Tide -3.0
-2.5'

76298 S & E #307—7-55

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F. B. 2286 Pg. 100 Job No. 22514 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes Ralph Turrill Notes Chkd. JSH Checked JSH
Indexed C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
		21	28.3	25.8		66° 37'	1156'	Cut in Line 45+00
		22	27.4	24.9		65° 25'	1093'	
		23	27.2	24.7		64° 30'	1048'	
		24	26.2	23.7		63° 32'	1004'	
		25	25.3	22.8		62° 20'	954'	
		26	24.5	22.0		61° 10'	908'	
		27	24.1	21.6		60° 04'	868'	
50+00		28	23.0	20.5		59° 06'	835'	
	D-3	29	22.0	19.5		57° 55'	798'	Zero -0.5'
		30	20.5	18.0		56° 37'	759'	Boat +1.0
		31	20.0	17.5		55° 36'	730'	Tide -3.0'
		32	19.6	17.1		54° 02'	689'	-2.5'
		33	18.2	15.7		52° 27'	650'	
		34	17.8	15.3		51° 02'	618'	
		35	17.5	15.0		49° 37'	587'	
		36	16.7	14.2		47° 28'	545'	
		37	15.6	13.1		45° 28'	508'	
		38	15.0	12.5		43° 21'	472'	
		39	14.1	11.6		40° 50'	432'	
		40	12.6	10.1		37° 59'	390'	

76298 S & E #307—7-55

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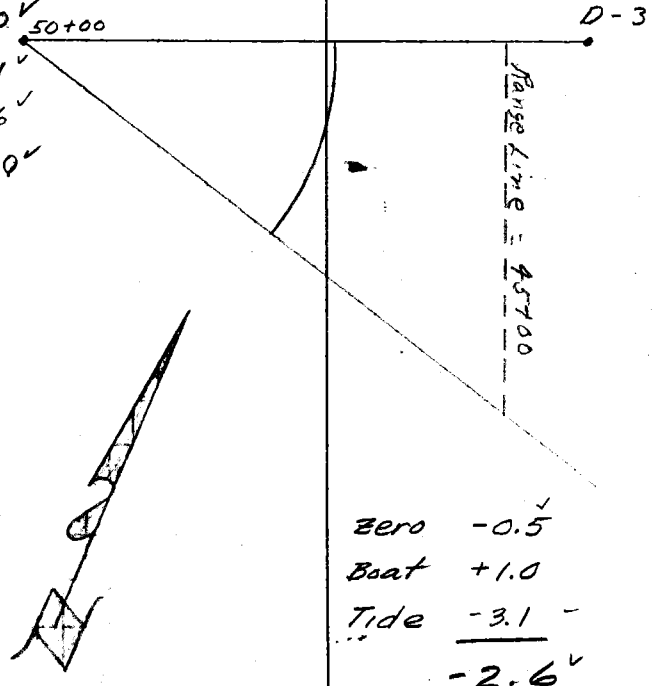
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		41	11.5'	8.9		34° 25'	343	Cut in Line 45+00
		42	10.9'	8.3		31° 48'	310	
		43	10.3'	7.7		30° 06	290	
		44	9.5'	6.9		26 40'	251	
		45	8.6'	6.0		23 19	216	
		46	8.9'	6.3	9:03	20 47	190	
50+00	D-3							



Zero -0.5
Boat +1.0
Tide -3.1
-2.6

Profile No. ____ Date 10-57 Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 101
X-Sec. No. ____ Date 10-57 Notes Chkd. JSH Checked JSH Survey of Small Craft Harbor Survey by VanDeren Notes R.T. Date 6-28-57
Map No. ____ Date 10-57 Date 10-57 Map No. ____ Date ____

F. B. 2286 Pg. 102 Job No. 2035.27 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 6-28-57 Date No.

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

Indexed A. C. Johnson Date Date Date No.

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

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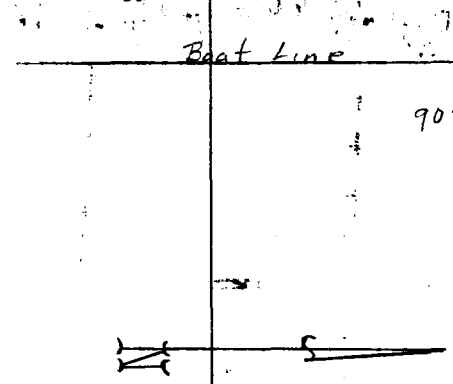
Profile Notes Red. USH Plotted USH Job No. 23524 Division No. F. B. 2286 Pg. 103
No. Date 10-57 Date 10-57 Survey at Small Craft Harbor
X-Sec. Notes Chkd. JCW Checked JCW Survey by Van Deren Notes W.I.K.S. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Date

STATION Inst. At	Sight On	B. B. #	H. I. Depth Rec.	Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
45+00	D-3	1			8 55	90 00	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	beginning of Kelp
		20				"	



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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.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
45+00	0-3	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 104 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed R. C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
45+00	D-3	41				90 00	
		42				"	
		43				"	
		44				"	
		45				"	
		46			9 03	"	

Profile No. ____ Notes Red. USH Plotted USH Job No. 00 3524 Division No. 10 F. B. 2286 Pg. 105
Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. No. ____ Notes Chkd. JCN Checked JCN Survey by Van Deren Notes Wilks Date 6-28-57
Date 10-57 Date 10-57 Map No. ____ Indexed Johnson Date ____

F. B. 2286 Pg. 106 Job No. 007.28 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 6-28-57 Date No.

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

Indexed A. C. Johnson Date Date Date No.

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

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76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at D-4	Station 49+75 ~~50+00~~
T.P.	2 45	7 94		5 49		Insbore
50+00		+	7 2	15 1		~~50+00~~
45 'R		+	7 2	15 1	Boardwalk	49+75
26 'L		+	7 2	15 1	Brick	
		7 9	4 1	3 8	15° 28'	82'
			7 2	0 7	20 47	113'
			12 3	-4 4	31 32	182'
			14 2	-6 3	39 16	242'
			15 0	-7 1	44 00	286'
T.P.	9 26	14 82	2 38	5 56		
52+71.27	0 56	1 4 82	0 56	1 4 26	D-4, el. = 14.257,	F.B. 2243-43
T.P.			9 29	5 53		

Profile

Notes Red. VCN Plotted VSH Job No. 0075.24 Division No. 10 F. B. 2243 Pg. 167

No. Date 10-57 Date 10-57 Survey of SMALL CANYON - HARBORS

X-Sec. Notes Chkd VSH Checked VCN Survey by ENGLISH Notes F.B. Date 6-28-57

No. Date 10-57 Date 10-57 Map No. ~~Indexed~~ Indexed Johnson Date

76298 S & E #307—7-55

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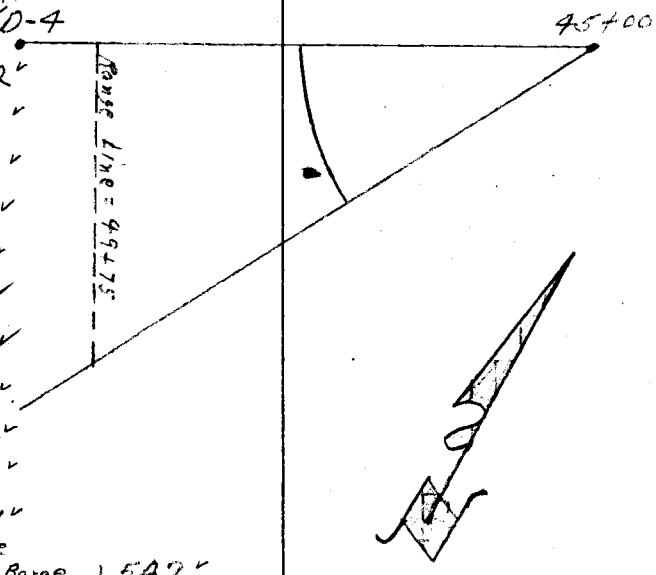
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
45+00	D-4	1	50.0	46.8	9:35	80° 38'	2,879 Cut in Line 49+75
		2	48.4	45.2		80° 12'	2,750
		3	46.4	43.2		79° 46'	2,631 D-4
		4	44.7	41.5		79° 10'	2,482
		5	43.1	39.9		78° 41'	2,374
		6	41.5	38.3		78° 18'	2,294
		7	40.1	36.9		77° 39'	2,169
		8	39.1	35.9		77° 08'	2,080
		9	37.4	34.2		76° 28'	1,973
		10	36.6	33.4		75° 53'	1,889
		11	35.7	32.5		75° 14'	1,802
		12	34.4	31.2		74° 35'	1,722
		13	33.8	30.6		73° 56'	1,649
		14	32.6	29.4		73° 20'	1,587
		15	32.0	28.8		72° 53'	outside of Bait Barge 1,542
		16	31.2	28.0		72° 03'	1,466
		17	30.6	27.4		71° 33'	1,424
		18	29.3	26.1		70° 38'	1,351
		19	28.4	25.2		69° 33'	1,274
		20	28.0	24.8		68° 31'	1,207



Zero	-0.6
Boat	+1.0
Tide	-3.6
	-3.2

Profile Notes Red. VCN Plotted JSH Job No. 0075-24 Division No. 10 F. B. 2286 Pg. 109
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked VCN Survey by Van Deren Notes R.T. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	27.2	24.0		67° 18'	1,136	Cut in Line 49+75
		22	25.7	22.5		65° 14'	1,030	
		23	24.9	21.7		64° 38'	1,002	
		24	24.2	21.0		63° 17'	944	
		25	23.5	20.3		62° 02'	894	
		26	22.8	19.6		60° 47'	849	
		27	22.1	18.9		59° 31'	807	
		28	21.5	18.3		58° 08'	764	
45+00	D-9	29	20.6	17.4		56° 34'	in of Pier 720	Zero -0.6
		30	19.7	16.5		54° 09'	657	Boat +1.0
		31	18.8	15.6		52° 33'	620	Tide -3.7
		32	17.6	14.4		49° 52'	563	-3.2
		33	16.4	13.2		47° 45'	523	
		34	15.4	12.2		45° 12'	478	
		35	14.6	11.4		42° 36'	437	
		36	9.8	6.6		36° 31'	352	Rocks between shots 36 & 38 -
		37	9.9	6.7		33° 54'	319	highest rock at 5.6'
		38	10.3	7.1		30° 23'	278	
		39	10.0	6.8		25° 50'	230	
		40	9.3	6.1	9:45	23° 20'	205	

F. B. 2286 Pg. 110 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed E. C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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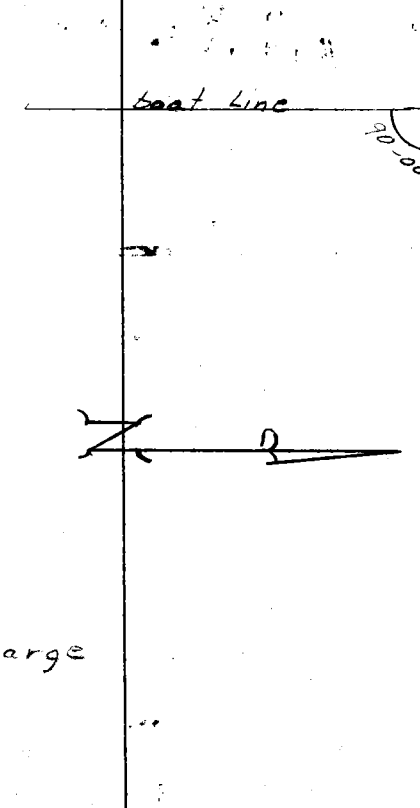
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
49+75	D-3	1			9 35	90 00	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	bait barge
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. VCN Plotted VSH Job No. 22526 Division No. 10 F. B. 2286 Pg. 111
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VSH Checked VCN Survey by [redacted] Notes Wilks Date 6-20-57
No. Date 10-57 Date 10-57 Map No. [redacted] Date

76298 S & E #307—7-55

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

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F. B. 2286 Pg. 112 Job No 025234 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 No. X-Sec.
Survey by Van Dorn Notes Wilks Notes Chkd. JSH Checked JCN
Indexed C. Johnson Date 6-28-57 Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
44+75 / D-3	21			90 00		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"	End of pier	
	30			"		
	31			"		
	32			"		
	33					
	34			"		
	35			"		
	36			"		
	37			"		
	38			"		
	39			"		
	40		9 45	"		

76L298 S & E #307 9-54

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 57+50	Sight on 55+00
T.P.	2 99	8 52		5 53		Ingsbore
55+00						55+00
56'R		+	6 0	14 5	Boardwalk	
39'L		+	5 4	13 8	Brk.	
			3 7	4 8	19° 40' 89'V	
		8 5	8 1	0 4	27 00 128'V	
			10 9	-2 4	34 32 172'V	
			13 0	-4 5	43 03 234'V	
			15 1	-6 6	50 17 302'	
			17 7	-9 2	55 32 364'V	
T.P.			2 57	5 95		

Profile Notes Rod. JSH Plotted VCN Job No. 007529 Division No. 10 F. B. 22186 Pg. 113
No. Date 10-5-57 Date 10-5-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. VCN Checked JSH Survey by ENGLISH Notes F.B. Date 6-28-57
No. Date 10-5-57 Date 10-5-57 Map No. Traced Johnson Date

76298 S & E #307—7-55

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

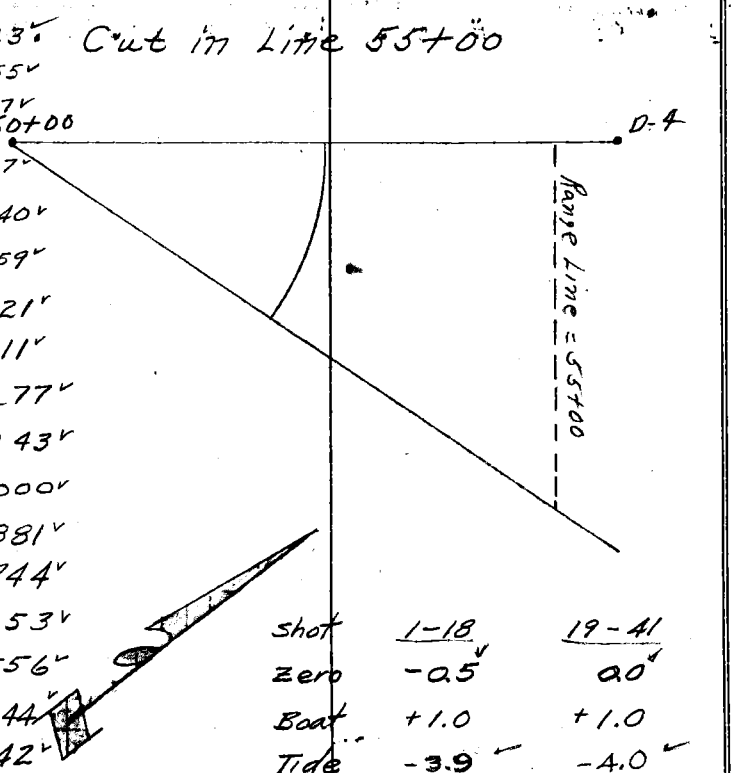
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. V.S.H. Plotted V.C.N. Job No. 207,22 Division No. 20 F. B. 2286 Pg. 115
No. Date 10-5-57 Date 10-5-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. V.C.N. Checked V.S.H. Survey by Van Deren Notes K.T. Date 6-28-57
No. Date 10-5-57 Date 10-5-57 Map No. Redrawn Johnson Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	
60+00	D-4	1	52.5	49.1	9:59	81° 40'	3,413 Cut in Line 55+00
		2	51.4	48.0		81° 16'	3,255
		3	49.7	46.3		80° 55'	3,127 60+00
		4	48.1	44.7		80° 28'	2,977
		5	46.2	42.8		80° 01'	2,840
		6	44.4	41.0		79° 21'	2,659
		7	42.2	38.8		78° 47'	2,521
		8	40.9	37.5		78° 17'	2,411
		9	39.7	36.3		77° 37'	2,277
		10	38.5	35.1		76° 52'	2,143
		11	37.3	33.9		75° 58'	2,000
		12	35.6	32.4		75° 07'	1,881
		13	34.6	31.2		74° 00'	1,744
		14	33.3	29.9		73° 10'	1,653
		15	32.1	28.7		72° 11'	1,556
		16	30.7	27.3		70° 54'	1,444
		17	29.4	26.0		69° 34'	1,342
		18	27.9	24.5	10:03	68° 13'	1,251
		19	29.2	26.2	10:07	69° 38'	1,347 (?)
		20	28.2	25.2		68° 10'	1,248

Remarks



Shot	1-18	19-41
Zero	-0.5	0.0
Boat	+1.0	+1.0
Tide	-3.9	-4.0
	-3.4	-3.0

76298 S & E #307—7-55

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

Do not extend notes this side of this line.

F. B. 2286 Pg. 116 Job No. 60235-1 Division No. 10 Notes Red. VSH Plotted VCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes RT Notes Chkd. VCN Checked VSH
Indexed E. C. Johnson Date 6-28-57 Date 10-52 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks
607+00	0-4	21	27.3	24.3		66° 54'	1,172	Cut in Line 557+00
		22	26.3	23.3		65° 46'	1,111	
		23	25.2	22.2		64° 26'	1045	
		24	24.5	21.5		64° 54'	1,067	
		25	23.7	20.7		62° 46'	972	
		26	22.7	19.7		60° 14'	874	
		27	21.5	18.5		58° 45'	824	
		28	20.3	17.3		57° 28'	1/1 of Pier 784	
		29	19.8	16.8		55° 11'	719	
		30	19.1	16.1		53° 17'	670	Shot 19-41
		31	18.0	15.0		51° 25'	627	Zero 0.0
		32	16.7	13.7		49° 33'	586	Boat +1.0
		33	15.8	12.8		46° 51'	533	Tide -4.0
		34	15.3	12.3		44° 59'	500	-3.0
		35	13.7	10.7		41° 12'	438	
		36	12.6	9.6		37° 40'	386	
		37	11.9	8.9		34° 29'	343	
		38	11.2	8.2		31° 28'	306	
		39	9.9	6.9		29° 50'	287	
		40	8.2	5.2		25° 58'	244	
		41	7.1	4.1	10:12	23° 11'	214	

76298 S & E #307—7-55

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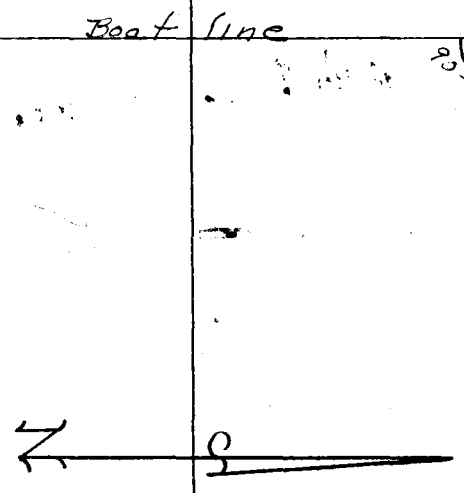
Do not extend notes this side of this line.

Profile Notes Red JSH Plotted JCN Job No 0234 Division No. 10 F. B. 2326 Pg. 117
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JCN Checked JSH Survey by Van Doren Notes Wilks Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Modified Johnson Date

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
55+00	D-4	1			9 59	90 00	Boat line
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18			10 03	"	
		19			10 07	"	
		20				"	



76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2286 Pg. 118 Job No. 2525.24 Division No. 10 Notes Red. VSH Plotted VCN Profile
Survey of Small Craft Harbor Date 6-28-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes Walks Notes Chkd. VCN Checked VSH
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Rec. / Adj.	Time	Hor. Ang.	Remarks	
53+00 D-4	21			90°00		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"	End of pier	
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37			"		
	38			"		
	39			"		
	40			"		
	41		10.12	"		

76L298 S & E #307 9-54

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Instr at 57+50	Sight on 60+00
T.P.	9 14	10 09		5 95		Inshore
60+00			2 6	7 5		60+00
26' R		+	1 0	11 1	B+K.	
84' R		+	5 0	15 1	T.S.	
		10 1	7 6	2 5	9° 24' 42"	
			10 9	-0 8	22 13 102'	
			13 7	-3 6	36 40 186'	
			17 4	-7 3	43 58 241'	
T.P.	5 80	15 70	0 19	9 90		
61+26 71			0 68	15 02	D-5, el = 15.017', F.B. 2243 -43 X	

Profile
Notes Red. JCN Plotted JSH Job No. 0075.54 Division No. 10 F. B. 2286 Pg. 1/19
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec.
Notes Chkd. JSH Checked JCN Survey by ENGLISH Notes E.D. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Added Jobs Date

76298 S & E #307—7-55

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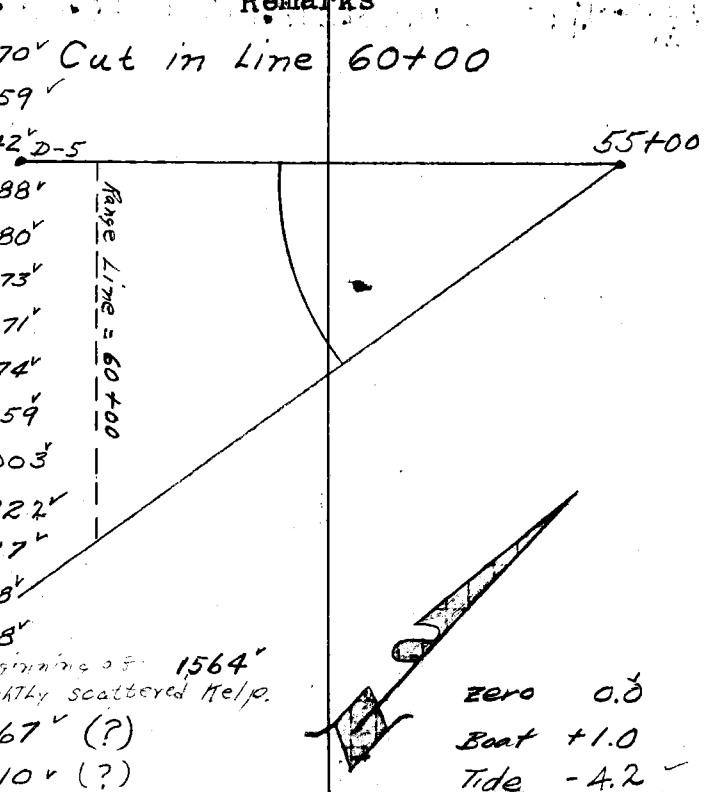
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

Profile Notes Red. VSH Plotted VSH Job No. 26224 Division No. 10 F. B. 2286 Pg. 121
No. Date 12-5-57 Date 12-5-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VCN Survey by Van Deren Notes RT Date 6-28-57
No. Date 12-5-57 Date 12-5-57 Map No. Initial Check Date

STATION Inst. At	Sight On	#	H. I. Depth Rec.	H. I. Adj.	B. S.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	50.5	47.3		10:31	79° 46'	2,770 Cut in Line 60+00
		2	49.7	46.5			79° 21'	2,659
		3	48.4	45.2			79° 17'	2,642 D-5
		4	47.0	43.8			79° 04'	2,588
		5	46.1	42.9			78° 36'	2,480
		6	44.6	41.4			78° 06'	2,373
		7	43.2	40.0			77° 35'	2,271
		8	41.8	38.6			77° 03'	2,174
		9	40.8	37.6			76° 21'	2,059
		10	39.1	35.9			75° 59'	2,003
		11	38.4	35.2			75° 26'	1,922
		12	37.2	34.0			74° 37'	1,817
		13	36.2	33.0			74° 02'	1748
		14	35.2	32.0			73° 13'	1658
		15	34.1	30.9			72° 16'	1564 Beginning of slightly scattered kelp.
		16	35.8	32.6		10:36	73° 18'	1,567 (?)
		17	34.4	31.2			72° 45'	1,610 (?)
		18	33.3	30.1			72° 01'	1,540
		19	32.3	29.1			70° 57'	1,448
		20	31.3	28.1			69° 53'	1,365
55+00	D-5							



76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

F. B. 2286 Pg. 122 Job No. 2224 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 6-28-52 Date 10-57 No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JCN
Indexed A. C. Johnson Date Date 10-57 Date 10-57 No.

STATION	Inst. At	Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S.	ELEV.	Time	Hor. Ang.	Remarks	
			21	30.8'	27.6				68° 55'	1291' Cut in Line	60+00
			22	29.8'	26.6				67° 49'	1,226'	
			23	28.4'	25.2				56° 54'	1,172'	
			24	27.6'	24.4				65° 56'	1,120'	
			25	26.7'	23.5				64° 47'	1,062'	
			26	25.7'	22.5				63° 48'	1,016'	
			27	24.4'	21.2				62° 37'	965'	
			28	23.3'	20.1				61° 20'	Heavy Kelp 915'	
	55+00	0-5	29	22.3'	19.1				60° 22'	879'	
			30	21.2'	18.0				58° 51'	830'	Zero 0.0'
			31	20.1'	16.9				57° 45'	792'	Boat +1.0
			32	18.5'	15.3				56° 00'	741'	Tide -4.2'
			33	17.3'	14.1				55° 00'	714'	-3.2'
			34	16.5'	13.3				53° 21'	676'	
			35	16.2'	13.0				52° 17'	647'	
			36	14.7'	11.5				50° 11'	600'	
			37	12.7'	9.5				47° 09'	539' Rocks	
			38	11.3'	8.1				44° 26'	490'	
			39	10.5'	7.3				41° 38'	442'	
			40	9.9'	6.7				38° 23'	396'	

76298 S & E #307—7-55

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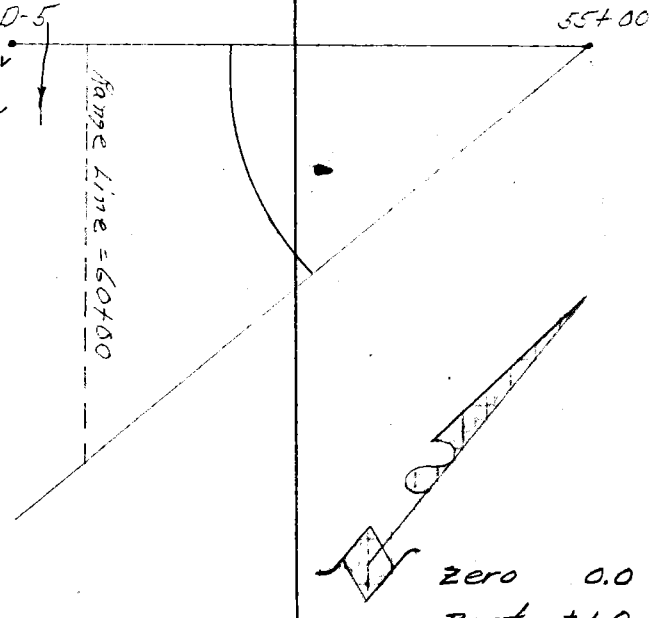
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		41	10.2'	7.0		34° 35'	345 Rocks Cut in Line 60+00
		42	9.7'	6.5		30° 57	300
		43	8.5'	5.3		27° 38'	262 D-5
		44	7.6'	4.4		24° 06'	224
		45	5.8'	2.6	10:46	20° 34'	188
55+00	D-5						



Zero 0.0
Boat +1.0
Tide -4.2
-3.2

Profile Notes Red. JSH Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 123
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes P.T. Date 6-28-57
No. Date 10-57 Date 10-57 Map No. Date

F. B. 2286 Pg. 129 | Job No. 207529 | Division No. 10 | Notes Red. | Plotted | Profile

Survey of Small Craft Harbor | Date 6-28-51 | Date | No.

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

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

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

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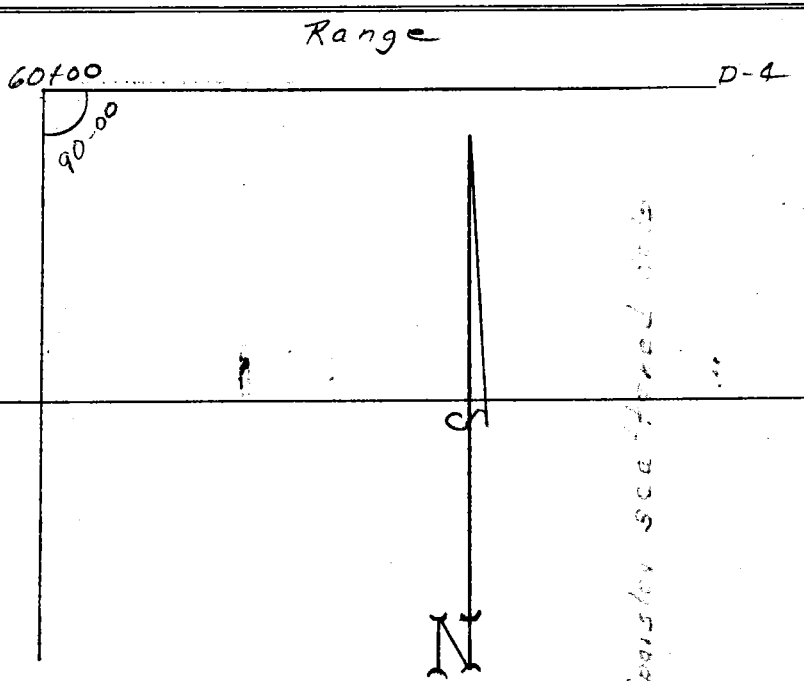
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

7629B S & E #307—7-55

Profile No.	Notes Red. JCN	Plotted JCN	Job No 0075.24	Division No. 10	F. B. 2286 Pg. 125
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Van Deren	Notes Wilks	Date 6-28-57
	Date 10-57	Date 10-57	Map No. ~~X Index~~ Johnson		Date



STATION Inst. Sight At On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
60+00 D-4	1		1031	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16		10:36	"	
	17			"	
	18			"	
	19			"	
	20			"	

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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76298 S & E #307—7-55

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
60+00	D-4	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"	Heavy Kelp	
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 126 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 6-28-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JSH
Indexed A. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
60+00	D-4	41				90 00	
		42				"	
		43				"	
		44				"	
		45			10 46	"	

Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 127
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Dorer Notes Wilks Date 6-28-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

F. B. 2286 Pg. 126 Job No. 025-24 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 6-28-57 Date No.

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

Indexed R. C. Johnson Date Date Date No.

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

Do not extend notes this side of this line.

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

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

76298 S & E #307—7-55

Notes Ck'd by JSH	Survey of Small Craft Harbor	F. B. 2286 Pg. 129	
Map No.	W. O. 0075-29 Tape No. St'd. °F		
Office Work JCN	Surveyed by M.A. VanDeren		
Checked JSH	Notes Van Date 7-1-57		
Date 10-57	Indexed C. Johnson 7-8-57		

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Saving time

Add 20 Minutes for Correct Daylight saving time

7-1-57

Gauge Time				Predicted Tide
7:00	+0.2	-0.4	720	-0.6
7:30	0.0	-0.2	750	-0.4
8:00	+0.3	+0.1	820	0.0
8:30	+0.9	+0.7	850	0.4
9:00	+1.1	0.9	920	0.9
9:30	+2.0	1.8	950	1.6
10:00	+2.6	2.4	1020	2.1
10:30	+3.3	3.1	1050	2.7
11:00	+3.9	3.7	1120	3.2
11:30	+4.4	4.2	1150	3.8
12:00	+4.6	4.4	1220	4.2
12:30				

Subtract 0.2 from above readings to match tide staff.

KVR

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

Do not extend notes this side of this line.

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

76F3095 S&E #247. 8-54

76F3098 S&E #247 1-56

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

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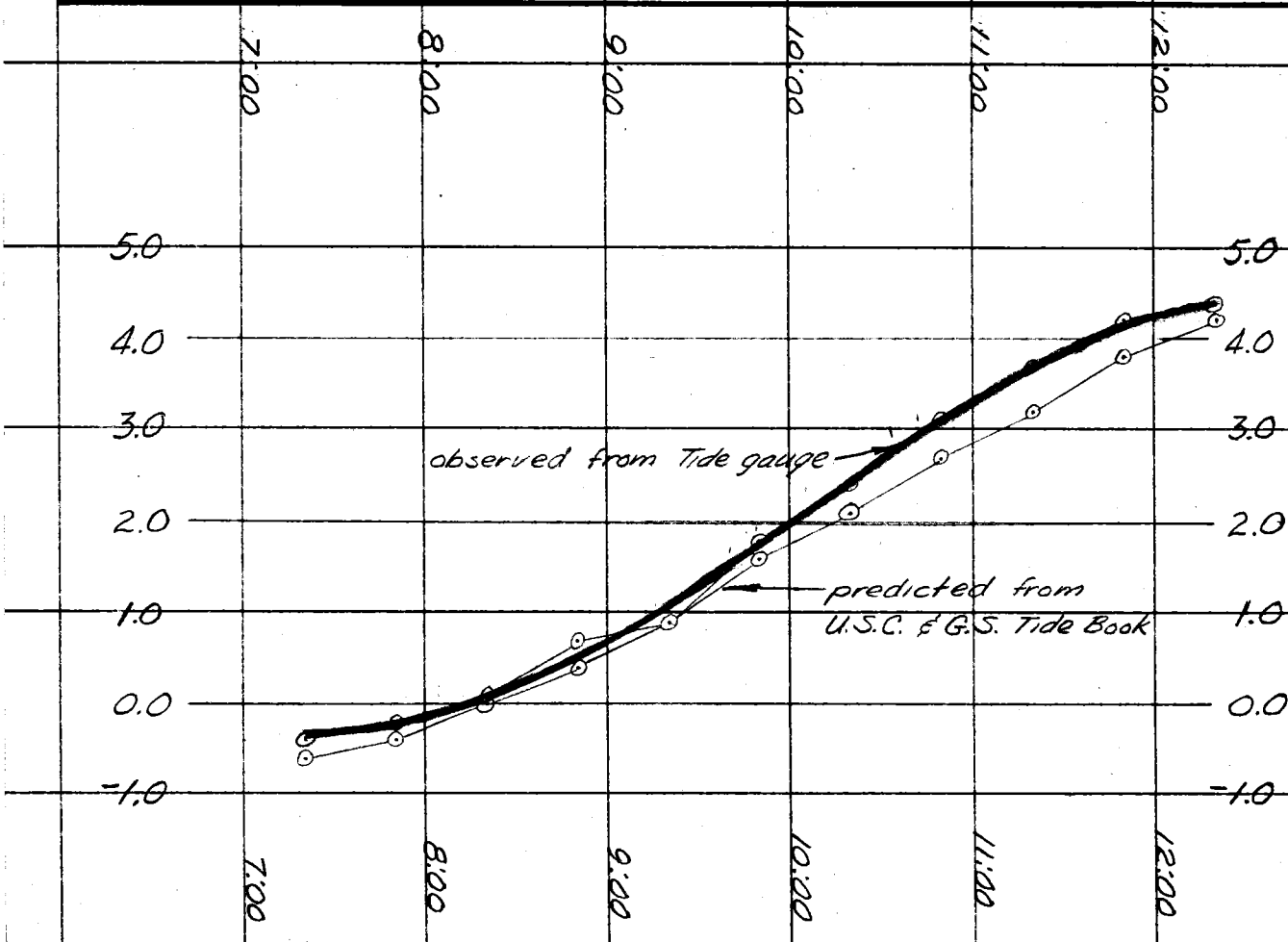

Notes Ck'd by JSH
Map No.
Office Work VCN
Checked JSH
Date 12-57

Survey of Small Craft Harbor
JN 0075.24 Tape Std. °F
Surveyed by
Notes Date
Indexed

F. B. 2286 Pg. 130

July 1, 1957

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	lost at 67+50	Sight on 65+00
61+26.21	3 17	18 19		15 02	D-5, el = 15.017, F.B. - 43 2243-X	Isabore 65+00
T.P.	1 60	5 03	14 76	3 43		
65+00		+	8 0	13 0		
38' R.		+	23 0	28 0	Brk.	
47' R.		+	23 0	28 0	T.S.	
		5 0	0 0	5 0	9° 31' 42"	
			4 6	0 4	21 01 96'	
			6 7	-1 7	35 14 177'	
			7 6	-2 6	41 14 219'	
			11 8	-6 8	46 56 268'	
			11 5	-6 5	51 05 310'	
T.P.			1 89	3 14		

Profile Notes Red. JSH Plotted JCN Job No. 0075.29 Division No. 10 F. B. 2296 Pg. 131
No. Date 10-5-57 Date 10-5-57 Survey of SMALL ORBIT HARBORS
X-Sec. Notes Chkd. JCN Checked KRK Survey by ENGLISH Notes FD Date 7-1-57
No. Date 10-5-57 Date 10-5-57 Map No. Indexed by Johnson Date

76298 S & E #307—7-55

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Profile Notes Red VSH Plotted VCN Job No 20X.28 Division No. VC F. B. 2286 Pg. 133
No. Date 12-57 Date 12-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked KRK Survey by Van Deren Notes RT Date 12-57
No. Date 12-57 Date 12-57 Map No. Inspected by Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		7:24	76° 47'	3,077 ✓ Cut in Line 65+00
		2	52.1 ✓	53.4 ✓		76° 25'	2,991 ✓
		3	50.3 ✓	51.6 ✓		75° 48'	2,856 ✓ D-6
		4	48.6 ✓	49.9 ✓		75° 19'	2,758 ✓
		5	46.8 ✓	48.1 ✓		74° 51'	2,669 ✓
		6	45.4 ✓	46.7 ✓		74° 16'	2,565 ✓
		7	43.7 ✓	45.0 ✓		73° 26'	2,430 ✓
		8	41.7 ✓	43.0 ✓		72° 38'	2,311 ✓
		9	40.6 ✓	41.9 ✓		72° 12'	2,251 ✓
		10	39.2 ✓	40.5 ✓		71° 31'	2,162 ✓
		11	37.8 ✓	39.1 ✓		70° 32'	2,044 ✓
		12	35.6 ✓	36.9 ✓		69° 32'	1,936 ✓
		13	34.2 ✓	35.5 ✓		68° 21'	1,820 ✓
		14	33.2 ✓	34.5 ✓		67° 15'	Beginning of Help 1,724 ✓
		15	32.0 ✓	33.3 ✓		66° 08'	1,633 ✓
		16	30.6 ✓	31.9 ✓		65° 05'	1,556 ✓
		17	29.7 ✓	31.0 ✓		64° 24'	1,508 ✓
		18	29.2 ✓	30.5 ✓		63° 32'	1,452 ✓
		19	28.7 ✓	30.0 ✓		62° 40'	1,398 ✓
		20	28.1 ✓	29.4 ✓		61° 40'	1,341 ✓

D-5

Range Line = 65+00

D-6

Zero 0.0 ✓
Boat +1.0
Tide +0.3 ✓
+1.3 ✓

76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	27.0	28.3		60° 31'	1,278	Cut in Line 65+00
		22	26.3	27.6		59° 23'	1,221	
		23	25.3	26.6		58° 32'	1,181	
		24	24.2	25.5		57° 15'	1,124	
		25	22.9	24.2		55° 16'	1,042	
		26	21.8	23.1		54° 02'	996	
		27	20.7	22.0		52° 25'	939	
D-6	D-5	28	18.6	19.9		50° 45'	885	
		29	16.0	17.3		49° 17'	840	
		30	14.7	16.0		47° 56'	801	Zero 0.0
		31	14.5	15.8		46° 44'	767	Boat +1.0
		32	13.9	15.2		45° 32'	736	Tide +0.3
		33	13.3	14.6		43° 02'	675	+1.3
		34	11.9	13.2		39° 50'	603	
		35	10.7	12.0		36° 44'	539	Rocks
		36	8.8	10.1		34° 03'	488	
		37	7.9	9.2		31° 37'	445	
		38	7.5	8.8		29° 20'	406	
		39	6.3	7.6	7:37	27° 48'	381	

F. B. 2286 Pg. 139 Job No. 0075-24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked KRK X-Sec.
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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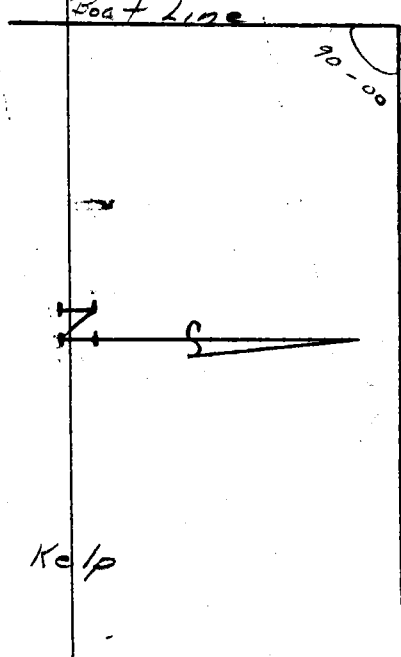
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
65+00	D-5	1			7 24	90°00	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	beginning of Kelp
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. VSH Plotted VCN Job No. 2324 Division No. 10 F. B. 2286 Pg. 135
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked REK Survey by Van Deren Notes WILKS Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Inked Johnson Date

F. B. 2286 Pg. 136 Job No. 2025.24 Division No. 10 Notes Red. JSH Plotted JCN Profile

Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.

Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked KRK X-Sec.

Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		
65+00 D-5	21			90 00		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37			"		
	38			"		
	39		7 37	"		

76L298 S & E #307 9-54

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 67+50	Sight on 70+00
T.P.	2 06	5 20		3 14		Insboro
70+00		+	5 8	11 0		70+00
10' R.		+	6 0	11 2	T.S.	
28' L.		+	6 0	11 2	Brk.	
	5 2		0 0	5 2	13° 52' 62'	
			3 8	1 4	22 23 103'	
			6 5	-1 3	37 16 190'	
			7 7	-2 5	42 32 229'	
			10 6	-5 4	50 25 303'	
			12 6	-7 4	53 21 336'	
T.P.	17 09	19 18	3 11	2 09		
72+22 66	092	19 18	0 92	18 26	D-6, el = 18.263	, F.B. 2293- 44 X
T.P.			1708	2 10		

Profile
Notes Red. VSH Plotted KRK Job No. 007524 Division No. 10 F. B. 2286 Pg. 137
No. Date 12-57 Date 12-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. VCN Checked VCN Survey by ENGLISH Notes ED Date 7-1-57
No. Date 12-57 Date 12-57 Map No. Checked Date

76298 S & E #307—7-55

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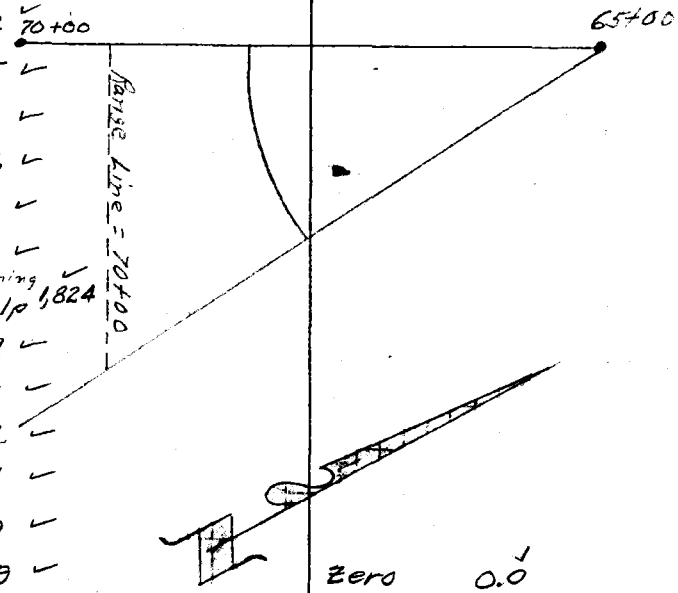
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.		Remarks
65+00	D-6	1	48.4	49.6	7:55	80°	02'	2,845	Cut in Line 70+00
		2	46.8	48.0		79°	52'	2,798	
		3	44.8	46.0		79°	17'	2,642	70+00
		4	43.2	44.4		78°	53'	2,545	
		5	41.3	42.5		78°	10'	2,386	
		6	39.3	40.5		77°	27'	2,246	
		7	37.8	39.0		76°	43'	2,118	
		8	36.2	37.4		75°	50'	1,981	
		9	34.5	35.7		74°	40'	Beginning of Kelp 1,824	
		10	34.0	35.2		73°	52'	1,729	
		11	33.3	34.5		73°	38'	1,703	
		12	32.5	33.7		72°	58'	1,632	
		13	31.1	32.3		71°	52'	1,527	
		14	30.6	31.8		71°	20'	1,480	
		15	29.3	30.5		70°	20'	1,399	
		16	28.0	29.2		69°	18'	1,323	
		17	26.8	28.0		68°	08'	1,246	
		18	26.3	27.5		67°	27'	1,204	
		19	25.3	26.5		66°	26'	1,146	
		20	24.3	25.5		65°	25'	1,093	



Zero 0.0
Boat +1.0
Tide +0.2
+1.2

Profile Notes Red. JCN Plotted KRK Job No. 00 x 24 Division No. 10 F. B. 2286 Pg. 139
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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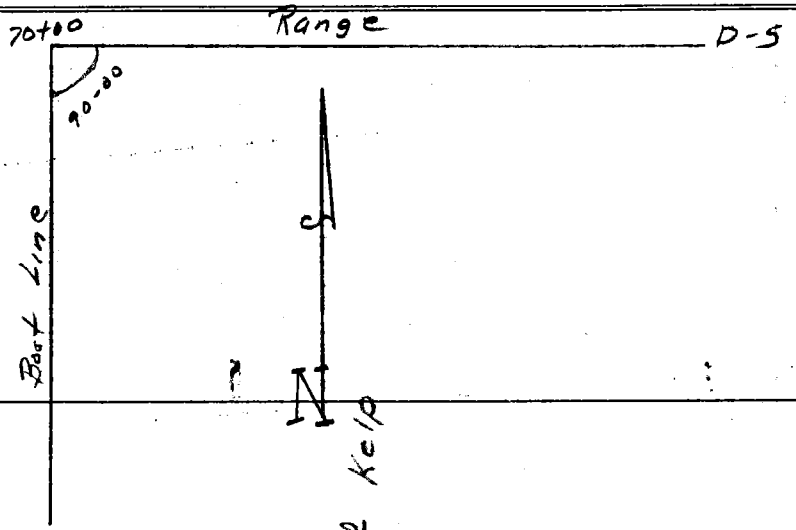
F. B. 2286 Pg. 140 Job No. 2025.29 Division No. 10 Notes Red. VCN Plotted KRK Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes AT Notes Chkd VSH Checked VSH
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks	
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.			
		21	23.3 ✓	24.4 ✓		63° 58'	1,024 ✓	Cut in Line 70+00	
		22	21.8 ✓	22.9 ✓		62° 46'	967 ✓		
		23	19.3 ✓	20.4 ✓		60° 46'	893 ✓		
		24	17.7 ✓	18.8 ✓		58° 52'	828 ✓		
		25	16.2 ✓	17.3 ✓		56° 50'	765 ✓		
		26	14.5 ✓	15.6 ✓		55° 04'	716 ✓		
		27	13.2 ✓	14.3 ✓		53° 14'	669 ✓		
		28	12.3 ✓	13.4 ✓		50° 59'	617 ✓		
65+00	0-6	29	11.0 ✓	12.1 ✓		47° 33'	547 ✓		Zero 0.0 ✓
		30	5.8 ✓	6.9 ✓		43° 18'	471 ✓	Rocks	Boat +1.0
		31	5.5 ✓	6.6 ✓		40° 35'	428 ✓	↓	Tide +0.1 ✓
		32	5.6 ✓	6.7 ✓		38° 33'	398 ✓	highest rock at 2.0'	+1.1 ✓
		33	4.6 ✓	5.7 ✓		35° 45'	360 ✓		
		34	3.5 ✓	4.6 ✓	8:04	32° 38'	320 ✓	↓	
		35							
		36							
		37							
		38							
		39							
		40							

Profile No.	Notes Red. JCN	Plotted KRK	Job No. 0025-24	Division No. 10	F. B. 2286 Pg. 141
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-1-57
	Date 10-57	Date 10-57	Map No. ~~X~~	Indexed G. Johnson	Date



begining of Kelp

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
70+00 D-5	1		7 55	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
70+00	D-5	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34		8 04	"		

F. B. 2286 Pg. 142 Job No. 0075-26 Division No. 10 Notes Red. JCN Plotted KRK Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 70+00	Sight on 72+22 66
T.P.	4 20	6 30		2 10		Inshore
72+22.66		+	12 7	19 0	D-6 =	72+22.66
14' R		+	16 0	22 3	Brk.	
9' L		+	12 4	18 7	"	
25' L		+	5 2	11 5	"	
60' L		+	6 0	12 3	"	
		6 3	0 0	6 3	21° 44' 89'	
			3 8	+2 5	29 15 125'	
			9 6	-3 3	46 10 232'	
			11 1	-4 8	52 11 287'	
			11 5	-5 2	55 44 327'	
			13 2	-6 9	59 20 376'	
T.P.			3 45	2 85		

Profile No. ____ Notes Red. JCN Date 10-57 Plotted JCN Date 10-57 Job No. 0075.24 Division No. 10 Survey of SMALL CRAFT HARBORS

X-Sec. No. ____ Notes Chkd. JSH Date 10-57 Checked JSH Date 10-57 Survey by ENGLISH Notes ED Date 7-1-57 Map No. ____ Indexed Johnson Date ____

F. B. 2286 Pg. 143

76298 S & E #307—7-55

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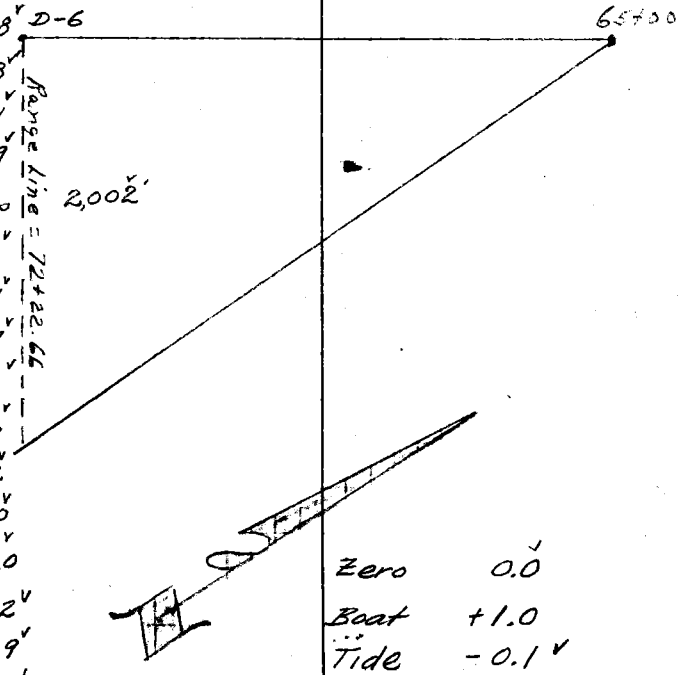
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.		Remarks
		1	48.7	49.6	8:14	75°	13'	2,738	Cut in Line 72+22.66
		2	46.6'	47.5		74°	54'	2,678	
		3	44.7'	45.6		74°	10'	2,548	D-6
		4	42.2'	43.1		73°	10'	2,388	
		5	40.3'	41.2		72°	21'	2,271	
		6	38.3'	39.2		71°	15'	2,129	
		7	36.9'	37.8		70°	09'	Edge of Kelp	2,002'
65+00	D-6	8	35.2'	36.1		68°	02'	1,791	
		9	33.9'	34.8		67°	48'	1,771	
		10	32.8'	33.7		66°	41'	1,677	
		11	32.0'	32.9		66°	10'	1,636	
		12	31.1'	32.0		65°	22'	1,576	
		13	30.3'	31.2		64°	19'	1,502	
		14	29.8'	30.7		63°	40'	1,460	
		15	28.7'	29.6		63°	02'	1,420	
		16	27.8'	28.7		62°	14'	1,372	
		17	27.1'	28.0		61°	28'	1,329	
		18	26.6'	27.5		60°	24'	1,272	
		19	25.8'	26.7		59°	12'	1,212	
		20	24.5'	25.4		57°	53'	1,151	



Zero 0.0
Boat +1.0
Tide -0.1
+0.9

Profile Notes Red. JSH Plotted JSH Job No. 0015.29 Division No. 10 F. B. 2286 Pg. 145
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Beren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. X-Sec. Date

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
65+00	D-6	21	22.6	23.5		56° 18'	1083	Cut in Line 72+22.66
		22	20.9	21.8		55° 17'	1043	
		23	19.4	20.3		53° 41'	983	Rock at 945' at 14.6'
		24	18.0	18.9		51° 46'	917	
		25	16.6	17.5		49° 57'	860	
		26	15.5	16.4		47° 34'	791	Rock at 844' at 9.9'
		27	14.9	15.8		46° 32'	762	
		28	14.5	15.4		44° 45'	716	
		29	13.5	14.4		43° 32'	687	
		30	12.5	13.4		41° 39'	642	Zero 0.0
		31	11.2	12.1		40° 10'	610	Boat +1.0
		32	10.4	11.3		38° 05'	567	Tide -0.1
		33	10.1	11.0		36° 05'	527	+0.9
		34	9.3	10.2		34° 21'	494	
		35	7.4	8.3		31° 55'	450	Rocks
		36	7.3	8.2		30° 10'	420	
		37	6.3	7.2		28° 27'	392	
		38	5.5	6.4		26° 08'	355	
		39	4.7	5.6	8 24	24° 08'	324	

F. B. 2286 Pg. 146 Job No. 0076.29 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JCN X-Sec.
Indexed K. C. Johnson Date 7-1-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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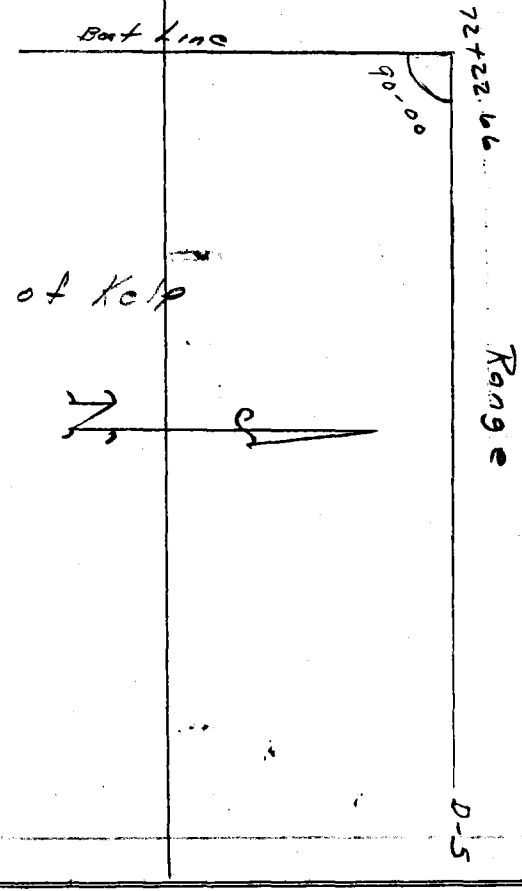
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. B. #	H. I. Depth Rec. Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
72+22.66	D-5	1		8 14	90 00	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	beginning of Kelp
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red. JSH Plotted JSH Job No. 0075-24 Division No. 10 F. B. 2286 Pg. 147
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes Wilks Date 7-1-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
72+22	66 D-5	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39		8 24	"		

F. B. 2286 Pg. 148 Job No. 25 24 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed E. C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 72+22 66	Sight on 75+00
T.P.	3 50	6 35		2 85		Tasbore
75+00		+	3 1	9. 5		75+00
5' R.		+	3 9	10.3	Brk.	
40' R.		+	3 9	10.3	T.S.	
		6 4	0 0	6 4	5° 25' 31'	
			4 6	1 8	13 01 81'	
			7 9	-1 5	22 57 165'	
			9 6	-3 2	28 23 228'	
			11 1	-4 7	31 22 269'	
			12 2	-5 8	33 23 303'	
			12 7	-6 3	36 15 356'	
T.P.			2 59	3 76		

Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 199
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked JSH Survey by ENGLISH Notes ED Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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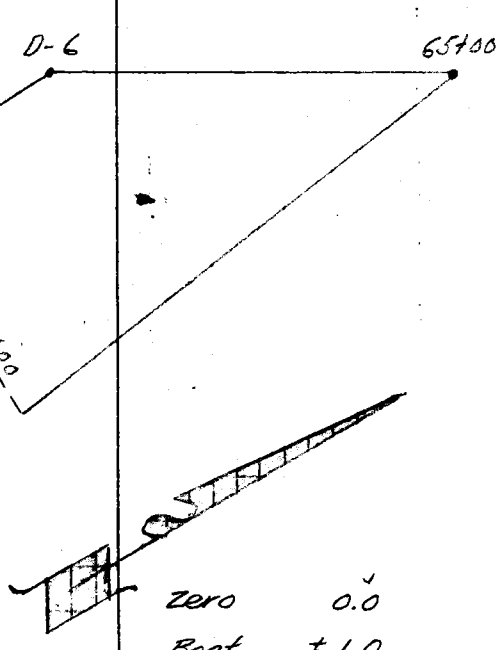
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
65+00	D-6	1	48.4	49.0	8:42	71° 15'	2,770 Cut in Line 75+00
		2	46.8	47.4		70° 47'	2,690
		3	44.4	45.0		69° 47'	2,540
		4	42.3	42.9		68° 58'	2,430
		5	40.8	41.4		67° 52'	2,290
		6	39.3	39.9		66° 37'	2,140
		7	37.1	37.7		65° 15'	D-7 2,005
		8	35.9	36.5		64° 02'	1,890
		9	34.9	35.5		62° 57'	Beginning of Kelp 1,790
		10	34.3	34.9		62° 20'	1,740
		11	33.7	34.3		61° 25'	1,675
		12	32.7	33.3		60° 42'	1,620
		13	32.1	32.7		59° 40'	1,550
		14	30.5	31.1		58° 40'	1,480
		15	29.8	30.4		57° 37'	1,420
		16	28.9	29.5		56° 52'	1,375
		17	27.8	28.4		55° 38'	1,305
		18	26.9	27.5		54° 50'	1,265
		19	24.6	25.2		54° 06'	1,230 Rock at 1220 at 23.4'
		20	24.2	24.8		52° 55'	1,170



Zero	0.0
Boat	+1.0
Tide	-0.4
	+0.6

Profile Notes Red JCN Plotted JCN Job No. 0075129 Division No. 10 F. B. 2286 Pg. 157
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

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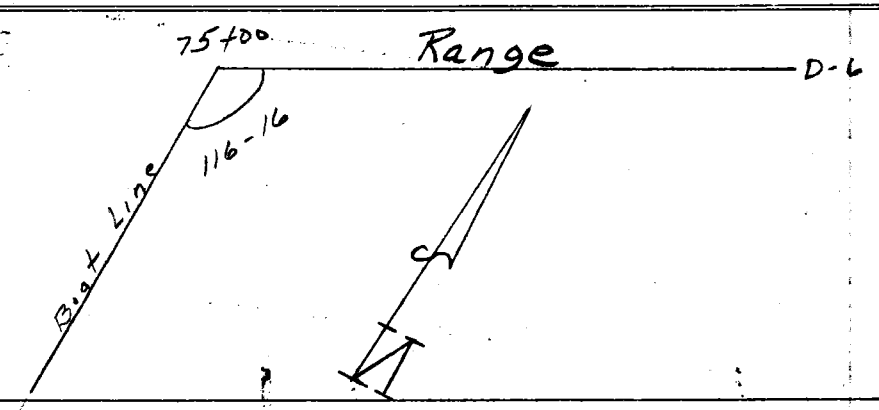
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.		Remarks
65+00	D-6	21	23.3'	23.8		51°	54'	1,120	Cut in Line 75+00
		22	21.3'	21.8		50°	33'	1,065	Rock at 1,065 at 20.5'
		23	21.0'	21.5		49°	30'	1,020	
		24	20.3'	20.8		48°	38'	965	
		25	18.8'	19.3		46°	51'	915	
		26	17.8'	18.3		45°	58'	885	
		27	16.8'	17.3		44°	46'	840	
		28	15.3'	15.8		43°	41'	808	
		29	14.4'	14.9		42°	25'	770	Zero 0.0
		30	12.8'	13.3		40°	36'	710	Boat +1.0
		31	11.4'	11.9		38°	48'	660	Tide -0.5
		32	11.9'	12.4		36°	53'	607	+0.5
		33	10.9'	11.4		35°	35'	571	
		34	9.6'	10.1		34°	12'	539	
		35	7.5'	8.0		33°	24'	519	Rocks
		36	7.4'	7.9		31°	05'	460	
		37	7.2'	7.7		29°	27'	428	
		38	6.9'	7.4		27°	28'	382	
		39	6.1'	6.6		26°	19'	360	
		40	5.7'	6.2	8 50	24°	43	325	

F. B. 2286 Pg. 152 Job No. 0025-24 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes AT. Notes Chkd. JSH Checked JSH X-Sec.
Indexed R. C. Johnson Date Date 10-57 Date 10-57 No.

Profile	Notes Red. JCN	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2286	Pg. 153
No.	Date 10-57	Date 10-57	Survey of Small Craft Harbor			
X-Sec.	Notes Chkd. JSH	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-1-57	
No.	Date 10-57	Date 10-57	Map No. ~~Index~~ Johnson		Date	



begining okelp

STATION	B.S.	H.I.	F.B.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
75+00 D-6	1		8 42	116 16	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76298 S & E #307—7-55

F. B. 2286 Pg. 159 | Job No. 0075 24 | Division No. 10 | Notes Red. JCN | Plotted JCN | Profile

Survey of Small Craft Harbor | Date 7-1-57 | Date 10-57 | No.

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

Indexed A. C. Johnson | Date | Date 10-57 | Date 10-57 | No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. B.	ELEV.		Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		
75+00 D.6	21			116 16		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37			"		
	38			"		
	39			"		
	40			"		
			8 50			

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 75+00	Sight on 77+50
T.P.	2 47	6 23		3 76		Inshore
77+50		+	1 6	7 8		77+50
5' R		+	2 6	8 8	Bot. Cliff	
		6 2				
			1 2	5 0	4° 53' 25'	
			3 7	2 5	10° 34' 57'	
			7 0	-0 8	22 43 147'	
			8 7	-2 5	27 55 200'	
			11 5	-5 3	34 29 290'	
T.P.	8 97	13 67	1 53	4 70		
77+74.12	2 66	13 58	2 75	10 92	D-7, el = 10.919, F.B. 2243-13	
T.P.			8 93	4 65		

Profile No. ____ Notes Red. JSH Date 10-57 Plotted JSH Date 10-57 Job No. 007524 Division No. 10 Survey of SMALL CRAFT HARBORS

X-Sec. No. ____ Notes Chkd. JCN Date 10-57 Checked JCN Date 10-57 Survey by ENGLISH Notes ED Date 7-1-57 Map No. ____ Date ____

F. B. 2286 Pg. 155

76298 S & E #307—7-55

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.	Remarks
		1	47.2	47.3	9:06	53°	42'	2,457 Cut in Line 77+50
		2	45.7	45.8		53°	31'	2,403
		3	44.1	44.2		53°	22'	D-7 2,362 D-6
		4	42.1	42.2		52°	45'	2,215
		5	40.8	40.9		52°	32'	2,165
		6	39.7	39.8		52°	11'	2,095
		7	38.4	38.5		51°	39'	Beginning of Kelp 1,989
D-6	D-7	8	37.4	37.5		50°	54'	1,848 ?
		9	36.1	36.2		51°	08'	1,895 ?
		10	35.4	35.5		50°	50'	1,846
		11	34.3	34.4		49°	50'	1,685
		12	33.7	33.8		49°	24'	1,630
		13	32.7	32.8		48°	50'	1,550
		14	32.4	32.5		48°	38'	1,530
		15	32.2	32.3		48°	13'	1,478 ?
		16	32.0	32.1		48°	10'	1,475 ?
		17	31.3	31.4		47°	48'	1,430
		18	30.4	30.5		47°	20'	1,379
		19	29.5	29.6		46°	57'	1,340
		20	28.9	29.0		46°	12'	1,270

Range Line = 77+50

Zero	0.0
Boat	+1.0
Tide	-0.9
	+0.1

Profile Notes Red. JSH Plotted JSH Job No. 00725.24 Division No. 10 F. B. 2286 Pg. 157
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Date

Johnson

76298 S & E #307—7-55

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F. B. 2286 Pg. 138 Job No. 62572 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Ken Deren Notes R.T. Notes Chkd VCM Checked VCM
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	28.3	28.4		46° 00'	1,250	Cut in Line 77+50
		22	27.3	27.4		45° 17'	1,188	
		23	25.9	26.0		44° 52'	1,155	
		24	24.9	25.0		44° 21'	1,120	
		25	23.3	23.4		43° 35'	1,060	
		26	22.0	22.1		42° 59'	1,015	
		27	21.7	21.8		42° 28'	990	
		28	21.3	21.4		41° 26'	925	
		29	19.1	19.2		40° 04'	850	
D-6	D-7	30	16.5	16.6		38° 55'	793	Zero 0.0
		31	14.4	14.5		37° 07'	713	Boat +1.0
		32	13.1	13.2		35° 51'	661	Tide -0.9
		33	12.1	12.2		34° 10'	603	
		34	11.4	11.5		32° 02'	535	+0.1
		35	8.6	8.7		30° 44'	498	Rock at 313 at 8.4
		36	9.5	9.6		28° 58'	452	Rock
		37	8.3	8.4		27° 32'	415	
		38	7.1	7.2		24° 33'	345	
		39	5.9	6.0		23° 06'	322	
		40	4.9	5.0	9:15	21° 23'	288	

76298 S & E #307—7-55

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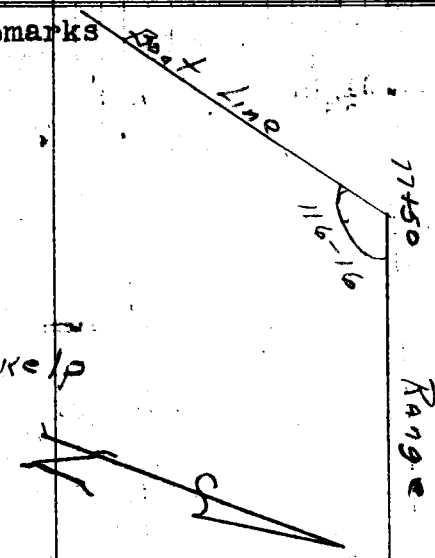
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor.	Ang.	Remarks
77+50	D-6	1			9 06	116	16	
		2				"		
		3				"		
		4				"		
		5				"		
		6				"		
		7				"		begining of kelp
		8				"		
		9				"		
		10				"		
		11				"		
		12				"		
		13				"		
		14				"		
		15				"		
		16				"		
		17				"		
		18				"		
		19				"		
		20				"		



Profile Notes Red. JSH Plotted JSH Job No. 0025-24 Division No. 10 F. B. 2286 Pg. 159
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes Wilks Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
77+50		21			116 16		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40		9 15	"		

F. B. 2286 Pg. 160 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 82+50	Sight on 80+00
T.P.	3 06	7 71		4 65		Inshore 80+00
80+00		+	4 4	12 1		
17 R.		+	6 6	14 3	Brk.	
32 R		+	7 0	14 7	Bot. Cliff.	
18 5/8 L		7 7	0 0	7 7		
			3 9	3 8	11° 26' 51" W	
			7 5	0 2	23 29 109' W	
			13 7	-6 0	37 40 192' W	
			13 1	-5 4	44 47 246' W	
			14 5	-6.8	50 26 300' W	
T.P.			2 95	4 76		

Profile Notes Red. JSH Plotted JSH Job No. 0025.24 Division No. 10 F. B. 2286 Pg. 161
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JCN Survey by English Notes E.J. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Index Date

76298 S & E #307—7-55

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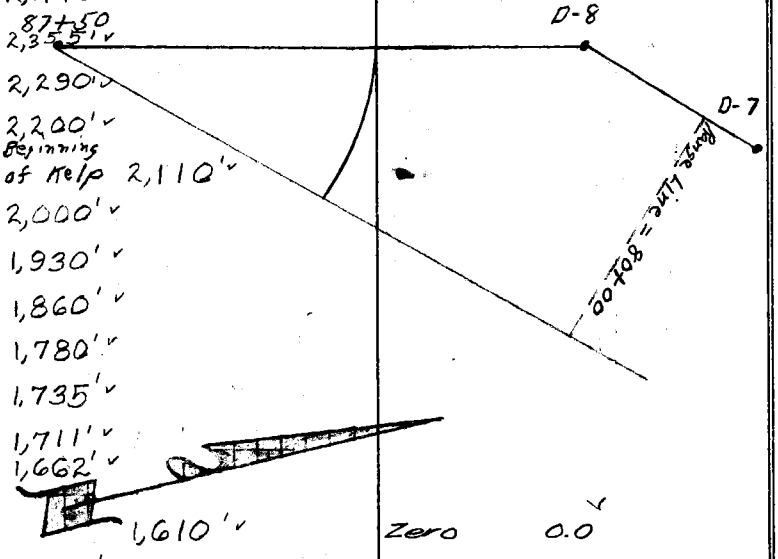
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
87+50	D-8	1	48.5'	47.9	9:40	97° 58'	2,540' Cut in Line 80+00
		2	46.7'	46.1		97° 02'	2,410'
		3	45.3'	44.7		96° 36'	2,355' 87+50
		4	43.8'	43.2		96° 05'	2,290'
		5	42.0'	41.4		95° 16'	2,200'
		6	40.0'	39.4		94° 25'	Beginning of Kelp 2,110'
		7	39.0'	38.4		93° 18'	2,000'
		8	37.8'	37.2		92° 32'	1,930'
		9	36.6'	36.0		91° 40'	1,860'
		10	33.0'	32.4		90° 38'	1,780'
		11	31.3'	30.7		90° 02'	1,735'
		12	31.3'	30.7		89° 39'	1,711'
		13	31.8'	31.2		88° 53'	1,662'
		14	33.2'	32.6		88° 03'	1,610'
		15	32.2'	31.6		86° 58'	1,551'
		16	30.8'	30.2		85° 48'	1,480'
		17	29.7'	29.1		84° 26'	1,410'
		18	28.7'	28.1		82° 49'	1,335'
		19	27.6'	27.0		81° 53'	1,295'
		20	25.3'	24.7		79° 35'	1,205'



Zero	0.0
Boat	+1.0
Tide	-1.6
	-0.6

Profile No. ____ Date ____ Notes Red. JCN Date 10-57 Plotted JCN Date 10-57 Job No. 0073.24 Division No. 10 Survey of Small Craft Harbor F. B. 2286 Pg. 163

X-Sec. No. ____ Date ____ Notes Chkd. JSH Date 10-57 Checked JSH Date 10-57 Survey by Van Deren Notes N.T. Date 7-1-57 Map No. ____ Date ____

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

F. B. 2286 Pg. 169 Job No. 2325-24 Division No. Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 2-1-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JSH
Indexed L. C. Johnson Date Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
	21	24.6 / 23.9		78° 10'	1,152'	Cut in Line = 80+00
	22	24.4 / 23.7		77° 14'	1,121'	
	23	23.7 / 23.0		76° 05'	1,080'	
	24	21.9 / 21.2		74° 00'	1,022'	
	25	20.4 / 19.7		72° 04'	970'	
	26	18.7 / 18.0		69° 37'	905'	
	27	17.7 / 17.0		67° 22'	850'	
	28	17.1 / 16.4		65° 14'	803'	
87×50	29	15.9 / 15.2		62° 54'	757'	Zero 0.0
0-8	30	14.7 / 14.0		59° 13'	687'	Boat +1.0
	31	13.0 / 12.3		56° 16'	632'	Tide -1.7
	32	11.8 / 11.1		52° 14'	568'	-0.7
	33	11.1 / 10.4		48° 45'	517'	
	34	10.3 / 9.6		42° 55'	435'	
	35	8.1 / 7.4		37° 44'	362'	
	36	7.8 / 7.1		33° 55'	313'	
	37	4.7 / 4.0		30° 44'	274'	Rock at 2.7 at 270'
	38	5.1 / 4.4	9:49	26° 59'	226'	
	39					
	40					

76298 S & E #307—7-55

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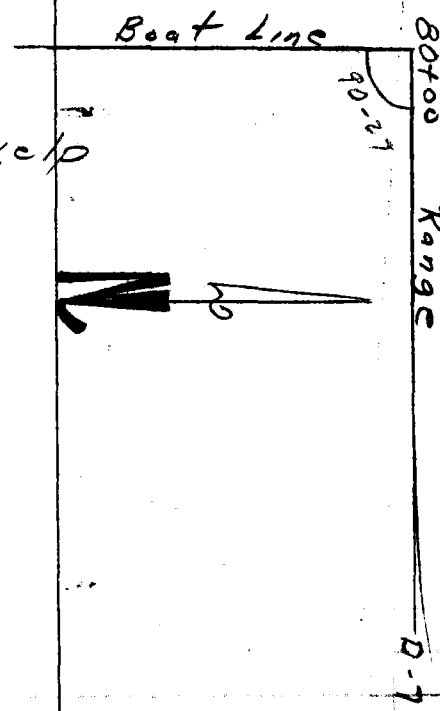
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
90+00	D-7	1			9 40	90 17	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	begining of kelp
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. JCN Plotted JCN Job No. 0025.24 Division No. 10 F. B. 2286 Pg. 165
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JSH Checked JSH Survey by Van Deren Notes Wilks Date 7-1-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

F. B. 2286 Pg. 166 Job No. 0025.24 Division No. 10 Notes Red. JCN Plotted JCN Profile

Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.

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

Indexed A. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

PLEASE RETURN TO

LOS ANGELES COUNTY ENGINEER

700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
80+00 D-7	21			90 27		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37			"		
	38		9 49	"		

76L298 S & E #307 9-54

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 80+00	Sight on 82+50
T.P.	1 96	6 72		4 76		Inshore 82+50
82+50		+	6 0	12 7		
28' R		+	6 0	12 7		
21' L		+	6 0	12 7		
		6 7	0 0	6 7	11° 34' 51'	
			3 9	2 8	19 54 91'	
			7 5	-0 8	31 94 156'	
			7 9	-1 2	38 93 201'	
			9 8	-3 1	45 26 256'	
			11 1	-4 4	51 57 323'	
T.P.			1 85	4 87		

Profile Notes Red JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 167
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JSH Survey by English Notes Ed. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

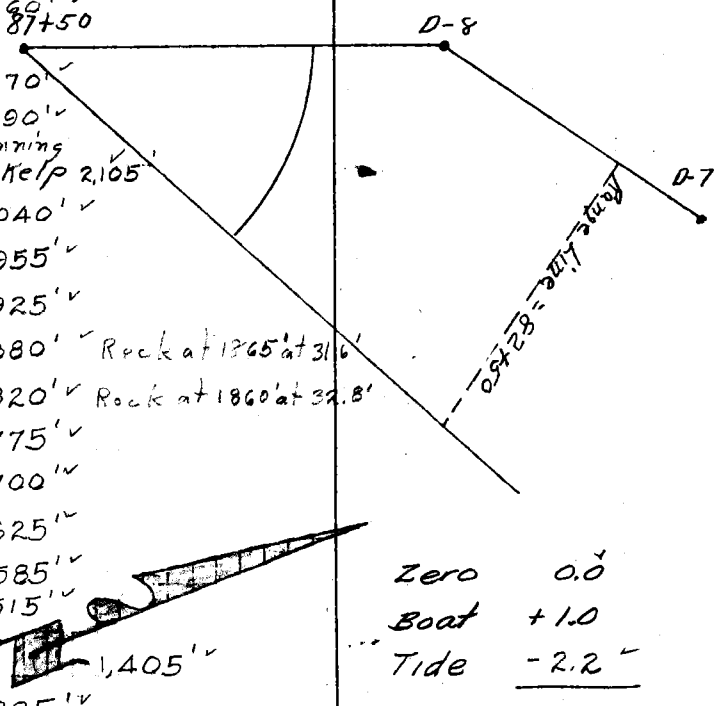
76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. B. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
87+50	D-8	1	48.8'	47.6	10:05	103° 38'	2,515' Cut in Line 82+50
		2	47.3'	46.1		103° 27'	2,475'
		3	44.4'	43.2		102° 50'	2,360'
		4	41.7'	40.5		102° 21'	2,270'
		5	39.3'	38.1		101° 51'	2,190'
		6	38.3'	37.1		101° 19'	Beginning of Kelp 2,105'
		7	37.8'	36.6		100° 49'	2,040'
		8	37.6'	36.4		100° 11'	1,955'
		9	37.0'	35.8		99° 57'	1,925'
		10	34.2'	33.0		99° 32'	1,880' Rock at 1865' at 31.6'
		11	35.8'	34.6		99° 00'	1,820' Rock at 1860' at 32.8'
		12	35.8'	34.6		98° 37'	1,775'
		13	34.3'	33.1		97° 41'	1,700'
		14	33.0'	31.8		96° 58'	1,625'
		15	31.4'	30.2		96° 31'	1,585'
		16	30.3'	29.1		95° 38'	1,515'
		17	29.2'	28.0		94° 00'	1,405'
		18	27.6'	26.4		93° 32'	1,385'
		19	25.6'	24.4		92° 23'	1,310'
		20	24.2'	23.0		91° 23'	1,255'



Zero	0.0
Boat	+1.0
Tide	-2.2
	-1.2

Profile Notes Red. KRK Plotted KRK Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 169
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Indexed Date

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	23.2'	21.9		89° 42'	1,175' Cut in Line	= 82+50
		22	21.9'	20.6		87° 54'	1,100'	
		23	20.9'	19.6		86° 15'	1,043'	
		24	20.0'	18.7		84° 42'	990'	
		25	18.7'	17.4		83° 11'	940'	
		26	17.2'	15.9		80° 53'	881'	
		27	16.2'	14.9		79° 38'	850'	
		28	16.2'	14.9		77° 54'	810'	
		29	15.3'	14.0		75° 22'	758'	
87+50		30	13.5'	12.2		72° 26'	701'	Zero 0.0
	0-8	31	13.3'	12.0		68° 51'	640'	Boat +1.0
		32	12.8'	11.5		66° 10'	601'	Tide -2.3
		33	11.8'	10.5		62° 54'	559'	
		34	10.4'	9.1		57° 35'	492'	-1.3
		35	8.8'	7.5		53° 50'	455'	
		36	7.7'	6.4		48° 38'	400'	
		37	6.4'	5.1		44° 02'	357'	
		38	5.0'	3.7		38° 18'	310'	
		39	4.4'	3.1	10:14	33° 23'	270'	
		40						

F. B. 2286 Pg. 170 Job No. 0025.24 Division No. 10 Notes Red. KRK Plotted KRK Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. VSH Checked VSH X-Sec.
Indexed [illegible] Date Date 10-57 Date 10-57 No.

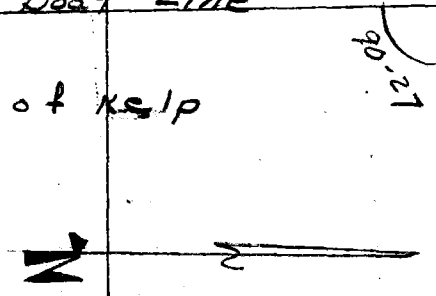
76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
82+50	D-7	1			10 05	90 27	
		2				"	
		3				"	
		4				"	Boat Line
		5				"	
		6				"	begining of kelp
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



82+50
90-27
Range
D-7

Profile Notes Red. JSH Plotted JSH Job No. 2075.24 Division No. 10 F. B. 2286 Pg. 171
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes W. Iks Date 7-1-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
82+50	D-7	21			90 27		
		22			"		
		23			"		
		24			"		
		25			"		
		26					
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39		10 14	"		

F. B. 2286 Pg. 172 Job No. 0025.24 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed E. C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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

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

Do not extend notes this side of this line.

Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2286 Pg. 173
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JSH Survey by Eagle & Notes Ed. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. K. Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 82+76.97 Sight 85+00	
T.P.	3 33	8 20		4 87		Inshore
85+00		+	0 3	8 5		85+00
28' R		+	3 0	11 2	Bot. Cliff	
			4 4	3 8	9° 38' 45	
			7 9	0 3	19 07 101	
			8 6	-0 4	22 57 129	
			8 7	-0 5	27 40 169	
			10 6	-2 4	32 18 219	
			12 6	-4 4	35 09 255	
T.P.	9 61	14 48	3 33	4 87		F.B. 44
82+76.97			2 82	11 66	D-8, el = 11.663, 2243-~~12~~	

76298 S & E #307—7-55

PLEASE RETURN TO
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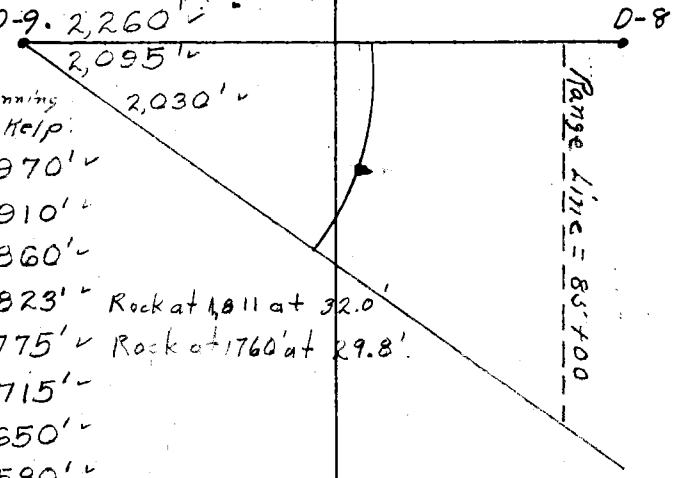
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	48.8	47.0	10:33	105° 58'	2,450' Cut in Line = 85+00
		2	46.3	44.5		105° 35'	2,365'
		3	44.6	42.8		105° 11'	D-9. 2,260' D-8
		4	40.8	39.0		104° 22'	2,095'
		5	40.2	38.4		104° 02'	Beginning of Kelp. 2,030'
		6	39.4	37.6		103° 39'	1,970'
		7	38.7	36.9		103° 18'	1,910'
D-9	D-8	8	37.3	35.5		102° 56'	1,860'
		9	35.4	33.6		102° 41'	1,823' Rock at 1,811 at 32.0'
		10	35.3	33.5		102° 18'	1,775' Rock at 1760' at 29.8'
		11	34.8	33.0		101° 51'	1,715'
		12	33.7	31.9		101° 16'	1,650'
		13	32.8	31.0		100° 41'	1,580'
		14	32.2	30.4		99° 57'	1,505'
		15	30.1	28.3		99° 09'	1,440'
		16	28.9	27.1		98° 38'	1,395'
		17	27.7	25.9		98° 05'	1,350'
		18	25.5	23.7		97° 14'	1,290'
		19	23.5	21.7		95° 56'	1,205'
		20	22.8	21.0		94° 46'	1,145'



Zero	0.0
Boat	+1.0
Tide	-2.8
	-1.8

Profile Notes Red. JSH Plotted JSH Job No. 0075-29 Division No. 10 F. B. 2286 Pg. 175
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes R.T. Date 7-1-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	22.7'	20.8		94° 04'	1,105' Cut in Line	85+00
		22	22.3'	20.4		93° 13'	1,065'	
		23	21.2'	19.3		92° 15'	1,025'	
		24	20.3'	18.4		90° 42'	960'	
		25	19.2'	17.3		87° 50'	870'	
		26	17.6'	15.7		85° 24'	805'	
		27	16.8'	14.9		83° 58'	765'	
		28	15.9'	14.0		81° 07'	700'	
		29	15.5'	13.6		78° 59'	662'	
D-9	D-8	30	13.4'	11.5		74° 27'	585'	Zero 0.0
		31	12.6'	10.7		71° 23'	542'	Boat +1.0
		32	10.8'	8.9		65° 33'	472'	Tide -2.9
		33	7.4'	5.5		60° 00'	417' Rock at 400' at 3.7'	-1.9
		34	6.9'	5.0		52° 16'	350' Rocks	
		35	6.2'	4.3		44° 04'	290'	
		36	4.1'	2.2	10:42	35° 44'	235'	
		37						
		38						
		39						
		40						

F. B. 2286 Pg. 176 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JCN X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

PLEASE RETURN TO
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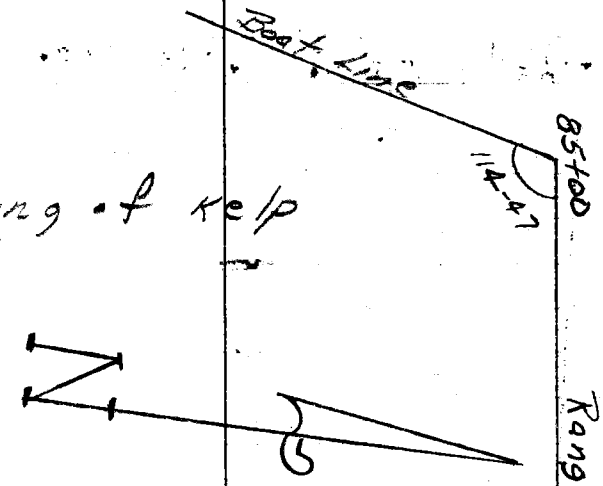
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
85+00	D-8	1			10 33	114 47	
		2				"	
		3				"	
		4				"	
		5				"	begining of kelp
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. JSH Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 177
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes WLKS Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

F. B. 2286 Pg. 178 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JSH Profile

Survey of Small Craft Harbor Date 7-1-57 Date 10-57 No.

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

Indexed E. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On 8700 D-8	#	Depth Rec. Adj.	Time	Hor. Ang.		
	21			114 47		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36		10 42	"		

Notes Ck'd by KRK	Survey of Small Craft Harbor	F. B. 2286 Pg. 179
Map No.	JN 0075-24 Tape Std °F	
Office Work JCN	Surveyed by M.A. Van Deran	
Checked KRK	Notes Van Date 7-2-57	
Date 10-57	Indexed A. C. Johnson 7-8-57	

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Savingtime

7-2-57

Gauge Time				Predicted
A.M. 7:00		+0.2	0.0	0.0
" 7:30		+0.2	0.0	-0.1
" 8:00		+0.4	0.2	0.0
" 8:30		+0.7	0.5	0.1
" 9:00		+1.0	0.8	0.4
" 9:30		+1.4	1.2	0.8
" 10:00		+2.0	1.8	1.4
" 10:30		+2.8	2.6	1.9
" 11:00		+3.2	3.0	2.3
" 11:30		+3.7	3.5	2.8
" 12:00	Watch Time	+3.9	3.7	3.4
P.M. 12:30		+4.5	4.3	
" 1:00	1:00	+4.8	4.6	

Subtract 0.2 from above readings to match tide staff.

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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76F3098 SAE #247 1-56

76F309S S&E #247 1-56

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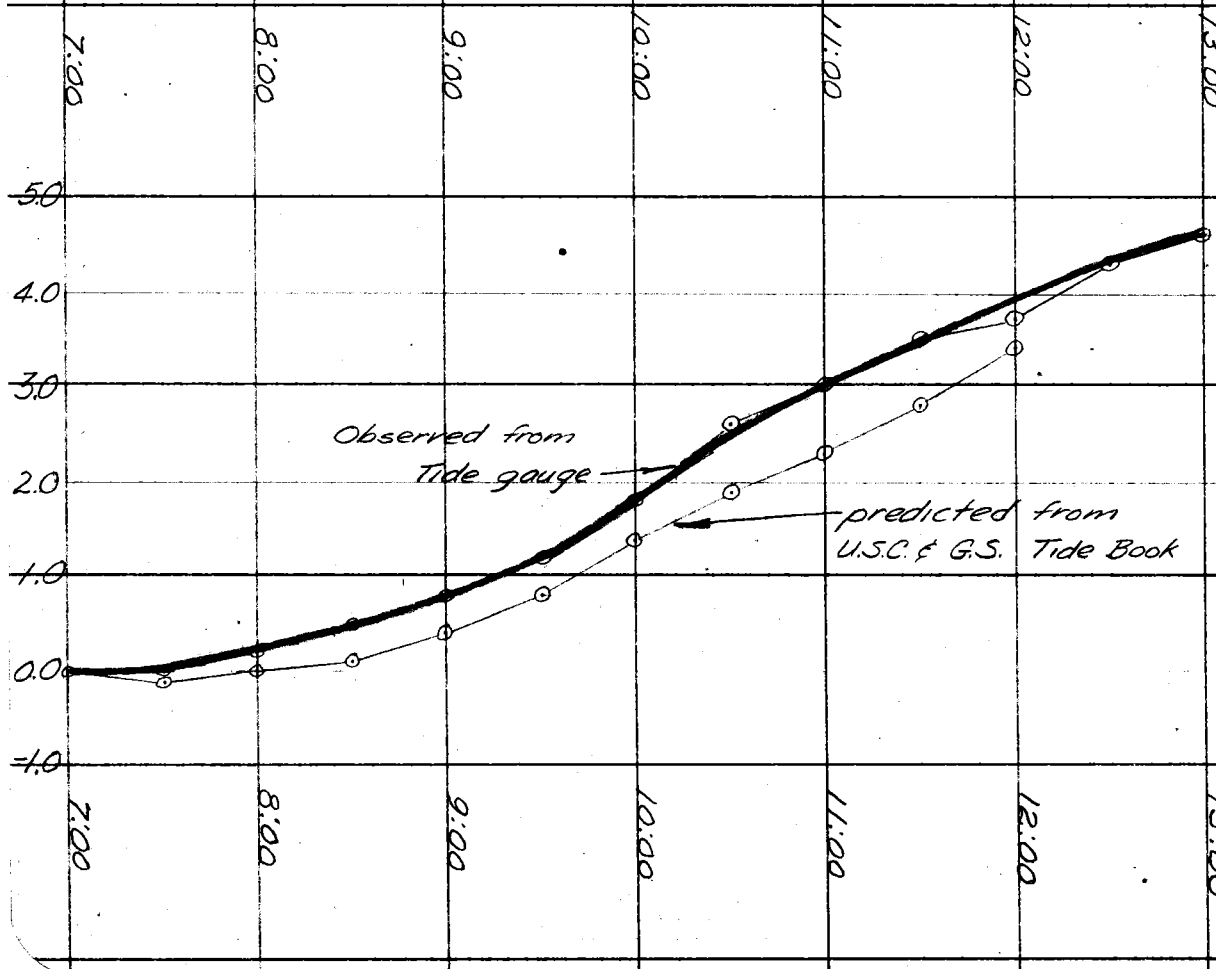

Notes Ck'd by KRK
Map No.
Office Work VCN
Checked KRK
Date 10-57

Survey of Small Craft Harbor
JN 0225.24 Tape Std. °F
Surveyed by
Notes Date
Indexed

F. B. 2286 Pg. 180

July 2, 1957

76L298 S & E #307 9-54

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Profile Notes Red. JCN Plotted KRK Job No. 0075.24 Division No. 10 F.B. 2286 Pg. 181
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Clkd. KRK Checked JCN Survey by ENGLISH Notes ED Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Inspected by Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 88+93 92	Sight on 87+50
88+93 92	0 23	9 22		8 99	D-9, el.= 8.991; F.B. 2243-Inshore	
87+50		+	0 7	9 9		87+50
28 'R		+	1 2	10 4	Bot. Cliff	44
		9 2	4 9	4 3	20 17 50 ✓	
			8 0	1 2	38 08 91 ✓	
			8 9	0 3	53 31 132 ✓	
			9 2	0 0	69 96 191 ✓	
			11 2	-2 0	73 38 210 ✓	
			11 1	-1 9	87 51 318 ✓	
			14 1	-4 9	88 44 328 ✓	
			9 5	-0 3 / -1 7	94 17 (?) 409 ✓	Top of rocks
			16 6	-7 4	97 40 486 ✓	
T.P.			4 30	4 92		

(Rocky)

76298 S & E #307—7-55

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Profile Notes Red. KRK Plotted JCW Job No. 2282 Division No. 10 F. B. 2286 Pg. 183
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes RT Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.	Remarks
Inst. At / Sight On	#	Depth Rec. / Adj.	Time			
	1	—	7:51		70° 42'	2,691'± Cut in Line 87+50
	2	48.3'	48.6		70° 12'	2,605'±
	3	49.3'	49.6		69° 36'	2,505'±
	4	48.4'	48.7		69° 09'	2,440'±
	5	47.1'	47.4		68° 38'	D-10 2,370'± D-9
	6	45.3'	45.6		68° 00'	2,290'±
	7	44.0'	44.3		67° 32'	2,231'±
	8	42.2'	42.5		66° 54'	2,160'±
	9	40.9'	41.2		66° 19'	2,090'±
	10	39.7'	40.0		65° 36'	Beginning of Kelp 2,020'±
	11	38.5'	38.8		64° 57'	1,950'±
	12	37.3'	37.6		64° 34'	1,914'±
	13	36.4'	36.7		64° 00'	1,865'±
	14	35.3'	35.6		63° 31'	1,820'±
	15	33.9'	34.2		62° 50'	1,767'±
	16	31.9'	32.2		61° 58'	1,695'±
	17	31.3'	31.6		61° 07'	1,632'±
	18	31.0'	31.3		60° 22'	1,580'±
	19	29.8'	30.1		59° 50'	1,550'±
	20	29.0'	29.3		58° 25'	1,460'±

D-8

Base Line = 87+50

Shots	1-34	35-40
Zero	-0.5	-0.8
Boat	+1.0	+1.0
Tide	-0.2'±	-0.3'±
	+0.3'±	-0.1'±

D-10 D-9

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	27.8'	28.1		57° 21'	1,400' ✓ Cut in Line 87+50
		22	27.7'	28.0		56° 37'	1,358' ✓
		23	26.8'	27.1		56° 12'	1,335' ✓
		24	25.5'	25.8		55° 25'	1,295' ✓
		25	24.4'	24.7		54° 25'	1,247' ✓
		26	23.5'	23.8		53° 20'	1,198' ✓
		27	22.5'	22.8		52° 37'	1,166' ✓
0-10	0-9	28	21.3'	21.6		51° 37'	1,125' ✓
		29	20.4'	20.7		50° 37'	1,084' ✓
		30	19.4'	19.7		49° 03'	1,030' ✓
		31	19.2'	19.5		47° 42'	982' ✓
		32	17.6'	17.9		46° 30'	943' ✓
		33	16.3'	16.6		45° 00'	895' ✓
		34	15.9'	16.2	7 8:08	43° 41'	853' ✓
		35	16.4'	16.3	8:07	42° 19'	820' ✓
		36	15.6'	15.5		41° 32'	798' ✓
		37	14.2'	14.1		39° 57'	756' ✓
		38	13.7'	13.6		39° 32'	741' ✓
		39	13.1'	13.0		39° 02'	730' ✓
		40	11.7'	11.6		35° 58'	660' ✓

	1-34	35-40
Shot		
Zero	-0.5 ✓	-0.8 ✓
Boat	+1.0	+1.0
Tide	-0.2 ✓	-0.3
	+0.3 ✓	-0.1 ✓

F. B. 2286 PG. 189 Job No. 0035.24 Division No. 10 Notes Red. KRK Plotted JCN Profile No.
Survey of Small Craft Harbor Date 7-2-57 Date 10-57 X-Sec. No.
Survey by Van Deren Notes B.T. Notes Chkd. VSH Checked VSH
Indexed R. C. Johnson Date Date 10-57 Date 10-57 No.

Profile No.	Notes Red. KRK	Plotted JCN	Job No. 2025.24	Division No. 10	F. B. 2286 Pg. 185
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JSH	Survey by Van Deren	Notes R.T.	Date 7-2-57
	Date 10-57	Date 10-57	Map No. ~~X~~ C. Johnson	Indexed	Date

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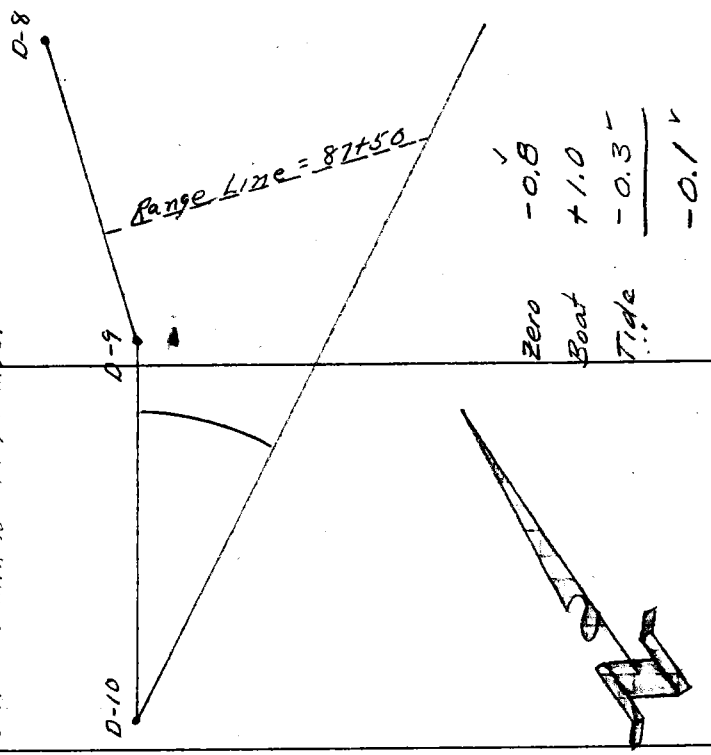
76298 S & E #307—7-55

STATION Inst. Sight At On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
	41	10.8' 10.7		33° 34'	Rock on shot 605 Cut in Line 87+50
	42	8.4' 8.3	8:09	30° 45'	Above 550 surface within 10' of This shot.
	43				
	44				
	45				



Zero	-0.8
Boat	+1.0
Tide	-0.3
	-0.1

D-9

D-10

F. B. 2286 Pg. 186 Job No. 0525.29 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 7-2-57 Date No.

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

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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

76298 S & E #307—7-55

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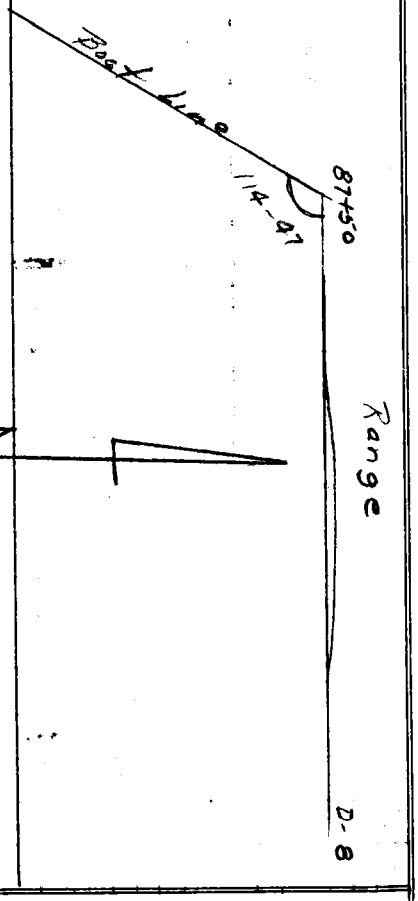
Profile Notes Red. VSH Plotted VCN Job No. 22.24 Division No. 10 F. B. 2286 Pg. 187
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VSH Survey by Van Deusen Notes Wilks Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
87+50	D-8	1			7 51	114 47	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	beginning of Kelp
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
87450	D-8	21			114 47		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34		7 58	"		
		35		8 07	"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 188 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed E. O. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
87+50 D-B	41			114 47		
	42		B 09	"	Rocks above surface within 10' of shot	

Profile Notes Red. USH Plotted VCN Job No. 295.1 Division No. 12 F. B. 2286 Pg. 189
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked USH Survey by Van Deren Notes W.I.K.S. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. A. Carlson Date

F. B. Pg. 190 Job No. 5075-24 Division No. Notes Red. Plotted Profile

Survey of Small Craft Harbors Date Date No.

Survey by Van Dercen Notes Wilks Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

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

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76298 S & E #307—7-55

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 88+93 92		Sight on 90+00
T.P.	0 67	5 59		4 92			Inshore
90+00		+	6 0	11 6			90+00
24' R.		+	7 0	12 6	Bot. Cliff		
5' L		+	6 0	11 6			
			0 0	5 6	22° 12'	42	
		5 6	4 6	1 0	49 52	119	
			7 4	-1 8	66 30	218	
			5 3	+0 3	70 25	261	Top of rocks
			9 7	-4 1	72 26	289	
			10 6	-5 0	76 15	359	
			11 7	-6 1	77 12	380	
			13 4	-7 8	78 47	426	
			12 9	-7 3	79 56	462	
			13 7	-8 1	81 31	530	
T.P.			3 72	1 87			

Profile Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 191
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked JCN Survey by ENGLISH Notes ED Date 7-2-57
No. Date 10-57 Date 10-57 Map No. ~~X-Index~~ ~~Johnson~~ Date

76298 S & E #307—7-55

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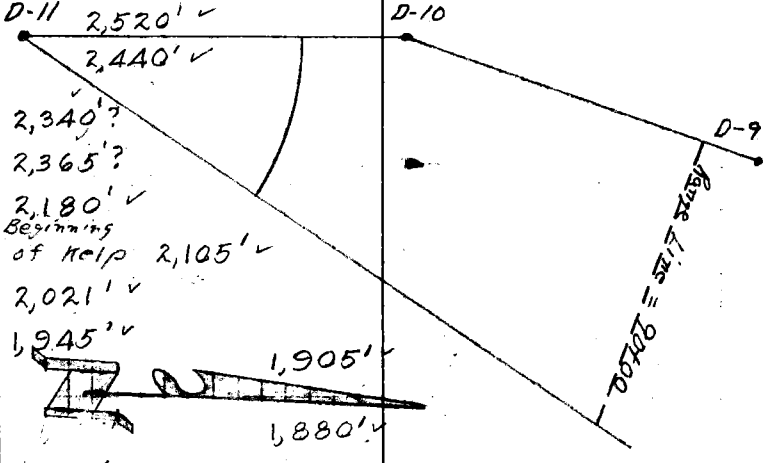
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-11	D-10	1	49.7	49.3	8:25	103° 53'	2,690' Cut in Line 90+00
		2	49.4	49.0		103° 10'	2,580'
		3	47.4	47.0		102° 39'	D-11 2,520'
		4	45.3	44.9		102° 00'	2,440'
		5	43.7	43.3		101° 10'	2,340'?
		6	41.8	41.4		101° 22'	2,365'?
		7	38.4	38.0		99° 34'	2,180'
		8	36.2	35.8		98° 51'	Beginning of Kelp 2,105'
		9	35.3	34.9		97° 57'	2,021'
		10	33.9	33.5		96° 55'	1,945'
		11	32.4	32.0		96° 30'	1,905'
		12	31.0	30.6		96° 08'	1,880'
		13	30.2	29.8		95° 03'	1,800'
		14	31.3	30.9		94° 06'	1,734'
		15	30.8	30.4		93° 00'	1,665'
		16	28.7	28.3		92° 07'	1,615'
		17	29.7	29.3		91° 22'	1,570'
		18	28.8	28.4		90° 30'	1,522'
		19	27.7	27.3		89° 18'	1,462'
		20	26.8	26.4		88° 30'	1,422'



Zero	-0.9
Boat	+1.0
Tide	-0.5
	-0.4

Profile Notes Red. JSH Plotted JCN Job No. 00762 Division No. 10 F. S. 2286 Pg. 193
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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F. B. 2286 Pg. 194 | Job No. 22623 Division No. 10 Notes Red JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes A.T. Notes Chkd. JCN Checked JSH
Indexed E. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	27.0	26.6		87° 06'	1,360' Cut in Line 90+00	
		22	25.9	25.5		85° 50'	1,306'	
		23	25.2	24.8		84° 04'	1,234'	
		24	24.1	23.7		83° 54'	1,228'	
		25	23.3	22.9		83° 03'	1,195'	
		26	21.9	21.5		81° 30'	1,142'	
		27	20.1	19.7		79° 16'	1,068'	
D-11	D-10	28	19.0	18.6		77° 13'	1,006'	
		29	17.7	17.3		75° 31'	958'	
		30	16.8	16.4		73° 08'	894'	Zero -0.9
		31	16.3	15.9		71° 40'	856'	Boat +1.0
		32	14.1	13.7		70° 53'	838'	Tide -0.5
		33	11.7	11.3		68° 22'	779'	-0.4
		34	15.5	15.1		67° 10'	752'	
		35	14.0	13.6		64° 36'	698'	
		36	12.8	12.4		62° 03'	647'	
		37	12.3	11.9		59° 47'	603'	
		38	10.8	10.4		57° 31'	560'	
		39	9.9	9.5		55° 55'	531'	
		40	8.9	8.5		53° 03'	480'	

76298 S & E #307—7-55

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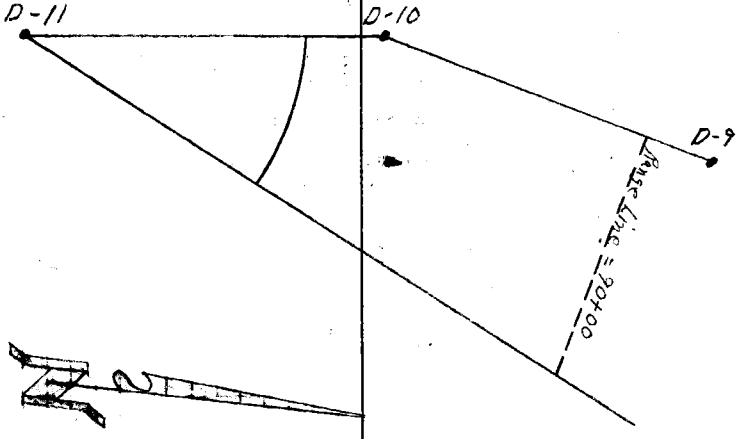
Profile Notes Red. VSH Plotted VCN Job No. 2286 Division No. 12 F. B. 2286 Pg. 195
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VSH Survey by Hamberson Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

STATION Inst. At	STATION Sight On	B. S.	H. I. # Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-11	D-10	41	8.7	8.3		50° 25'	439', Cut in Line 90+00
D-10	D-9	42	6.7	6.3	8:34	47° 34'	393'



Zero	-0.9
Boat	+1.0
Tide	-0.5
	-0.4

F. B. 2286 Pg. 196 Job No. 0075.24 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 7-2-57 Date No.

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

Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

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

76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
90+00	D-9	1			8 25	87 04	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	begining of kelp
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	

90+00 Range D-9

Boat Line

87-04

Profile Notes Red. VCN Plotted VSH Job No. 2326 Division No. 12 F. B. 2286 Pg. 197
No. Date 10-57 Date 10-57 Survey of Spell Craft Harbor
X-Sec. Notes Ckd. VSH Checked VCN Survey by Ka Dersa Notes Wilks Date 7-2-57
No. Date 10-57 Date 12-57 Map No. Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
90+00	D-9	21			87 04		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2286 Pg. 198 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile No.
Survey of Small Craft Harbor Date 10-57 Date 10-57 X-Sec.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN
Indexed C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
90+00	D-9	41		8 34	87 04		
		42					

Profile Notes Red. JCN Plotted JSH Job No. 0075.26 Division No. 10 F. B. 2286 Pg. 199
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes W. Iks Date 7-2-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

F. B. 2286 Pg. 200 | Job No. 00725.29 | Division No. | Notes Red | Plotted | Profile

Survey of Small Craft Harbor | Date | Date | No.

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

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

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

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76L298 S & E #307 9-54

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Profile Notes Red. VCN Plotted VSH Job No. 007524 Division No. 10 F. B. 2286 PG. 201
No. Date 12-57 Date 12-57 Survey of SMALL CRAFT HARBOR
X-Sec. Notes Chkd. VSH Date 12-57 Checked VCN Survey by ENGLISH Notes ED Date 12-2-57
No. Date 12-57 Date 12-57 Map No. [illegible] Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 90+00	Sight on 92+50
T.P.	4 15	6 02		1.87		Inshore
92+50		+	6 6	12 6		92+50
10' R		+	8 2	14 2	Brk.	
40' R		+	16 8	22 8	Top sand Bank	
		6 0	0 0	6 0	10° 22'	45' ✓
			4 0	2 0	21 11	95' ✓
			7 1	-1 1	30 59	146' ✓
			9 7	-3 7	39 20	198' ✓
			11 2	-5 2	45 16	241' ✓
			10 2	-4 2	49 34	277' ✓
			11 9	-5 9	53 33	317' ✓
			11 6	-5 6	56 16	348' ✓
			12 3	-6 3	58 46	381' ✓
			14 2	-8 2	62.23	437' ✓
T.P.			4 04	1.98		

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		8:45	109° 56'	2,870' Cut in line 92+50
		2	47.6	46.9		108° 57'	2,675'
		3	45.9	45.2		108° 21'	D-11 2,560' D-10
		4	43.8	43.1		107° 50'	2,470'
		5	41.6	40.9		107° 02'	2,350' D-9
		6	37.3	36.6		106° 01'	2,200'
		7	33.8	33.1		105° 11'	Beginning of Kelp 2,100'
D-11	D-10	8	32.5	31.8		104° 32'	2,025'
		9	31.9	31.2		103° 55'	1,960'
		10	30.6	29.9		103° 18'	1,895'
		11	29.4	28.7		102° 51'	1,855'
		12	28.1	27.4		102° 25'	1,820'
		13	26.0	25.3		101° 37'	1,745'
		14	25.5	24.8		100° 46'	1,680'
		15	24.4	23.7		99° 51'	1,610'
		16	22.4	21.7		98° 49'	1,540'
		17	22.9	22.2		98° 11'	1,505'
		18	22.4	21.7		97° 24'	1,450'
		19	21.5	20.8		96° 02'	1,375'
		20	20.6	19.9		94° 30'	1,300'

Range Line = 92+50

Zero −1.0
Boat +1.0
Tide −0.7
−0.7

Profile Notes Red. JCN Plotted JSH Job No. 0078.29 Division No. 10 F. B. 2286 Pg. 203
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by VanDeren Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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F. B. 2286 Pg. 204 Job No. 62514 Division No. 10 Notes Red. VCN Plotted VSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. VSH Checked VCN X-Sec.
Indexed K. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec. Depth	Adj.	Time	Hor. Ang.	Remarks	
		21	19.5	18.8		93° 07'	1,240' Cut in Line	92+50
		22	16.8	16.1		91° 47'	1,180'	
		23	16.6	15.9		90° 51'	1,145'	
		24	17.1	16.4		89° 56'	1,110'	
		25	17.4	16.7		88° 32'	1,065'	
		26	16.8	16.1		87° 07'	1,020'	
		27	15.9	15.2		85° 45'	980'	
		28	16.0	15.3		83° 54'	925'	
D-10	D-11	29	15.4	14.7		81° 48'	870'	
		30	14.3	13.6		79° 12'	815'	
		31	13.5	12.8		76° 16'	750'	
		32	13.0	12.3		73° 24'	695'	
		33	12.8	12.1		71° 22'	660'	
		34	11.8	11.1		69° 38'	630'	
		35	11.2	10.5		67° 16'	590'	
		36	10.9	10.2		65° 00'	555'	
		37	10.6	9.9		62° 20'	520'	
		38	10.0	9.3		59° 49'	485'	
		39	9.3	8.6		57° 07'	450'	
		40	9.0	8.3		54° 17'	415'	
		41	8.6	7.9	8:53	51° 57'	385'	

Zero -1.0
Boat +1.0
Tide -0.7
-0.7

76298 S & E #307—7-55

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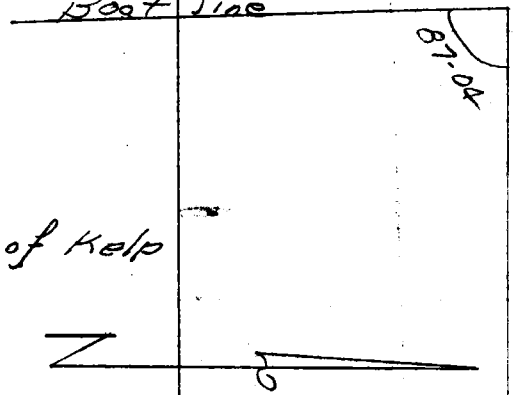
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
92+50	D-9	1			8.45	87 04	
		2				"	Boat Line
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	begining of Kelp
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



92+50 Range

87.04

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2236 Pg. 265
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-2-57
No. Date 10-57 Date 10-57 Map No. ~~X. Ge. Johnson~~ Date

76298 S & E #307—7-55

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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.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
92+50	D-9	21			87.04		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		
		41		8.53	"		

F. B. 2286 Pg. 206 Job No. 00524 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Kg Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed A. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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Profile Notes Red. VCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2286 Pg. 107
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked VCN Survey by ENGLISH Notes F.B. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 92+50	Sight on 95+00
T.P.	4 34	6 32		1 98		Inshore
95+00		+	6 0	12 3		95+00
42' L		+	5 0	11 3		
			0 0	6 3	120 071	76'
			4 3	2 0	26 51	124'
		6 3	7 8	-1 5	38 31	192'
			8 9	-26	97 53	263'
			10 1	-38	51 35	297'
			11 1	-48	55 22	338'
			11 8	-55	57 20	363'
			12 3	-60	59 44	394'
			13 1	-68	62 16	433'
			14 0	-77	64 50	480'
			14 2	-79	66 58	525'
			14 4	-81	68 23	561'
			15 2	-89	69 37	591'
T.P.	11 43	14 48	3 27	3 05		
75+46.13	3 20	14 48	3 20	11 28	D-10, el = 11.279'	F.B. 2243-~~18~~ 44
T.P.			11 42	3 06		

76298 S & E #307—7-55

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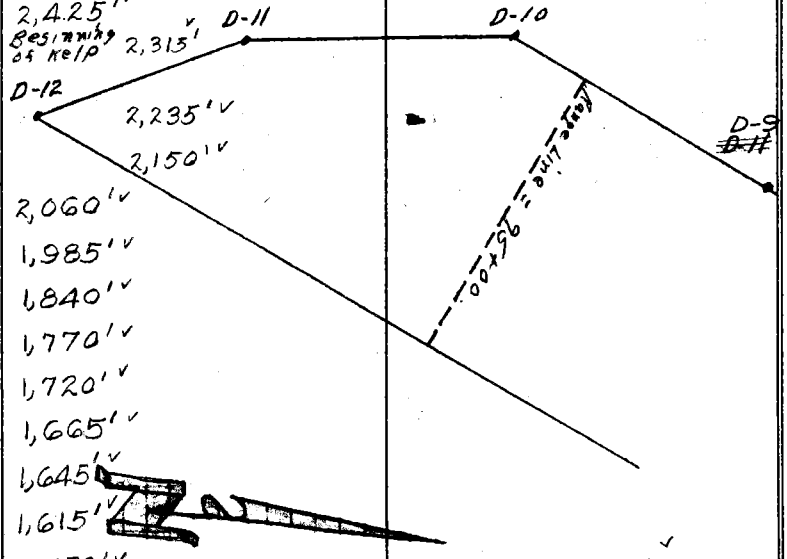
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-12	D-11	1	49.4	48.4	9:06	133° 00'	2,850' Cut in Line 95+00
		2	47.0	46.0		131° 59'	2,690'
		3	43.8	42.8		131° 18'	2,580'
		4	40.9	39.9		130° 04'	2,425' Beginning of Kelp
		5	37.9	36.9		129° 04	2,315'
		6	35.8	34.8		128° 16'	2,235'
		7	33.8	32.8		127° 26'	2,150'
		8	31.0	30.0		126° 29'	2,060'
		9	28.2	27.2		125° 27'	1,985'
		10	24.1	23.1		123° 18'	1,840'
		11	22.8	21.8		122° 02'	1,770'
		12	21.2	20.2		121° 12'	1,720'
		13	20.6	19.6		120° 07'	1,665'
		14	19.7	18.7		119° 28'	1,645'
		15	18.6	17.6		119° 00'	1,615'
		16	17.8	16.8		117° 37'	1,550'
		17	16.2	15.2		116° 12'	1,495'
		18	19.4	18.4		114° 12'	1,425'
		19	17.3	16.3		112° 31'	1,365'
		20	17.1	16.1		111° 16'	1,330'



Zero	-1.1
Boat	+1.0
Tide	-0.9
	-1.0

Profile Notes Red. JSH Plotted JCN Job No. 0075124 Division No. 10 F. B. 2286 Pg. 204
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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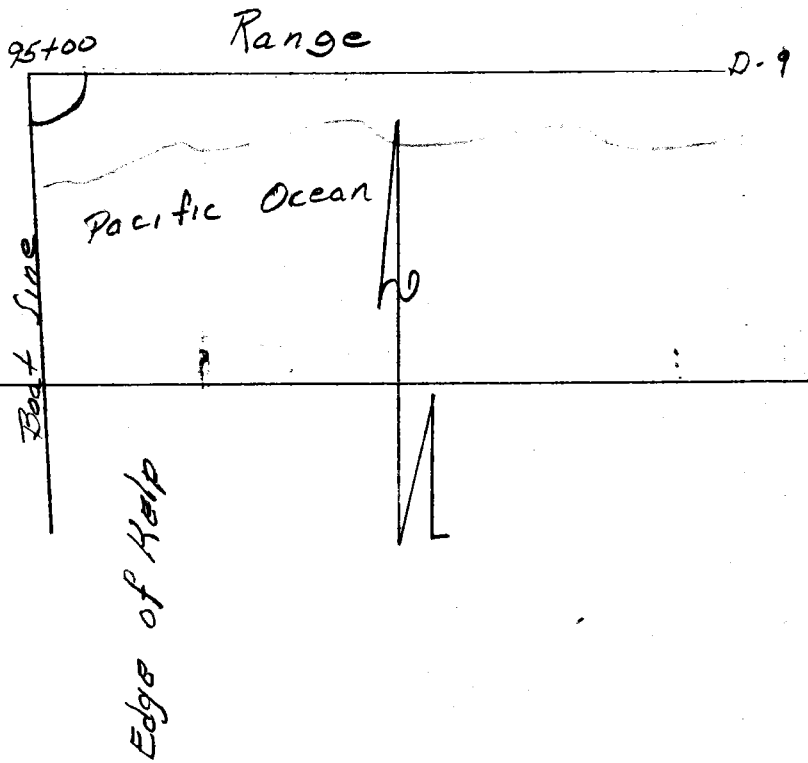
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	17.2'	16.1		108° 47	1,265'	Cut in Line 95+00
		22	17.1'	16.0		107° 56	1,240'	
		23	15.9'	14.8		106° 06	1,195'	
		24	14.3'	13.2		103° 20	1,135'	Racks
		25	12.2'	11.1		100° 46	1,085'	
		26	10.7'	9.6		99° 19'	1,055'	
		27	11.5'	10.4		97° 13'	1,020'	
		28	13.6'	12.5		94° 18'	975'	
D-12	D-11	29	13.2'	12.1		90° 52'	920'	
		30	13.0'	11.9		87° 50'	875'	Zero -1.1
		31	12.4'	11.3		82° 54'	815'	Boat +1.0
		32	11.4'	10.3		78° 36'	760'	Tide -1.0
		33	10.3'	9.2		74° 48'	720'	-1.1
		34	10.1'	9.0		69° 39'	665'	
		35	9.7'	8.6		65° 04'	615'	
		36	9.2'	8.1		60° 21'	570'	
		37	8.7'	7.6		55° 05'	515'	
		38	8.5'	7.4	9:14	50° 39	470'	
		39						
		40						

F. B. 2286 Pg. 210 Job No. 0075.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 003.24	Division No. 10	F. B. 2286 Pg. 211
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-2-57
	Date 10-57	Date 10-57	Map No. [redacted]	Indexed Johnson	Date



STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
95+00	D-9	1		9:06	87 04	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	

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76298 S & E #307—7-55

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F. B. 2286 Pg. 1/2 | Job No. 02752 | Division No. 10 | Notes Red. VSH | Plotted VCN | Profile
Survey of Seagull Craft Harbor | Date 10-57 | Date 10-57 | No.
Survey by Van Doren Notes Wilks | Notes Chkd VCN | Checked VSH | X-Sec.
Indexed E. C. Johnson Date 7-2-57 | Date 10-57 | Date 10-57 | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
95+00 / D-9	21			87° 02'		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37			"		
	38		9:14	"		

76L296 S & E #307 9-54

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

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

Do not extend notes this side of this line.

Profile Notes Red. JSH Plotted VCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 113
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. VCN Checked JSH Survey by ENGINEER Notes ED Date 7-23-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 95+46.15 Sight on 97+50		
T.P.	294	6 00		3 06			Inshore 97+50
97+50		+	6 0	12 0			
29' R		+	6 0	12 0	Bot. Cliff		
16' L		+	5 0	11 0	Brk.		
59' L		+	0 0	6 0			
		6 0	4 3	1 7	27° 08'	104' ✓	
			7 5	-1 5	38 06	160' ✓	
			9 5	-3 5	48 28	230' ✓	
			10 5	-4 5	52 31	266' ✓	
			11 5	-5 5	58 50	337' ✓	
			13 8	-7 8	64 33	428' ✓	
			14 6	-8 6	67 16	487' ✓	
			14 6	-8 6	69 23	542' ✓	
T.P.			3 78	2 22			

76298 S & E #307—7-55

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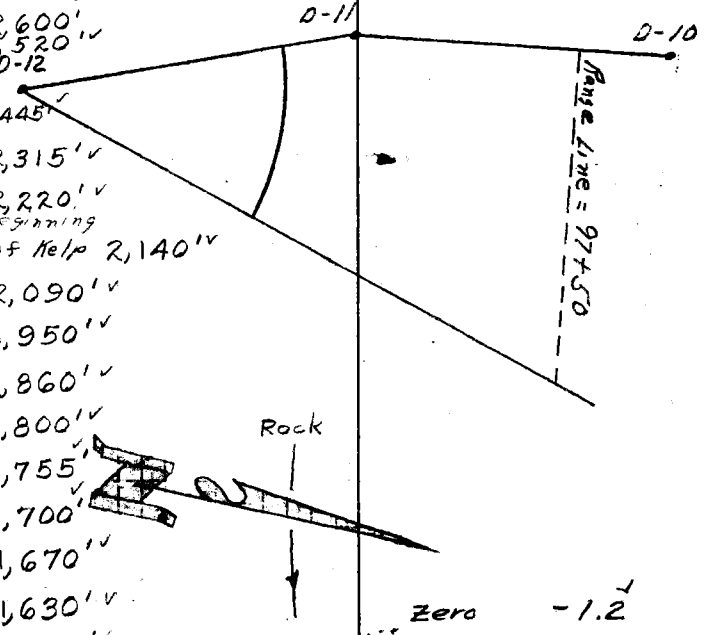
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-12	D-11	1	51.9'	50.4	9:31	103° 00'	2,820' Cut in Line 97+50
		2	51.0'	49.5		102° 37'	2,725'
		3	49.3'	47.8		102° 03'	2,600'
		4	47.8'	46.3		101° 40'	2,520' D-12
		5	45.9'	44.4		101° 14'	2,445'
		6	43.6'	42.1		100° 30'	2,315'
		7	40.5'	39.0		99° 55'	2,220'
		8	38.8'	37.3		99° 22'	Beginning of Kelp 2,140'
		9	37.5'	36.0		98° 56'	2,090'
		10	36.5'	35.0		97° 50'	1,950'
		11	35.0'	33.5		97° 03'	1,860'
		12	32.6'	31.1		96° 27'	1,800'
		13	31.2'	29.7		95° 56'	1,755'
		14	29.0'	27.5		95° 21'	1,700'
		15	28.0'	26.5		94° 58'	1,670'
		16	29.4'	27.9		94° 26'	1,630'
		17	29.0'	27.5		93° 48'	1,590'
		18	28.6'	27.1		92° 50'	1,505'
		19	27.7'	26.2		92° 04'	1,460'
		20	25.6'	24.1		90° 36'	1,365'



Zero	-1.2
Boat	+1.0
Tide	-1.3
	-1.5

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 215
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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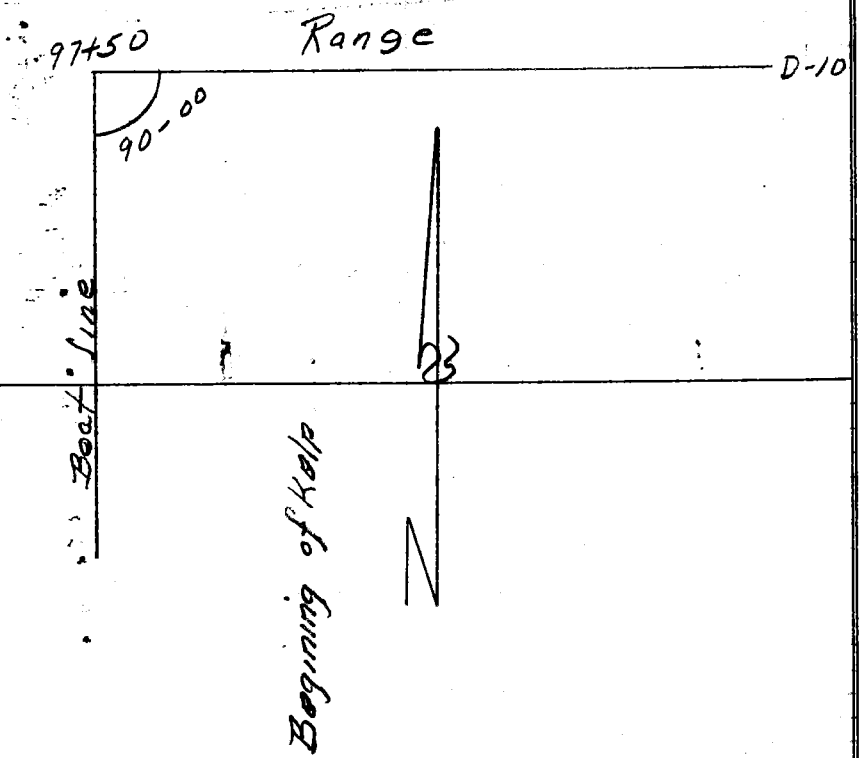
F. B. 2286 Pg. 116 Job No. 2215 Division No. 10 Notes Red. VSH Plotted VCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Doren Notes RT Notes Chkd. VCN Checked VSH
Indexed C. Johnson Date 7-2-57 Date 10-57 No.
Profile X-Sec.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks	
		21	24.0 ✓	22.5	—	89° 36'	1,315'	Cut in Line 97+50	
		22	22.7 ✓	21.2	—	88° 50'	1,275' ✓		
		23	20.9 ✓	19.4	—	87° 38'	1,220'		
		24	19.8 ✓	18.3	—	86° 17'	1,160' ✓		
		25	19.1 ✓	17.6	—	84° 44'	1,100' ✓		
		26	17.9 ✓	16.4	—	83° 16'	1,045' ✓		
		27	18.1 ✓	16.6	—	82° 02'	1,005' ✓		
		28	17.1 ✓	15.6	—	80° 02'	945' ✓		
D-12	D-11	29	15.7 ✓	14.2	—	78° 17'	895' ✓	Rocks	
		30	14.3 ✓	12.8	—	75° 29'	825' ✓		Zero −1.2
		31	13.3 ✓	11.8	—	73° 18'	775' ✓	Highest rock at 5.1'	Board +1.0
		32	13.7 ✓	12.2	—	70° 26'	720' ✓		Tide −1.3 ✓
		33	11.6 ✓	10.1	—	67° 13'	660' ✓		−1.5 ✓
		34	11.5 ✓	10.0	—	64° 45'	620' ✓		
		35	10.8 ✓	9.3	—	61° 36'	570' ✓		
		36	11.1 ✓	9.6	—	57° 20'	515' ✓		
		37	10.3 ✓	8.8	9:39	53° 15'	460' ✓		
		38							
		39							
		40							

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2286 Pg. 217
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-2-57
	Date 10-57	Date 10-57	Map No. ~~Indexed~~ C. Johnson		Date



STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
97+50	D-10	1		9:31	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	

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76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
97+50	D-10	21			90° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37		9:39	"		

F. B. 2286 Pg. 218 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 103+15 (D-12)	Sight on 102+50.
T.P.	9 14	6 36		2 22		Inshore
100+00		+	4 0	10 4		100+00
20' R.		+	4 0	10 4	Brk.	
36' L.			0 0	6 4		
		6 4				
			3 6	2 8	13° 32'	75
			5 6	0 8	28 28	150
			6 0	0 4	40 22	212
			8 5	-2 1	48 58	262
			10 8	-4 4	63 03	360
			12 5	-6 1	69 40	374
			13 1	-6 7	72 24	449
T.P.			3 54	2 82		

Profile
Notes Red. JCN Plotted VSH Job No. 007524 Division No. 10 F. B. 2286 Pg. 219
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. VSH Checked VCN Survey by ENGLISH Notes ED Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Index Color Date

76298 S & E #307—7-55

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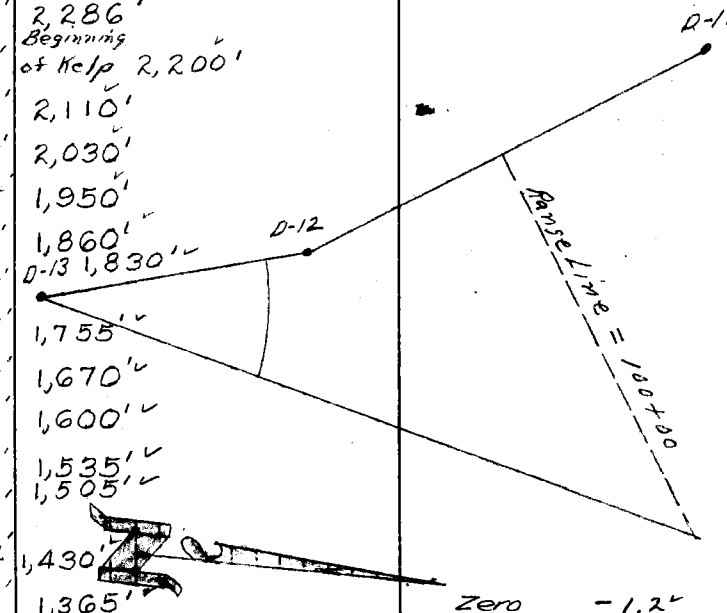
Profile Notes Red. JCN Plotted JSH Job No. 02324 Division No. 10 F. B. 2286 Pg. 121
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

STATION		B. B.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	52.6	50.6	9:52	87° 05'	2,670'	Cut in Line 100+00
		2	51.3	49.4		86° 35'	2,550'	
		3	49.2	47.3		85° 46'	2,365'	
		4	46.9	45.0		85° 26'	2,286'	
		5	44.8	42.9		84° 57'	Beginning of Kelp 2,200'	
		6	42.7	40.8		84° 28'	2,110'	
		7	41.3	39.4		83° 55'	2,030'	
		8	40.2	38.3		83° 25'	1,950'	
		9	37.6	35.7		82° 47'	1,860'	
		10	35.7	33.8		82° 28'	1,830'	
		11	34.2	32.3		81° 55'	1,755'	
		12	32.2	30.3		81° 08'	1,670'	
		13	28.2	26.3		80° 32'	1,600'	
		14	27.8	25.9		79° 47'	1,535'	
		15	27.1	25.2		79° 20'	1,505'	
		16	26.1	24.2		78° 24'	1,430'	
		17	24.3	22.4		77° 32'	1,365'	
		18	22.7	20.8		76° 35'	1,300'	
		19	21.3	19.4		75° 29'	1,240'	
		20	20.8	18.9		74° 25'	1,180'	



Zero	-1.2
Boat	+1.0
Tide	-1.7
	-1.9

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	20.4	18.4		73° 50'	1,150' Cut in Line 100+00	
		22	19.2	17.2		72° 08'	1,075'	
		23	18.2	16.2		70° 56'	1,023'	
		24	16.8	14.8		69° 52'	985'	
		25	16.2	14.2		68° 45'	941'	
		26	16.3	14.3		67° 53'	920'	
		27	15.4	13.4		66° 07'	865'	
		28	14.3	12.3		64° 04'	810'	
D-13	D-12	29	13.8	11.8		63° 37'	800'	
		30	13.9	11.9		61° 34'	745'	Zero -1.2
		31	13.7	11.7		59° 38'	702'	Boat +1.0
		32	12.0	10.0		58° 01'	675' Rock	Tide -1.8
		33	10.5	8.5		55° 32'	630' Highest rock	-2.0
		34	10.3	8.3		53° 15'	591' at 4.5'	
		35	10.3	8.3		49° 20'	535'	
		36	9.9	7.9		47° 47'	515'	
		37	9.3	7.3		45° 42'	490'	
		38	8.8	6.8		44° 00'	470'	
		39	9.0	7.0		40° 22'	428'	
		40	8.5	6.5	10:01	37° 13'	395'	

F. B. 2286 Pg. 212 Job No. 0075.24 Division No. 10 Notes Red. VCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deven Notes - Notes Chkd. JSH Checked VCN X-Sec.
Indexed K. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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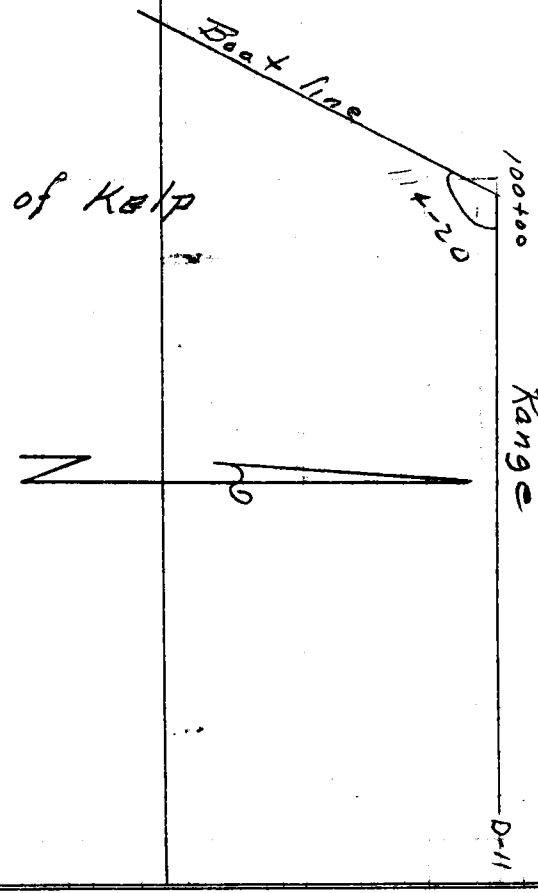
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
100+00	D-11	1			9:52	114° 20'	
		2				"	
		3				"	
		4				"	
		5				"	Begining of Kelp
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile Notes Red. VCN Plotted JSH Job No. 00 25.24 Division No. 10 F. B. 2286 Pg. 223
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked VCN Survey by Ken Deren Notes Wilks Date 7-2-57
No. Date 10-57 Date 10-57 Map No. ~~Kinder Johnson~~ Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
100+00	D-11	21			114 20		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40		10:01	"		

F. B. 2286 Pg. 124 Job No. 0025.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Ken Jeren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed R. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 100+00	Sight on 102+50
T.P.	3 99	6 81		2 82		Inshore
102+50		+	2 4	9 2		102+50
8' R		+	4 2	11 0		
19' L		6 8	1 0	5 8		
			4 1	2 7	11° 07' 59'	
			6 4	0 4	22 26 140'	
			8 7	-1 9	28 43 200'	
			10 9	-4 1	34 17 271'	
			14 5	~~8 3~~ -7.7	38 34 342'	
T.P.	8 34	13 49	1 66	5 15		
103+15.04			1 16	12 33	D-12, el = 12.376	, F.B. 2243-~~12~~ 44

Profile Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2286 PG. 225
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JCN Checked JSH Survey by [illegible] Notes [illegible] Date 7-2-57
No. Date 10-57 Date 10-57 Map No. ~~Indexed~~ Date

76298 S & E #307—7-55

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

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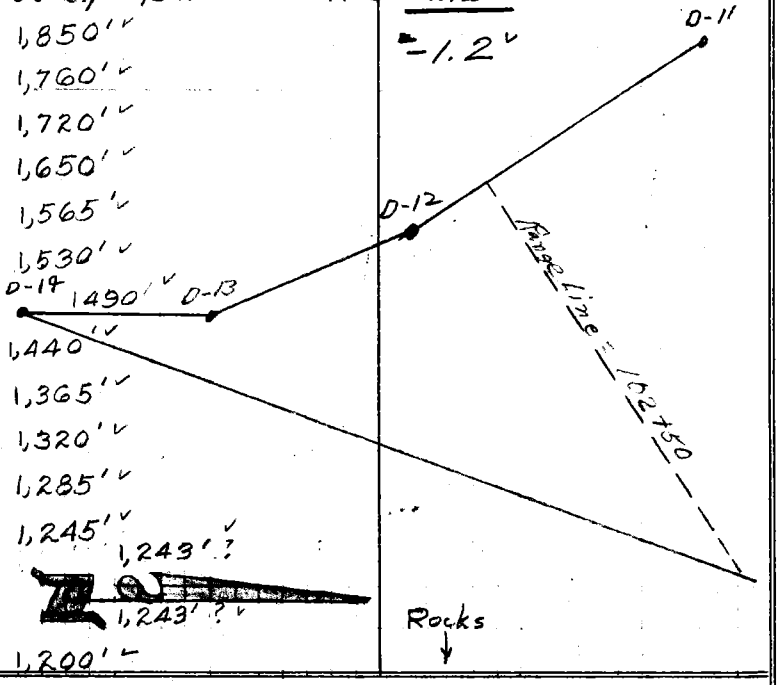
Profile Notes Red. VCN Plotted VSH Job No. 22529 Division No. 10 F. B. 2286 Pg. 127
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VSH Checked VCN Survey by Van Dereh Notes R.T. Date 7-2-57
No. Date 10-57 Date 10-57 Map No. Date

STATION Inst. At	Sight On	#	B. S. H. I. Rec.	Depth Adj.	P. S. Time	ELEV. Hor. Ang.	
		1	52.0	50.8	10:11	69° 58'	2,480' Cut in Line 102+50
		2	48.6	47.4		69° 36'	2,190'
		3	45.3	44.1		68° 59'	2,040' Zero 0.0
		4	37.2	36.0		68° 30'	1,940' Rock at 1930' Boat +1.0
		5	36.8	35.6		68° 21'	Beginning of Kelp 1,920' Tide -2.2
		6	37.4	36.2		67° 57'	1,850' = -1.2
		7	36.3	35.1		67° 29'	1,760'
		8	35.0	33.8		67° 10'	1,720'
		9	33.3	32.1		66° 42'	1,650'
		10	31.2	30.0		66° 05'	1,565'
		11	29.7	28.5		65° 46'	1,530'
		12	28.7	27.5		65° 28'	D-14 1490' D-13
		13	26.2	25.0		65° 01'	1,440'
		14	24.7	23.5		64° 17'	1,365'
		15	24.2	23.0		63° 49'	1,320'
		16	23.2	22.0		63° 23'	1,285'
		17	22.4	21.2		62° 57'	1,245'
		18	21.9	20.7		62° 55'	1,243'?
		19	21.5	20.3		62° 55'	1,243'?
		20	20.2	19.0		62° 22'	1,200'

D-14

D-13



76298 S & E #307—7-55

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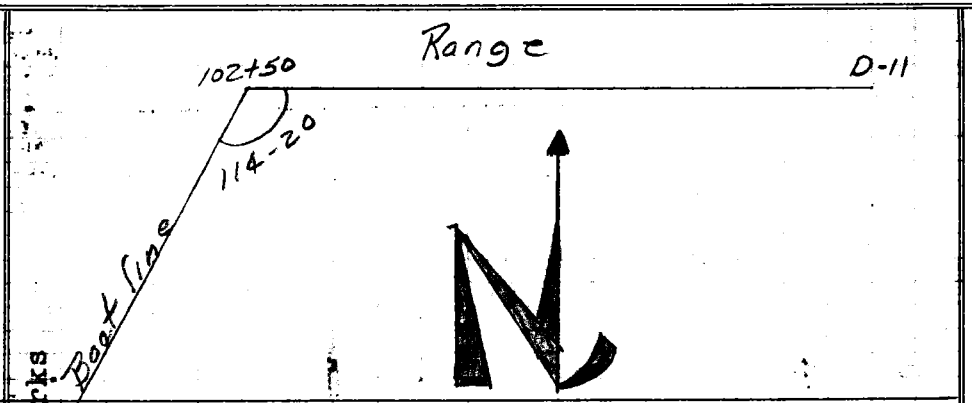
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks.	
		21	19.2	18.0		61° 34'	1,140'	Cut in Line 102+50	
		22	18.2	17.0		60° 46'	1,090'		
		23	17.6	16.4		59° 50'	1,030'		
		24	17.0	15.8		59° 22'	1,005'	Rocks	
		25	16.2	15.0		58° 32'	965'	↓	
		26	15.6	14.4		57° 53'	930'	↓	
		27	15.3	14.1		56° 11'	855'		
D-14	D-13	28	15.3	14.1		54° 53'	805'		
		29	14.7	13.5		53° 31'	752'		
		30	13.8	12.6		51° 43'	695'	Rocks	Zero 0.0
		31	15.4	14.2		49° 55'	645'	↓	Boat +1.0
		32	15.7	14.5		49° 28'	635'		Tide -2.2
		33	15.3	14.1		48° 53'	625'		-1.2
		34	14.7	13.5		47° 44'	595'		
		35	13.2	12.0		46° 56'	577'	Rocks	
		36	9.8	8.6		45° 35'	552'	↓	
		37	10.1	8.9		40° 31'	458'	↓	
		38	10.0	8.8		36° 46'	400'		
		39	9.3	8.1		33° 33'	360'		
		40	7.7	6.5		29° 15'	310'		
		41	4.8	3.6	10:20	27° 58'	295'		

F. B. 2286 Pg. 228 Job No. 007524 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 2075.24	Division No. 10	F. B. 2286 Pg. 229
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-2-57
	Date 10-57	Date 10-57	Map No. ~~Indexed~~ A. G. Johnson		Date



STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
102+50	D-11	1		10:11	114 20	Beginning of Kelp
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	

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F. B. 2286 Pg. 130 | Job No 2352.2 Division No. 10 Notes Red. VCN Plotted VSH
Survey of Small Craft Harbor Date 10-57 No. X-Sec.
Survey by Kaj Jensen Notes W.L.K.S. Notes Chkd. VSH Checked VCN
Indexed L. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks
102+50 D-11	21			112 20	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33			"	
	34			"	
	35			"	
	36			"	
	37			"	
	38			"	
	39			"	
	40			"	
	41		10.20	"	

Notes Ck'd by KRK	Survey of Small Craft Harbor
Map No.	JN 0025.24 Tape Std °F
Office Work JCN	Surveyed by Van Deren
Checked KRK	Notes Van Date 7-3-57
Date 10-57	Indexed [illegible] C. Johnson

F. B. 2286 PG. 231

Tide Gauge Reading at Santa Monica

All Readings are on Daylight Savingtime

7-3-57

Gauge Time				Predicted Tide
7:00 A.M.		0.8	+ 1.0	0.8
7:30 "		0.6	+ 0.8	0.6
8:00 "		0.6	+ 0.8	0.4
8:30 "	Watch Time	0.6	+ 0.8	0.4
9:00 "		0.7	+ 0.9	0.4
9:30 "		1.0	+ 1.2	0.7
10:00 "		1.2	+ 1.4	1.0
10:30 "		1.5	+ 1.7	1.3
11:00 "		2.0	+ 2.2	1.7
11:30 "		2.5	+ 2.7	2.2
12:00 "	12:03	3.0	+ 3.2	3.0
12:30 P.M.			—	
1:00 P.M			—	

Subtract 0.2 from above readings to match tide staff.

[illegible]

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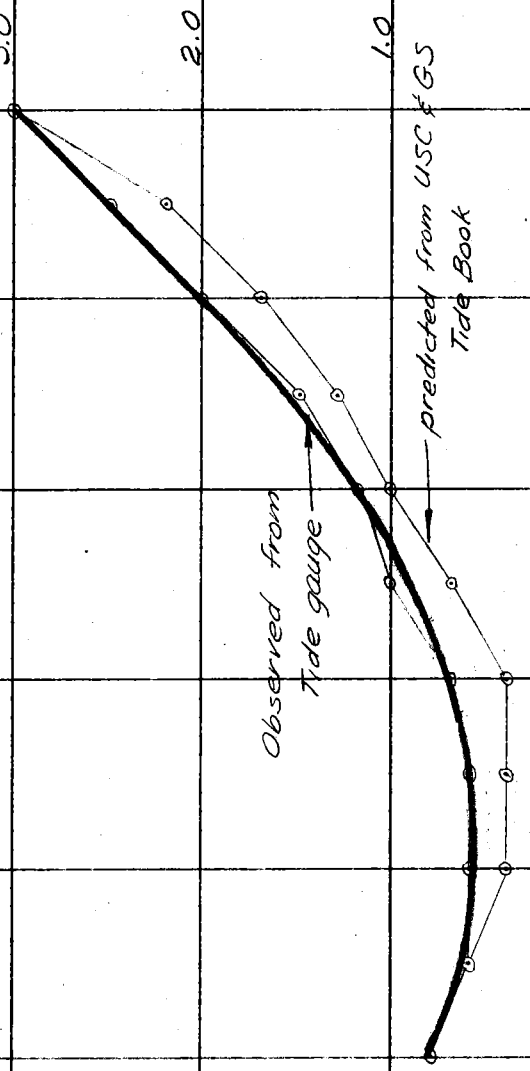
76F3095 S&E #247 1-56

Notes Ck'd by KRK	Survey of Small Craft Harbor
Map No.	JN 0075.24 Tape Std °F
Office Work JCN	Surveyed by
Checked KRK	Notes Date
Date 10-57	Indexed

F. B. 2286 PG. 232

July 3, 1957



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76F309S S&E #247 1-36

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 103+15.04	Sight on 104+49.05
103+15.04	9 45	16 83		12 38	D-12, el = 12376, F.B. 2243-15-44 Inshore	
T.P.	2 20	5 97	13 06	3 77	D-13 = 104+49.05	
104+49.05			08	52	D-13	
12' R.			05	65	Bot. Cliff	
46' L.			40	20		
			54	06	25° 51' 81	Top of Rocks
			56	04	32 45 114	" " "
			73	- 13	42 02 181	
			94	- 34	50 04 277	
			120	- 60	52 54 329	
			130	- 70	53 44 346	
T.P.			3.56	241		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 233
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JCN Checked JSH Survey by EMBLEY & Notes ED Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Inserted Changes Date

76298 S & E #307—7-55

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Profile Notes Red JSH Plotted JCN Job No. 20524 Division No. 12 F. B. 2286 Pg. 235
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JCN Checked JSH Survey by Van Beren Notes RT Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Andrid Johnson Date

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	49.3	48.8	8:01	48° 02'	2,325' Cut Rocks in Line 104+49.05 = D-13
		2	46.4	45.9		47° 29'	2,210'
		3	46.2	45.7		47° 12'	2,150'
		4	43.7	43.2		46° 32'	2,025'
		5	41.5	41.0		45° 57'	1,935'
		6	40.2	39.7		45° 36'	1,880' Beginning of Kelp
		7	37.9	37.4		44° 54'	1,785'
D-16	D-15	8	35.0	34.5		44° 04'	1,675' D-16 D-15 D-14 D-13
		9	32.4	31.9		43° 35'	1,620' Base Line = 104+49.05 = D-13
		10	28.9	28.4		42° 48'	1,535'
		11	26.9	26.4		42° 02'	1,460'
		12	25.7	25.2		41° 26'	1,410'
		13	24.1	23.6		41° 12'	1,380'
		14	22.1	21.6		40° 41'	1,340'
		15	20.1	19.6		40° 18'	1,305'
		16	20.2	19.7		39° 55'	1,280'
		17	18.8	18.3		39° 35'	1,250'
		18	16.8	16.3		38° 50'	1,195'
		19	15.8	15.3		38° 02'	1,145'
		20	15.8	15.3		37° 01'	1,080' Rocks

Zero -0.9
Boat +1.0
Tide -0.6
-0.5

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
		21	11.8'	11.3		36° 26'	1,050' Rocks Cut in Line	104+49.05 = D-13
		22	16.0'	15.5		35° 10'	980'	
		23	15.0'	14.5		34° 11'	935'	
		24	14.1'	13.6		33° 34'	905'	
		25	14.8'	14.3		33° 10'	885'	
		26	14.6'	14.1		32° 22'	850'	
		27	14.1'	13.6		31° 41'	825'	
		28	13.4'	12.9		31° 10'	805'	
D-16	D-15	29	13.4'	12.9		30° 04'	765'	
		30	13.3'	12.8		28° 20'	705'	Zero -0.9
		31	13.0'	12.5		26° 51'	660'	Boat +1.0
		32	12.9'	12.4		25° 32'	620'	Tide -0.6
		33	12.2	11.7		23° 26'	565'	-0.5
		34	11.2'	10.7		21° 33'	520'	
		35	10.8'	10.3		19° 28'	470' Rock at 495' at	7.2'
		36	10.7'	10.2		18° 11'	445'	
		37	9.3'	8.8		16° 07'	405'	
		38	9.1	8.6	8:09	14° 01'	372'	
		39						
		40						

F. B. 2286 Pg. 236 Job No. 0026.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH.	Plotted JCN	Job No. 0025.24	Division No. 10	F. B. 2286 Pg. 237
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-2-57
	Date 10-57	Date 10-57	Map No. ~~Indexed~~ Johnson		Date

104+49.05 Range D-12

108-07

Boat Line

begining of kelp

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
104+49.05 D-12	1		8 0	108 07	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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STATION		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
104+49.05	D-12	21			108 07		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38		8 0[illegible]	"		

F. B. 2286 Pg. 238 Job No. 2025.26 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-2-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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Profile Notes Red. VSH Plotted VCN Job No. 007524 Division No. 10 F. B. 2286 Pg. 23
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBOR
X-Sec. Notes Chkd. VCN Checked VSH Survey by ENGINEER Notes ED Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Engineer Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 104+44.25	Sight on 106+11.21
T.P. -	3 61	6 02		2 41		Inshore
106+11.21			+49	10 9	Top of Rocks D-14 =	106+11.21
5 L.			10	50	Bott. of Rocks	
42 L.			38	22		
			57	03	27° 57' 93	
			93	- 33	43 34 179	
			123	- 63	52 07 254	
			143	- 83	56 08 305	
			155	- 95	61 14 393	
T.P	7 19	10 02	3 19	2 83		
107+42.28	1 52	9 96	1 58	8 44	D-15, El. = 8.441,	F.B. 2243 - 44
T.P.		38	7 19	2 77		

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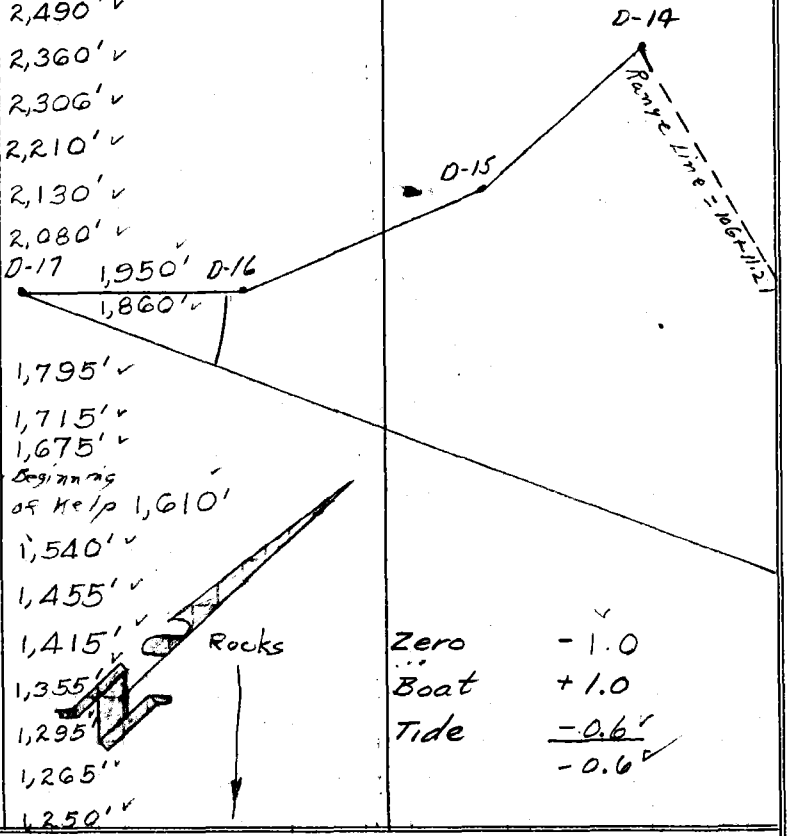
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-17	D-16	1	48.5	47.9	8:22	43° 10'	2,605' Cut in Line
		2	48.0	47.4		42° 44'	2,490'
		3	48.5	47.9		42° 16'	2,360'
		4	46.8	46.2		42° 00'	2,306'
		5	45.6	45.0		41° 36	2,210'
		6	43.9	43.3		41° 12'	2,130'
		7	43.0	42.4		40° 54'	2,080'
		8	41.7	41.1		40° 11'	D-17 1,950' D-16 1,860'
		9	39.9	39.3		39° 40'	
		10	38.3	37.7		39° 10'	1,795'
		11	35.6	35.0		38° 41'	1,715'
		12	33.0	32.4		38° 19'	1,675'
		13	32.3	31.7		37° 49	Beginning of Kelp 1,610'
		14	30.9	30.3		37° 13'	1,540'
		15	28.7	28.1		36° 26	1,455'
		16	26.1	25.5		36° 00	1,415' Rocks
		17	22.9	22.3		35° 25	1,355'
		18	22.4	21.8		34° 41'	1,295'
		19	21.4	20.8		34° 22'	1,265'
		20	20.1	19.5		34° 08	1,250'

106+11.21 = D-14



Zero	-1.0
Boat	+1.0
Tide	-0.6
	-0.6

Profile Notes Red. JSH Plotted JCN Job No. 007524 Division No. 10 F. B. 2286 Pg. 241
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by VanDeren Notes RT Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Date

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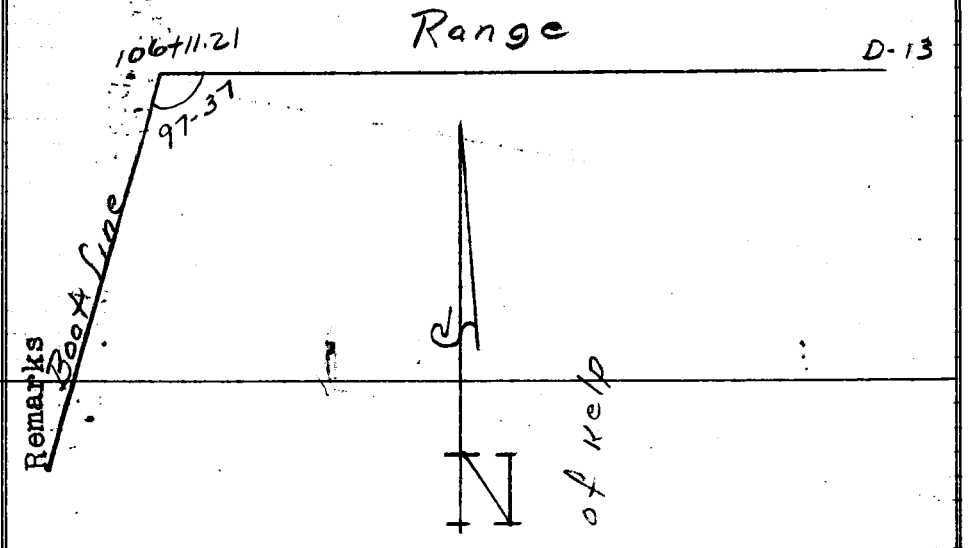
F. B. 2286 Pg. 242 Job No 02524 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes FLT Notes Chkd. JCN Checked JSH
Indexed by C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	18.6'	18.0		33° 29'	1,205'	Cut in Line 106+11.21 = 0.14 (Rocks)
		22	16.9'	16.3		32° 47'	1,145'	
		23	16.2'	15.6		32° 07'	1,100'	
		24	15.7'	15.1		31° 15'	1,045'	
		25	15.8'	15.2		29° 54'	970'	
		26	15.9'	15.3		28° 40'	905'	
		27	16.5'	15.9		27° 25'	840'	
		28	16.6'	16.0		26° 13'	790'	
		29	15.9'	15.3		24° 52'	735'	
D-17	D-16	30	13.7'	13.1		23° 03'	670'	Rocks
		31	12.0'	11.4		22° 42'	660'	
		32	15.2'	14.6		21° 02'	605'	
		33	14.9'	14.3		19° 41'	565'	
		34	13.5'	12.9		17° 50'	512'	Rock at 491 at 9.9'
		35	12.7'	12.1		15° 57'	470'	
		36	12.1'	11.5		14° 33'	435'	
		37	10.7'	10.1	8:30	13° 09	405'	
		38						
		39						
		40						

Zero -1.0
Boat +1.0
Tide -0.6
-0.6

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2286 Pg. 243
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-3-57
	Date 10-57	Date 10-57	Map No. [redacted]	Indexed Johnson	Date



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
106+11.21 D-13	1		8 22	97 37	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
106+11.21	D-13	21			97 37		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37		8 30	"		

F. B. 2286 Pg. 244 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Ken Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

PLEASE RETURN TO
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STATION	S. S.	H. I.	F. S.	ELEV.	Inst at. 106+11.21	Sight on 107+42.28
T.P.	3 61	6 38		2 77		Inshore
107+42.28			+20	8 4	Top Rock	D-15 = 107+42.28
9 R.			+10	7 4	Bot. Cliff	
48 L.			40	2 4		
			68	-0 4	35° 40' 121'	
			118	-5 4	47° 40' 215'	
			145	-8 1	50° 48' 254'	
			151	-8 7	54° 02' 304'	
			169	-10 5	57° 55' 389'	
T.P.			3 90	2 48		

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 245
No. Date 10-57 Date 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked JCN Survey by ENGLISH Notes FD Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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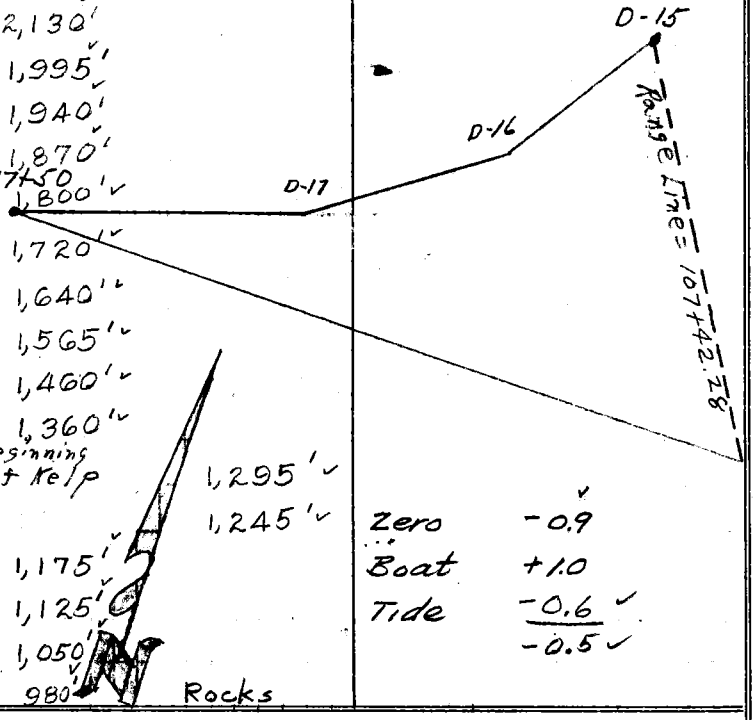
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
117+50	D-17	1	48.8	48.3	8:42	24° 27'	2,510' Cut in Line = 107+42.28 = D-15
		2	47.5	47.0		24° 09'	2,440'
		3	46.6	46.1		23° 42	2,340'
		4	45.2	44.7		23° 10'	2,230'
		5	43.6	43.1		22° 40	2,130'
		6	41.7	41.2		21° 59'	1,995'
		7	40.5	40.0		21° 36'	1,940'
		8	39.2	38.7		21° 09'	1,870'
		9	37.4	36.9		20° 40'	117+50 1,800'
		10	35.5	35.0		20° 06	1,720'
		11	32.8	32.3		19° 30'	1,640'
		12	30.6	30.1		18° 57	1,565'
		13	28.8	28.3		18° 02'	1,460'
		14	25.9	25.4		17° 09'	1,360'
		15	24.1	23.6		16° 30'	Beginning of Kelp 1,295'
		16	22.4	21.9		15° 57'	1,245'
		17	20.6	20.1		15° 09'	1,175'
		18	20.0	19.5		14° 33	1,125'
		19	18.3	17.8		13° 40'	1,050'
		20	17.7	17.2		12° 40'	980' Rocks



Zero	-0.9
Boat	+1.0
Tide	-0.6
	-0.5

Profile Notes Red. JCN Plotted JSH Job No. 007628 Division No. 10 F. B. 2286 Pg. 247
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes RT Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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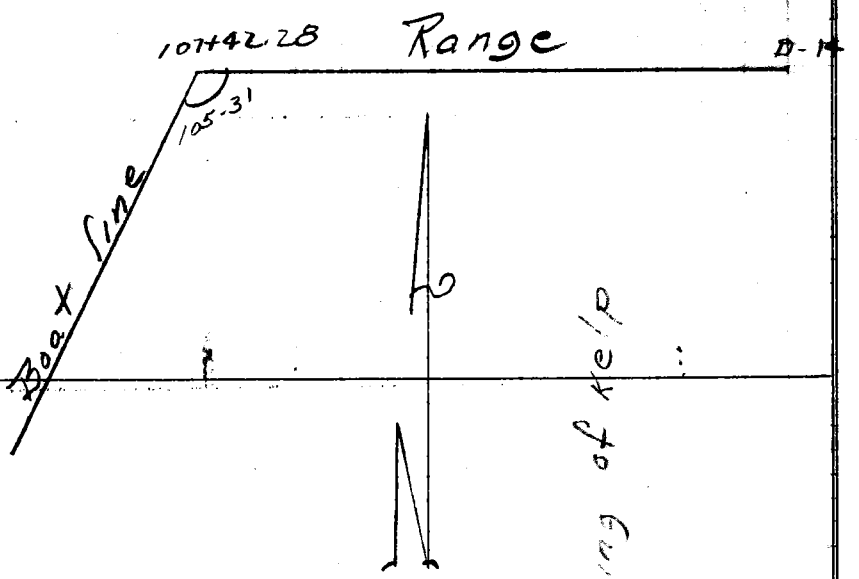
F. B. 2286 Pg. 148 Job No. 21524 Division No. 10 Notes Red. VCN Plotted VSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes RT Notes Chkd. VSH Checked VCN
Indexed K. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	21	17.2 / 16.7		11° 41'	910'	Cut in Line 107+42.28=0-15
	22	16.7 / 16.2		10° 27'	835'	
	23	16.3 / 15.8		09° 41'	790'	
	24	16.2 / 15.7		08° 36'	725'	
	25	16.3 / 15.8		07° 41'	675'	
	26	15.3 / 14.8		06° 35'	620'	
	27	13.6 / 13.1		05° 18'	560'	
	28	13.5 / 13.0		04° 16'	515'	
	29	12.4 / 11.9		03° 18'	475'	
117+50 / 0-17	30	11.0 / 10.5		02° 09'	430'	Zero -0.9
	31	10.3 / 9.8	8:48	01° 14'	395'	Boat +1.0
	32					Tide -0.6
	33					-0.5
	34					
	35					
	36					
	37					
	38					
	39					
	40					

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 007524	Division No. 10	F. B. 2286 Pg. 249
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-3-57
	Date 10-57	Date 10-57	Map No. [redacted]		Date



STATION Inst. Sight At On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
107+42.28 D-14	1		8 42	105 31	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76298 S & E #307—7-55

F. B. 2286 Pg. 250 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile

Survey of Small Craft Harbor Date 10-57 Date 10-57 No.

Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.

Indexed K. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
10742.28 D-14	21			105 31		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31		8 48	"		
	"					

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Left at 107+42.28	Right at 109+65.86
T.P.	3.61	6.09		2.48		Inshore
109+65.86			+1.3	7.4		=108+65.86
9 R			+2.7	3.8	Both Sides	
26 L			2.7	3.4	Sand	
			5.0	1.1	27°36' 61'	Bay Leaves
			7.0	-0.9	51 48 135'	
			9.4	-3.3	65 55 215'	
			10.1	-4.0	71 00 261'	
			9.8	-3.7	74 33 304'	
			11.5	-5.4	76 50 338'	
			11.4	-5.3	82 48 480'	
			13.2	-7.5	83 19 498'	
T.P.	4.83	6.89	4.03	2.06		
D-16			0.23	6.66	D-16 = El = 6.696, F.B. 2243-44	

Profile Notes Red. JCW Plotted JSH Job No. 007524 Division No. 10 F. B. 2286 Pg. 251
No. Date. 10-57 Date. 10-57 Survey of SMALL CRAFT HARBORS
X-Sec. Notes Chkd. JSH Checked JCW Survey by EASTLICK Notes ED Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Inspected Changes Date

76298 S & E #307—7-55

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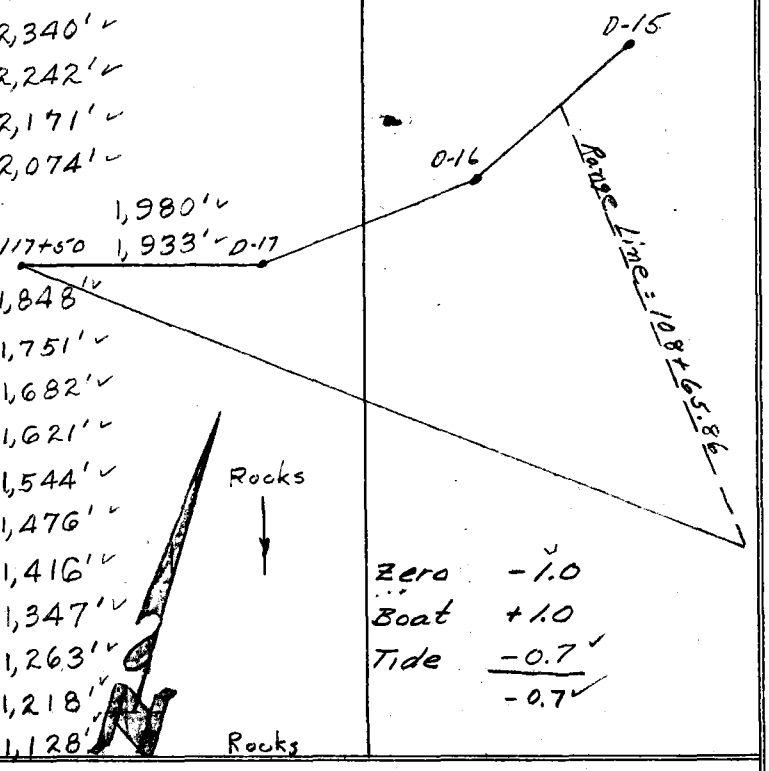
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.	Remarks
117+50	D-17	1	50.4	49.7	8:59	33°	04'	2,675' Cut in Line 108+65.86
		2	48.6	47.9		32°	23'	2,500'
		3	47.6	46.9		31°	56'	2,402'
		4	46.6	45.9		31°	38'	2,340'
		5	45.3	44.6		31°	08'	2,242'
		6	43.6	42.9		30°	46'	2,171'
		7	42.0	41.3		30°	16'	2,074'
		8	40.1	39.4		29°	43'	1,980'
		9	38.5	37.8		29°	25'	117+50 1,933' D-17
		10	36.4	35.7		28°	51'	1,848'
		11	34.8	34.1		28°	10	1,751'
		12	33.1	32.4		27°	40'	1,682'
		13	32.0	31.3		27°	12'	1,621'
		14	27.3	26.6		26°	33'	1,544'
		15	25.4	24.7		25°	54'	1,476'
		16	24.4	23.7		25°	22'	1,416'
		17	22.4	21.7		24°	39'	1,347'
		18	20.0	19.3		23°	48'	1,263'
		19	18.6	17.9		23°	15'	1,218'
		20	17.2	16.5		22°	08'	1,128'



Zero -1.0
Boat +1.0
Tide -0.7
-0.7

Profile Notes Red. JCN Plotted JSH Job No. 0076.24 Division No. 10 F. B. 2286 Pg. 253
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes P.T. Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	9.9	9.2		21° 27'	Beginning of Kelp 1,073'	Rocks
		22	7.3	6.6		20° 52'	1,034'	Cut in Line 108+65.86
		23	7.1	6.4		20° 33'	1,014'	Rocks
		24	8.3	7.6		19° 32'	946'	
		25	12.7	12.0		18° 48'	902'	
		26	11.0	10.3		18° 38'	893'	
		27	8.5	7.8		17° 55'	850'	
		28	10.9	10.2	9:05	17° 19'	774'	
		29						Zero -1.0
		30						Boat +1.0
								Tide -0.7
								-0.7

117+50

D-17

F. B. 2286 Pg. 254 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile No.
Survey of Small Craft Harbor Date 10-57 Date 10-57 X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN
Indexed K. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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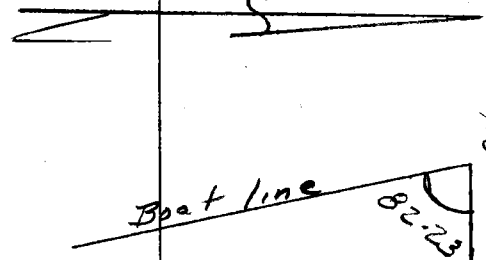
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.
10+65.86	D-15	1			8 59	82 23
		2				"
		3				"
		4				"
		5				"
		6				"
		7				"
		8				"
		9				"
		10				"
		11				"
		12				"
		13				"
		14				"
		15				"
		16				"
		17				"
		18				"
		19				"
		20				"



Profile Notes Red. VCN Plotted VSH Job No. 2075.24 Division No. 10 F. B. 2286 Pg. 255
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VSH Checked VCN Survey by Van Dyke & Watkins Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
108+65.86	D-15	21			8223	beguining of KC Cp	
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28		9 05	8340	Note: ∡ Changed	

F. B. 2286 Pg. 256 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN
Indexed [illegible] C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 108+65.86	Sight on 109+89.44
D-16	031	7 01		670		Inshore
109+89.44			03	67	D-16	D-16 = 109+89.44
22 R.			+27	97	Bolt Cliff	
24 L.			32	38		
			50	20	19° 56' 45	
			70	00	47 39 136	
			103	-33	57 30 194	
			113	-43	62 30 237	
			113	-43	62 40 239	
			129	-59	67 05 292	
			148	-78	70 32 350	
			164	-94	72 11 385	
T.P.			381	320		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 257
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Lind Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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Profile Notes Red. VSH Plotted VCN Job No. 10,529 Division No. 10 F. B. 2286 Pg. 259
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VSH Survey by Hamilton & Jensen Notes KJ Date 7-1-57
No. Date 10-57 Date 10-57 Map No. Date

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Rec.	Adj.	Time	Hor. Ang.		Remarks
		1	52.5	51.6	9:20	40° 44'	2,492'	Cut in Line 109+89.44 = 0-16
		2	50.5	49.6		40° 12'	2,381'	
		3	48.7	47.8		39° 56'	2,313'	
		4	46.4	45.5		39° 28'	2,223'	
		5	44.8	43.9		38° 57'	2,128'	
		6	42.5	41.6		38° 47'	2,080'	
		7	40.3	39.4		37° 55'	1,946'	
		8	38.3	37.4		37° 10'	1,831'	
		9	36.2	35.3		36° 43'	1,761'	
		10	34.5	33.6		36° 16'	1,704'	
		11	32.9	32.0		35° 32'	1,609'	
		12	31.3	30.4		35° 09'	1,558'	
		13	30.2	29.3		34° 17'	1,471'	
		14	29.2	28.3		33° 38'	1,406'	
		15	27.8	26.9		33° 00'	1,344'	
		16	26.6	25.7		32° 14'	1,273'	
		17	25.0	24.1		31° 26'	1,204'	
		18	22.9	22.0		30° 44'	1,152'	
		19	21.2	20.3		29° 44'	1,078'	
		20	20.4	19.5		28° 29'	994'	

1+17+50

0-17

0-16

Range Line = 109+89.44

Rocks

Zero -1.0
Boat +1.0
Tide -0.9
-0.9

76298 S & E #307—7-55

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Do not extend notes this side of this line.

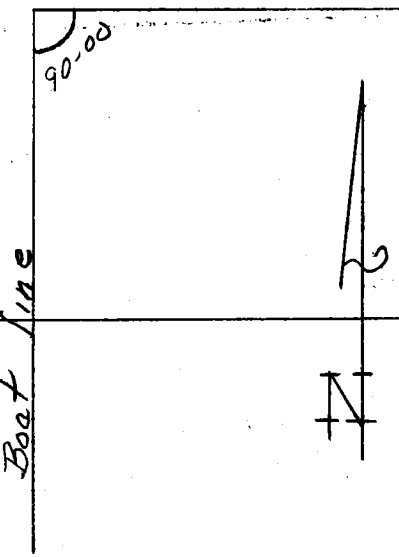
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
							922'	Rocks
		21	18.4	17.5		27° 18	Cut in line =	109 + 89.44 = D-16
		22	16.1	15.2		26° 12'	Beginning of Kelp 862'	Rocks
		23	15.0	14.1		25° 00'	800'	
		24	15.0	14.1		23° 44	739'	
		25	14.8	13.9		22° 37'	690'	
		26	14.7	13.8		21° 44'	655'	
		27	14.0	13.1		21° 22'	636'	
		28	13.2	12.3		20° 33'	606'	
		29	12.1	11.2		19° 53'	580'	
117+50	D-17	30	11.2	10.3	9:25	19° 31'	567'	Zero -1.0
								Boat +1.0
								Tide -0.9
								-0.9

F. B. 2286 Pg. 260 Job No. 0075.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0025.24	Division No. 10	F. B. 2286 Pg. 261
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-3-57
	Date 10-57	Date 10-57	Map No.	Indexed C. Johnson	Date

109+89.44 Range

D-15



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On D-16 D-15 109+89.44	# Rec. Adj. Depth		Time Hor. Ang. 9:20	90°00'	
	1			"	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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

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

Do not extend notes this side of this line.

76298 S & E #307—7-55

76298 S & E #307—7-55

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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Do not extend notes this side of this line.

F. B. 2286 Pg. 162 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Kaldveer Notes D. Wilks Notes Cald. JCN Checked JSH
Indexed K. C. Johnson Date 7-3-57 Date 12-57 Date 12-57 No. Profile

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
D-16	D-15	21				90°00		
		22				"		
		23				"	Beginning of Kelp	
		24				"		
		25				"		
		26				"		
		27				"		
		28				"		
		29				"		
		30			9.25	"		

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION	S. S.	H. I.	F. S.	ELEV.	Lost at 115+00		Sight on 112+50
T.P.	3 17	6 37		3 20			Inshore
112+50			+40	10 4			112+50
4° R			+50	11 4	Bott Gl. PA		
36 L.			10	5 4	Sand		
			40	~~2 4~~ 2.4	10° 59'	71'	
			61	0 3	17 40	130'	
			75	-1 1	21 00	168'	
			86	-2 2	24 17	212'	
			100	-3 6	25 42	234'	
			116	-5 2	29 18	301'	
			122	-5 8	30 23	325'	
			119	-5 5	32 18	373'	
			128	-6 4	33 20	403'	
			139	-7 5	34 07	428'	
			134	-7 0	36 06	499'	
			150	-8 6	36 53	532'	
T.P.			208	4 29			

Profile Notes Red JSH Plotted JCN Job No. 0075.14 Division No. 10 F. B. 2286 Pg. 263
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd JCN Checked JSH Survey by Engleh Notes Lind Date 7-3-57
No. Date 10-57 Date 10-57 Map No. ~~X-Sec.~~ Johnson Date

76298 S & E #307—7-55

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

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
117+50	D-17	1	47.1	46.0	9:45	41° 06'	2,339' Cut in Line 112+50
		2	44.8	43.7		40° 31'	2,212'
		3	42.5	41.4		39° 54'	2,084'
		4	41.4	40.3		39° 27'	120+00 1,997' D-17
		5	40.2	39.1		39° 15'	1958'
		6	38.4	37.3		38° 54'	1,900'
		7	37.1	36.0		38° 28'	1,821'
		8	35.8	34.7		37° 52'	1,733'
		9	33.9	32.8		37° 11'	1,636'
		10	32.0	30.9		36° 33'	1,551'
		11	30.8	29.7		35° 52'	1,468'
		12	29.8	28.7		35° 27	Beginning of Kelp 1,421'
		13	28.4	27.3		34° 51'	1,358' Rocks
		14	27.4	26.3		34° 26'	1,308'
		15	26.2	25.1		34° 02'	1,273'
		16	24.3	23.2		33° 03'	1,184'
		17	23.0	21.9		32° 13'	1,112'
		18	22.2	21.1		31° 45'	1,072'
		19	21.3	20.2		30° 51'	1,008'
		20	20.2	19.1		30° 37'	988'

Range Line = 112+50

Zero -1.0
Boat +1.0
Tide -1.1
-1.1

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 265
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks		
							950'		
		21	18.9	17.8		30° 00'	Cut in Line 112+50		
		22	19.0	17.9		29° 29'	915'		
		23	20.2	19.1		29° 03'	888'		
		24	19.7	18.6		28° 25'	848'		
		25	19.2	18.1		27° 28'	793'		
		26	18.0	16.9		26° 40'	750'	Rocks	
		27	16.3	15.2		26° 17'	731'		
		28	15.0	13.9		24° 55'	665'		
120+00	D-17	29	13.7	12.6		23° 54'	618'		
		30	12.0	10.9		23° 37'	606'		Zero -1.0
		31	10.7	9.6		22° 28'	558'		Boat +1.0
		32	10.0	8.9		21° 56'	538'		Tide -1.1
		33	7.8	6.7	9:52	20° 55'	498'	Rock at 4.6'	-1.1

F. B. 2286 Pg. 266 Job No. 2025.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed E. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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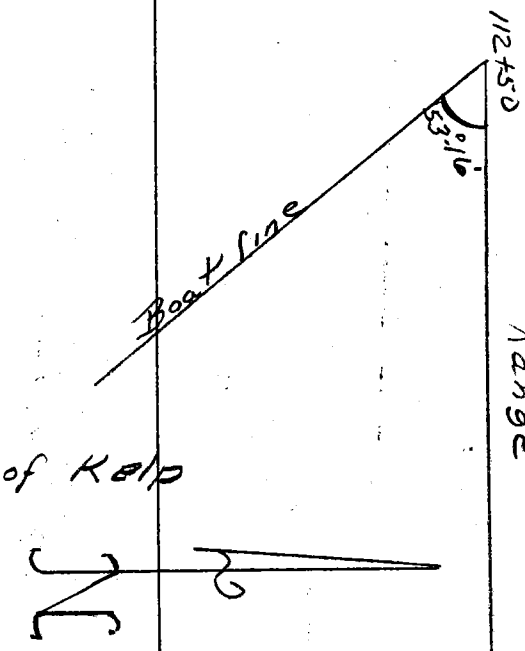
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
112+50	D-17	1		9:45	53° 16		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"	Begining of Kelp	
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 267
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Ian Deren Notes Wilks Date 7-3-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
112+50	D-17	21			53° 16		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33		9:52	"		

F. B. 2286 Pg. 268
Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes D. Wilks Notes Chkd. JSH Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-3-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 117+50		Sight on 115+00
T.P.	3 72	8 01		4 29			Inshore
115+00			+75	15 5	Brk.		115+00
35 R			+75	15 5	Bot. Cliff		
42 L.			00	8 0			
72 L.			39	4 1			
			59	2 1	14°22'	99'	
			8 3	-0 3	22 07	182'	
			10 6	-2 6	26 20	245'	
			10 3	-2 3	27 56	273'	
			12 5	-4 5	29 31	306'	
			13 0	-5 0	30 51	337'	
			15 2	-7 2	33 05	396'	
			15 5	-7 5	33 56	421	
T.P.	11 45	18 45	1 01	7 00			
121+58 12			4 44	14 01	D-18, el.= 13.991		, F.B. 2243-~~24~~ 45

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 269
No. Date 10-57 Date 10-57 Survey of Small Crept Harbors
X-Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Lind Date 7-3-57
No. Date 10-57 Date 10-57 Map No. ~~X Index~~ Date

76298 S & E #307—7-55

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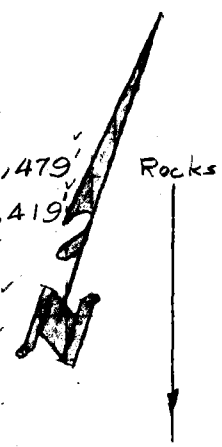
700 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
120+00	0-17	1	52.3	51.0	10:04	46° 05'	2,882' Cut in Line 115+00
		2	48.8	47.5		45° 21'	2,597'
		3	46.5	45.2		44° 57'	120+00 2,443' 0-17
		4	45.3	44.0		44° 42'	2,369'
		5	43.8	42.5		44° 17'	2,237'
		6	42.3	41.0		43° 59'	2,157'
		7	40.0	38.7		43° 32'	2,040'
		8	38.3	37.0		43° 07'	1,938'
		9	36.5	35.2		42° 52'	1,888'
		10	35.1	33.8		42° 25'	1,793'
		11	33.1	31.8		41° 47'	1,674'
		12	31.5	30.2		41° 16'	1,589'
		13	29.8	28.5		40° 34'	Beginning of Kelp 1,479'
		14	28.8	27.5		40° 09'	1,419'
		15	26.7	25.4		39° 30'	1,336'
		16	26.1	24.8		39° 13'	1,299'
		17	25.5	24.2		38° 53'	1,263'
		18	24.8	23.5		38° 19'	1,198'
		19	24.5	23.2		38° 05'	1,176'
		20	24.0	22.7		37° 47'	1,144'



Range Line = 115+00

Zero	-1.0
Boat	+1.0
Tide	-1.3
	-1.3

Profile Notes Red. JSH Plotted JCN Job No. 0076.29 Division No. 10 F. B. 2286 Pg. 271
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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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. 2286 Pg. 172 Job No. 05-29 Division No. 10 Notes Red. JSH Plotted VCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. Profile
Survey by Van Deven Notes Ext. Notes Chkd. VCN Checked JSH X-Sec.
Indexed [illegible] Date 2-3-57 Date 10-57 Date 10-57 No.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. B. Time	ELEV. Hor. Ang.		Remarks	
		21	23.2	21.9		37° 30'	1,119'	Cut in Line	115+00
		22	22.8	21.5		37° 02'	1,074'		
		23	22.2	20.9		36° 31'	1,041'		
		24	21.1	19.8		36° 11'	1,004'		
		25	19.6	18.3		35° 32'	953'		
		26	18.4	17.1		34° 59'	914'		
		27	16.5	15.2		34° 08'	854'		
		28	14.8	13.5		33° 39'	819'		
120+00	D-17	29	14.2	12.9		32° 56'	782'	Zero	-1.0'
		30	14.1	12.8		32° 22'	749'	Rocks Boat	+1.0
		31	14.5	13.2		31° 36'	708'	Tide	-1.3'
		32	13.6	12.3		31° 12'	689'		-1.3
		33	11.3	10.0		30° 00'	632'		
		34	10.3	9.0	10:12	28° 30'	569'		

76298 S & E #307—7-55

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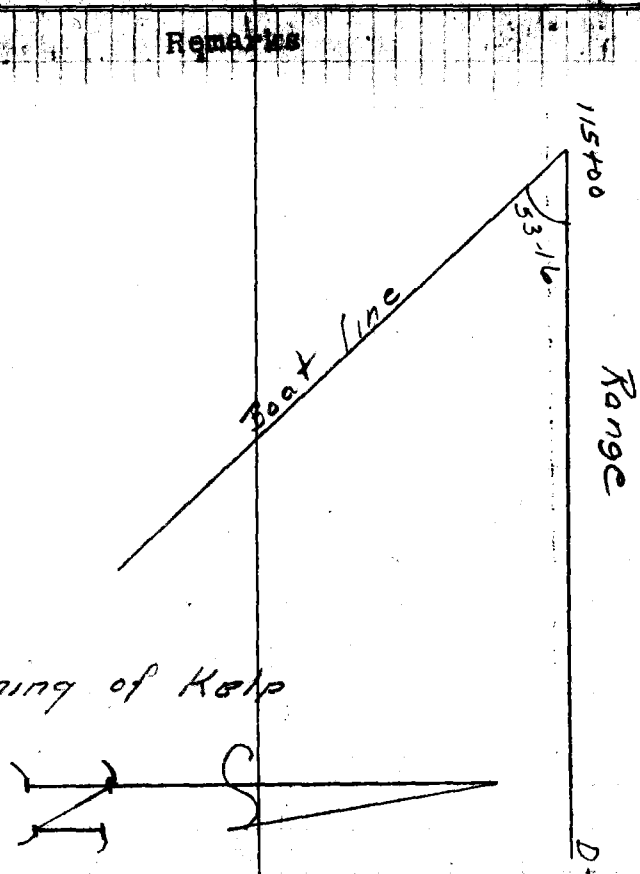
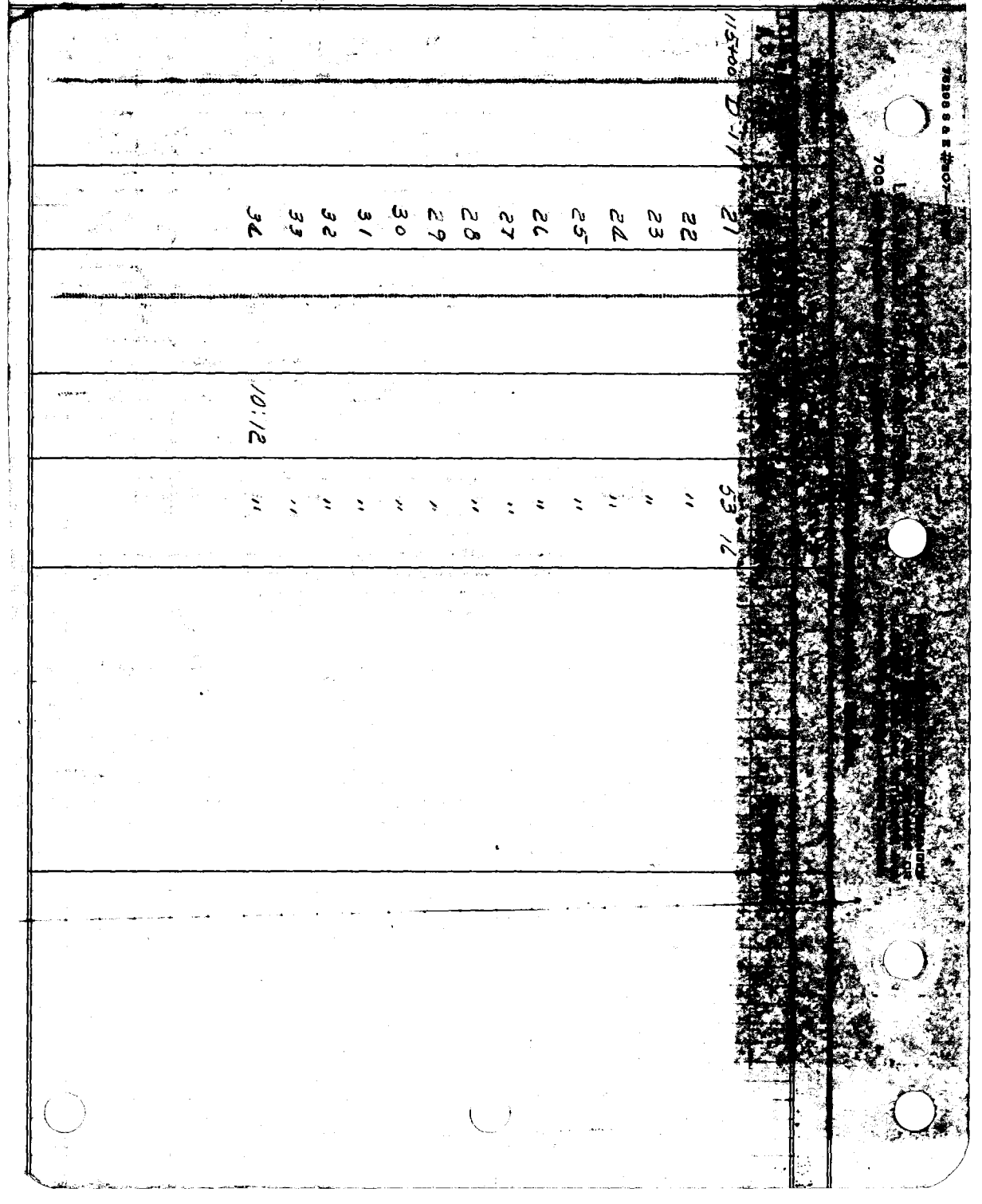
Profile Notes Rod. USH Plotted USH Job No. 0075.24 Division No. 10 F. B. 2286 Pg. 23
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. DCM Checked DCM Survey by Van Deren Notes Wilks Date 7-3-57
No. Date 10-57 Date 10-57 Map No. Revised Changes Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Rec. / Depth Adj.	Time	Hor. Ang.	Remarks
115+00 D-17	1		10:02	53° 16'	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	Begining of Kelp
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	



F. B. 2286 Pg. 179 | Job No. 0075.24 | Division No. 10 | Notes Red. JSH | Plotted JSH | Profile

Survey of Sand Point Harbor | Date 10-57 | Date 10-57 | No.

Survey by Van Deren | Notes D. Wilks | Notes Chkd. JCN | Checked JCN

Indexed C. Johnson | Date 7-3-57 | Date 10-57 | Date 10-57