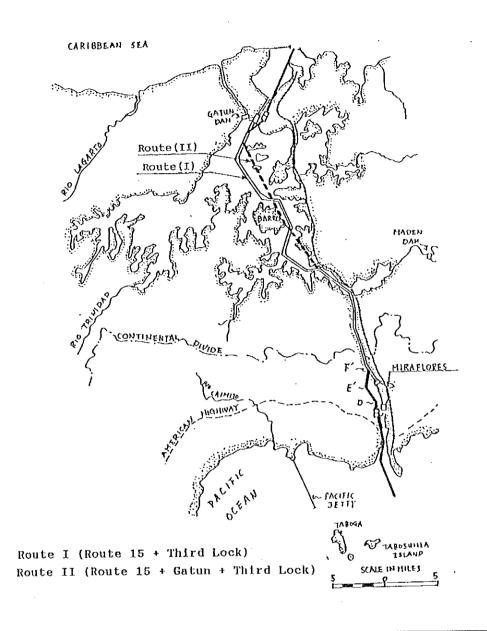
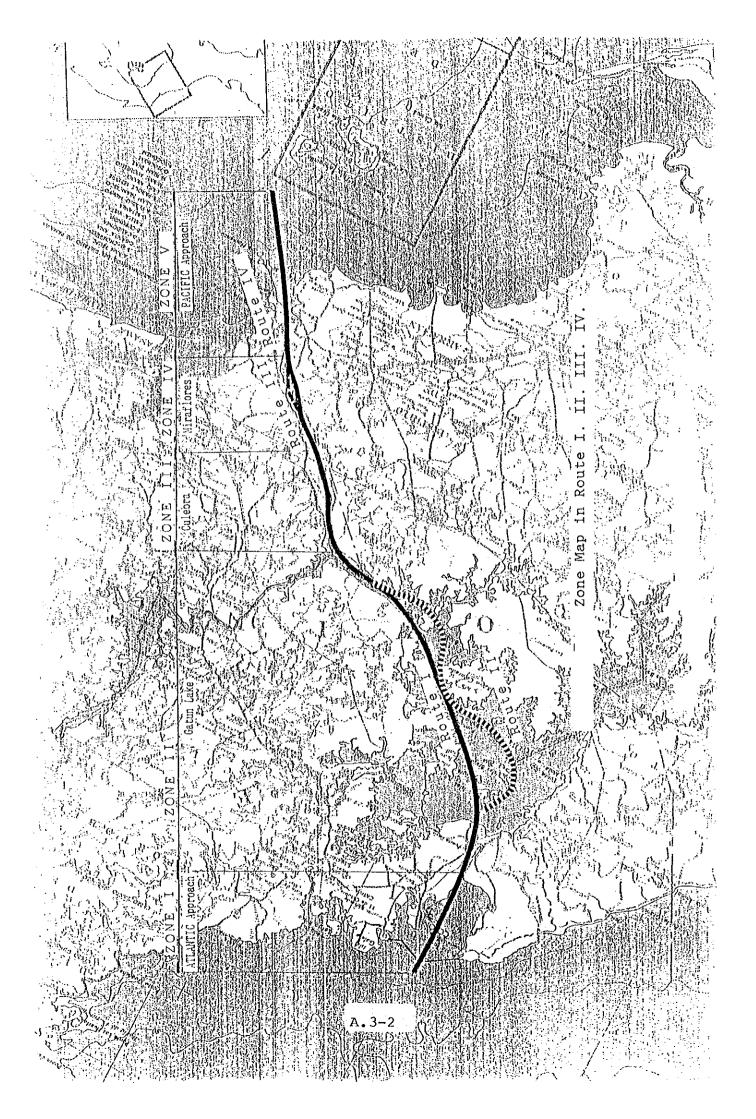


APPENDIX 3: CALCULATION TABLES OF EXCAVATION VOLUME



Study Case	Route	W. Level	No. of Lifts	No. of Lanes	Ship Size (1000 DWT)	Canal Size (m)
L-1 2 4 5 7	I I I I	90' 85' 90' 85' 90'	2 2 2 2 2	2 2 2 2 2 2	100 100 150 150 250 250	301 x 18.7 301 x 18.7 343 x 20.9 343 x 20.9 399 x 24.2 399 x 24.2
8 2' 10 13 16	I II II	85' 85' 85' 85' 85'	2 1 2 2 2	2 2 2 2 2	100 100 150 250	301 x 18.7 301 x 18.7 343 x 20.9 399 x 24.2

Layout of High Rise Lock System for Group A Study Cases A.3-1



FI. 11				J _L			401011			Soft F	łock		r		\$011	· · · · · · · · · · · · · · · · · · ·		Kadi	
Station (STA)	(ft)	Dis (s)	A 0	Yo	Hard R Fet At		Dry V2	Ao .	Yo	el il	Wet VI	Dry Y2	NO.	Vo	icl At	Wet VI	Dry V2	ho	Yo
10.80 -3.00		7, 800 4, 000	0	940,000	0	910, 000	0	1, 630	6, 250, 000	1, 630	4,020,000	2, 240, 000	- <u>0</u> 580	2, 652, 000 2, 840, 500	0	2, 652, 000 2, 840, 000	0	088	2, 6\$2, 000 2, 880, 000
1.00		4, UUU 0	470	910,000	470	310,000	0	1,500	0	380	Ó	Ö	740	0	740	0	Ō	750	0
Sun, 1		11, 800		940,000		940,000	0		12, 617, 000		10, 377, 000	2, 240, 000		5, 492, 600		5, 492, 000	9		2, 880, 000
											<u> </u>								
1, <u>00</u> 1, <u>05</u>		50	470	93, 750	470	35,500	58, 250	1,500	120, 750	380	22, 500	\$8, 250	1,500	69, 500	0	0	59,500 1,472,000	<u>0</u>	<u>0</u>
1. 05 2. 20		1, 150 10	3, 280 3, 280	3, 772, 000	950	1, 092, 500 9, 500	2, 679, 500 23, 300	3, 330 3, 330	3, 829, 500 33, 300	520 520	598,000 5,200	3, 231, 500 28, 100	1,280	17, 800	 	0	17, 800	Ö	
2. 21		190	3, 280	523, 200	950	180, 500	442, 700	3, 330	632, 700	520	38, 800	533, 900	2, 280	433, 200	Ō	0	433, 200	0	Q
2. 40		10	3, 280	32, 800	950	9, 500	23, 300	3, 330	33, 300	520	5, 200 306, 800	28, 100 1, 657, 900	2, 280 1, 280	17, 800 755, 200	0	00	17, 800 755, 200	0	0
2. 41 3. 00		590 2,000	3, 280 3, 280	1, 935, 200 6, 940, 000	950 950	560, 500 950, 000	1, 374, 700 5, 990, 000		1, 964, 700 26, 725, 000	520 520		26, 205, 000	1, 260		 	<u>v</u>		Č	ŏ
5.00		300	3, 660	1, 098, 000	Ö	0	1, 098, 000	23, 395	7, 018, 500	0	0	7, 018, 500	1,260	528,000	0	0	528,000	0	
5.30		200	3, 660	366,000	<u>ŏ</u>	0	366,000	23, 395	2, 33 <u>9, 500</u>	0	0	2, 339, 500	2,250	225,000	0	0	226,000	- 0	- 0
5, 50 7, 00		1,500 3,000		0	0	Ö	0	Ö	0	Ŏ	Ü	ŏ	Õ	Ď	Ö	Ō	Ū	G.	Ō
10.00		6,000		3, 210, 000	0		0	0	\$00,000	0		0	, o	0	0	, o	0	- 0	0
16.00		4,000 5,000	1,070 310	2, 760, 000 2, 350, 000		2, 760, 000 2, 350, 000	0	300 310	1, 220, 000	300 310		0	0	0	0	0	0	0	0
20.00 25.00		5,000	630	1, 575, 000		1, 575, 000	Ö	310	775,000	310	775,000	0	Ç	\$50,000	0	650,000	Q	Û	0
30.00		6,000		0	0	0 000	0	0 1, 010	3, 030, 000 1, \$65, 000	1 010		0	250 300	900,000	300	900,000	0	0	0
36.00 39.00		3, 000 4, 120	440	660,000 4,202,400	440	906, 400	3, 295, 000		15, 450, 000	300		12, 195, 200	300	818,000	300	\$18,000	0		0
	1,684	0	1,500	0	Ő	0	0	7, 200	. 0	1,280	0	0	0	0 001 500	0	0	0 000 000	0	0
Suar S		12, 120		29, 651, 150		14, 299, 400	16, 670, 150	ļ	67, 587, 250		14, 251, 300	59, 288, 750	ļ	9, 907, 500		J, 646, WU	6,059,500		
43. 12	1,684	180	2, 240	896, 871	0	0	896, 871			1,280	115, 168	946, 717 2, 626	2,030	182, 549 10, 568	0	0	182, 649 10, 558	0	0
1	1, 690 1, 690	3 81	7, 728	11,785	0	Ü	11, 785 0	1,722	2, 528	0	0	2, 526	4, 300	298, 900	0	0	298, 900	0	0
	1, 692	27	9	0	0	0	Ü	0	0	0	0	Ō	4, 900	134, 505	Ö	0	134, 505	0	0
\square	1, 693	3	0	11, 785	0	102.014	11, 785 1, 125, 465	1,722	2, 526 255, 560	0	4, 484	2, 626 251, 078	4, 900 2, 030	10, 568 264, 527	0	6, 405	10, 568 258, 122	0	0
	1, 693	214 275	7, 128 3, 780	1, 228, 479	965	103, 014 264, 893	772, 718	672	255, 560 184, 464	42	11,529	172, 935	448	122, 976	60	18, 470	105, 508	0	<u>0</u>
	1, 709	15	3, 780	28, 823	955	7, 358	21, 464	672	5, 124	42	320	4, 804	448	40,779	60	458	40, 321 74, 725	0	0
\vdash	1, 710	15 15	0	58, 925	0	0	58, 926	0	13, 130	0	0	13, 130	4, 900 4, 900	74, 725 52, 841	-0	0		- 0	0
<u> </u>	1, 711	45	7, 728	353, 558	0	0	353, 556	1, 722	78, 782	Ò	0	78, 782	2,030	92, 873	0	0	92, 873	0	0
	1,712	153	7, 728	1, 077, 108	1 200	91,500		1, 722	291, 428 840, 500	0 120	9, 150 38, 800	282, 278 503, 900	2,030	154, 788	0	0	154. 788	0	0
	1,717	305 15	6, 398 6, 388	1, 951, 390 48, 785		366,000 9,150	39, 835		32, 025	120	36, 600	31,110	9	48, 785	ő	0	48, 785	Ď	Ŏ
	1, 728	18	0	0	0	0	0	2,100	160, 125	. 0	Û	150, 125		487, 848	0	0		0	0
	1.730	92	0	24, 873	0	0	24, 873	2, 100 2, 100	192, 150 40, 138	0	0	192, 150 40, 138		\$85,417 \$1,702	0	<u>0</u>	585, 417 61, 702	0	Ü
	1, 733	15 229	3, 262	745, 183	1 5	0		3, 164	723, 785	0	0	723, 765	1, 694	387, 503	0	0	387, 503	Ō	0
	1,741	6	3, 252	9, 949	0	0	9, 949	3, 154	19, 390	0	0	19, 300		20, 283 725, 558	0	0	20, 283 725, 558	<u>0</u>	- 0
	1, 741	146	0	24, 873		9, 150		3, 164	463, 210 48, 251	0	0	463, 210 48, 251		50, 705	0	-0	50. 706	Ö	0
	1, 747	137	3, 262	447, 710		184,700	283, 010	3, 154	434, 259	0	0	134, 259	1, 894	232, 502	0	Ő	232, 502	Ò	0
	1, 751	197	3, 262	1, 293, 383		475, 800			3, 254, 528	0	8,540	1, 254, 526 142, 405	1,694	671, 571 15, 333	0	0	671, 671 16, 333	0	0
	1,764	15 168	3, 262 0	24, 8/3	1,200	9, 150	15, 723	3. 184 18. 632	150, 945 2, 790, 018	1, 120	187, 680		448	75, 152	Ŏ	0	75, 152	0	Û
	1,770	9	Ö	0	0	8	Ó	16, 632	152, 183	1, 120	10, 248	141, 935	448	1, 899	0	0		0	0
	1,770	143	7, 182	514, 370 31, 171	0	0		15, 632 10, 850	1, 969, 772 66, 185	1, 120 920	146, 217 5, 612	1, 823, 555 80, 573	448	54, 221 15, 372	0	0		0	
\vdash	1, 775	238	3. 038	722, 740		Ö		10, 850		920	218, 858	2, 362, 347	4, 592	1,092,437	0	. 0	1, 092, 137	Û	. 0
	1, 783	397	3, 038	1, 784, 647	0	227, 988				920 50	192, 303	2, 524, 912 171, 166	4, 592		- 0	0		0	D
	1, 796 1, 798	6) 81	5, 964 5, 964	360, 804 431, 897		70, 150 102, 175			174, 216 134, 932	50	3, 050 1, 525	133, 407	1 ö		ŏ		55, 510	Ŏ	G
	1, 800	183	8, 150	1, 498, 770	2. 200	402, 600	1,095,170	1,568	286, 944	Ū	0	285, 944			0			0	0
	1,806	183	8, 190	1, 419, 348 893, 284		314, 760 151, 280			213, 927 93, 940	0				386, 862 293, 776	0			0	- 0
	1, 812	214	7, 322	1, 397, 358		132, 370		110	659, 075	0	0	659,075	2,408	545, 987	0	Õ	546, 987	0	D D
	1, 823	214	5, 768	1, 231, 458		0		5, 404	1, 153, 754	0		1, 153, 754	2, 716 2, 716		0			0	0
	1,830	137	5, 768 6, 850	95, 289 941, 535		10, 218 183, 915			5), 347 182, 543	0		182, 543			1 0			0	ŏ
	1, 835	183	5, 850	1, 210, 545	1, 340	224, 175	986, 370	1, 330	288, 225	0	0	288, 225	1, 280	281, 820	0	0	281.820	0	0
	1, 841	427	6, 370	2, 663, 199	1, 110		2, 215, 984 1, 093, 974	1,820	587, 470 298, 900	0			1,820	1, 392, 874	0		1, 392, 874	0	
	1, 855 1, 862		δ, 104 δ, 104	1, 303, 204 56, 151		209, 230 7, 473		1, 400	150, 838	0		143, 747		39, 071	0	0	39, 071	0	0
	1, 863	46	1, 260	57, 545	0	Û	57, 645	18, 392	840, 977	930	42, 548	798, 429	420	19, 215	Ð	0		0	
\Box	1,864	153	1, 260	192, 150 400, 526				8.382		930		2, 661, 430 1, 007, 119	420					0	
	1, 859 1, 871	215	1, 280 11, 872			329, 400	2, 929, 454	15, 568	4, 273, 415	Ò	0	4, 273, 416	0	0	0	0	0	0	Ō
	1, 880	244	1,872	2, 895, 768	1,200	292, 800	2, 603, 958	25, 588	3, 798, 592	Ū								0	0
<u> </u>	1, 888	15 107	11, 872 U		1,200	9, 150		<u>25, 568</u>	118,705 498,416	9								Û	0
_	J, 892	336	0	_0	0	_0	0	9, 338	3, 802, 222	1, 520	459, 635	3, 342, 587	0	32, 879	Ö	0	32, 879	0	0
	1, 903	244	0	471, 408				13, 328					196 274						
	1, 911	305 244	3,854					6, 482			402, 600	3, 879, 356	308	37, 578	Ū	0	37, 576	0	Ō
	1, 929	305	840	256, 200	0	0	258, 200	18,900	5, 764, 500	1,000	305, 000	5, 453, 500	0	0	0		0	0	
	1, 933	15	840					8, 900 0				136, 488	19,740				150, 518 11, 017, 881	0	
 	1, 940 1, 958	558 6	0				£4, 477	Ť	15, 244	0	4, 087	11, 157	19,740	50, 207	0	0	80, 207	0	0
	1, 958	122	21, 140	2, 579, 080	0	0	2, 579, 050	4, 998	609, 756			446, 276							
<u> </u>	1, 962		21, 140					4, 998	76, 220 833, 718			55, 785 721, 325				0	19, 952	0	0
!	1, 963 1, 968	15	21, 140 22, 110	184, 678	1, 300	19, 825	164, 653	4, 942	75, 366	0	0	75, 366	238	3, 630	0	0	3, 630	9	Ō
	1, 959	45	2, 110	554, 000	1, 300	59, 475	494, 558	4, 942	226, 097									- 0	0
<u> </u>	1, 970	183	52, 110 58, 340			235, 155 140, 910		4, 942	452, 193 269, 010										Ö
	1, 976		0. J40 1,802				1, 055, 178	2, 940	259, 010	1, 260	115, 250	153, 720	0	0	Ō	. 0	0	Ö	0
	1, 385	15	11, 802	89, 930	270	2,059	87, 932	2,940	80,063	1,280	17, 995								
	1,986	15	0	0				7,560 7,560				98, 515 1, 313, 940							
 	1, 986	153 519	 					11, 942	3, 542, 392	1, 170	303, 323	3, 239, 070	1 0	526, 278	0	0	526, 278	Û	0
53.00	2,008	0	7, 728		1,270	C		1, 722	0	C	0	57, 829, 897		24, 687, 685			0 24, 513, 991	0	0
Six 3	l	9, 882	 	49, 370, 188	+	3, 804, 951	42, 992, 814	-	61, 996, 045	1	3, 030, 331	31,063,031	1_	. , , , , , , , , , , , , , ,	1	20, 233	.,		<u> </u>
	1		1	.	1			1			J	A 215 25	1				5 450 000		
53.00	2,008	1,000	5, 520	3, 825, 000 4, 780, 000	1,270	635, 000	3, 190, 000	1,230	2, 215, 000 3, 350, 000	0		2, 215, 000 3, 350, 000				1	1, 250, 000 1, 170, 000	0	
51.00	Į.	1,600	į 2, 13U	1 4,100,000	, , ,	1 4	1 4,160,600	1 3, 200	1 2, 220, 000	, ,	., .	1 4, 440, 500	1 0		, ,				

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135.001	1.00	5 7, 43	8, 660, 000	0	35,000	8, 625, 000	3, 500	3, 500, 000	D	0	3, 500, 000	1, 290	1, 200, 000	0	0	1, 200, 000	0	(i)
1 56 66	11.00		9, 800, 000		35,000	9, 565, 000	3,500	3, \$00, 000	<u>0</u> .	<u></u>	3, 500, 000	1, 110	1,080,000	Û	Ò	1,080,000	i	,
155 66	3.00				1	22, 605, COO	3, 500	14, 325, 000	<u>÷</u>	<u>-</u>	14, 325, 000	1, 050	2, 895, 000		Ó	2. 895, 000	Ď	,
186 66	i di		0 8, 195, 600		9	8, 195, 000	6.050	4, 135, 000	<u> </u>	ř	4, 135, 000	880	1, 180, 500		0	1, 180, 000		ă
1 27 25 1	i ōc				-	6, 185, 500	2 220	2, 220, 000	 	ň	2, 220, 000	1, 480	1,500,000		Ō	1, 500, 000	ň	
55, 00 56, 00 57, 00 60, 00 61, 00 62, 00		0 2 3		{ }	`	V, 103, 000	2, 220	1.440.000		ř	0	1. 520	0		ň	1,444,444	<u>-</u>	<u>*</u>
Sus.	9,00		64, 150, 000	{ -}	705,000	63, 445, 000	1,440	33, 245, 000		l	33, 245, 000	-1.75	10, 175, 000		<u> </u>	30, 275, 000	I ──-	<u>-</u>
308.4	1.00	¥	94, 130, 000	4	103.000	93, 113, 000		33, 243, 900	\vdash	<u>-</u>	45, 215, 000		10, 110, 000			75, 215, 255	<u>*</u>	
					ļ		ļ										<u>-</u>	
62, 00		0 2.3	10 - 49 404	9 340	23, 400		2, 220	22, 200	2, 220	22, 200	- 0	760	7, 600	760	7, 600	<u> </u>	760	7, 600
155-70-1						<u>v</u>					\		1, 512, 400	760		×		
62.01	1, 99				4,099,400		2,220	3, 442, 700	5, 220	3, 442, 100	<u> </u>	760			1, 512, 400	<u> </u>	760	2, 547, 200
64.00	3,00		80 2, 670, 000	1,780	2, 670, 000	0	1, 240	3, 435, 000	1,240	3, 435, 660	0	760	2, 190, 000		2, 190, 000	0	1,800	3, 750, 000
67.00	2,00	01	<u>o</u>	<u> </u>	. 0	0	1,050	1, 400, 000	1,050	1,400,000	0	700			j. 400, 000	0	700	1, 400, 000
69.00	7, 30	ÖΙ	0)	0		350	1, 277, 500	350	1, 277, 500	0	100	2, 555, 600	700	2,555,000	0	700	2, 555, 000
76.30		ō	Ō			11	0		0			0		. 0				
Sua 5	34.30	ō —	6, 792, 804	5	6, 792, 800	0	I	8, 577, 400		9, 577, 400	0		7, 865, 000	L	7, 665, 000	C		10, 259, 800
1		-1			1			1		[10.0		
11		_	_									11				100		
7		-1-					 							17.				
Sun. 1	11.80	₹ !	\$40,00	<u> </u>	940,000	0		12, \$17, 000		0. 377, 000	2, 240, 000		5, 492, 000		5, 492, 000	· · · · · 0		2, 880, 000
Sun. 2	12, 12		29, 651, 15		14, 299, 400	18, 670, 150		67, 587, 250		1, 251, 300	59, 258, 750		9, 907, 500		3, 843, 000	6, 059, 500	i	0
Sira I	9,8		49, 370, 18		5, 804, \$51	42, 992, 814		61, 996, 045			57, 829, 897		24, 687, 688	1 1	23, 333	24, 510, 991		Ö
Stra. 4	9.00		64, 150, DO		705, 000	63, 445, 600		33, 245, 000			33, 245, 000		10, 275, 000			00, 275, 000		ŏ
Sin. 5	14.30		6, 192, 80		6, 792, 800	113,000		9, 577, 400		9, 577, 400	1	·	7, 665, 000		7, 665, 000	1		10, 259, 800
Total	B7, 10		150, 904, 13			123, 107, 564	 	185, 022, 695			352, 583, 647		58, 027, 188		7, 028, 333	KO 848 491		13, 139, 800
10191	B1, 10	۲.	p 30, 904, 13	ـــــــــــــــــــــــــــــــــــ	50' 345' 13T	HES. 107, 304	Ц	HA2' AT 5' 623		ho' e44' 521	Bat ana fat	L	20,001,100	ــــــــــــــــــــــــــــــــــــــ	61 050 311	(10, 010, 431	ــــــــــــــــــــــــــــــــــــــ	10,100,000

				-		LCULA			IC OL							<u> </u>			
itation	765	Dis		10. 1	Hard Ro	ck	N V2	la.	Yo	Soft B	ock Fet VI	Dry V2	Soll	Yo	41	Wet VI	Dry V2	Kad Ao	¥o
Ko. -10, 80	((1)	7,800	<u> </u>	Vo 0	et Al	Wet VI	Dry V2	, AO	8, 3\$7, 000		8, 357, 000		0	2, 852, 000	0	2, 652, 000	0	0	2, 652, 000
-3.00		4,000	0	940,000	Ō	\$40,000	0	1,630	6, 280, 000 0	1, 630 380	4, 020, 000	2, 210, 000	680	2, 840, 000	680	2, 840, 000	0	680 760	2, 880, 000
1.00 Sum 1	<u> </u>	0 11,800	470	940,000	470	940,000		1, 500	12, 617, 000	200	10, 377, 600	2, 240, 000	740	5, 492, 000	740	5, 492, 000	Ö		5, 532, 000
30×.1		11,000		310,000		310,000													
			170	70.7/0	176	35, 500	58, 250	1,500	120, 750	380	22, 500	98, 250	1,500	69, 500	0	0	69,500		—— <u> </u>
1,00		1, 150	470 3, 280	93, 750 3, 772, 000	470 950	1, 092, 500	2, 579, 500		3, 829, 500	520	\$98,000	3, 231, 500	1, 280	1, 172, 000	Ö	Ů	1, 472, 000	0	Ŏ
2. 20			1.280	32, 800	950	9,500	23, 300	3, 330	33, 300	520	5, 200	28, 100		17,800	.0	0	17, 800	0	<u> </u>
2.21			3.280	623, 200	950	180,500	442, 700 23, 300	3, 330	632, 700 33, 300	520 520	98, 800 5, 200	533, 900 28, 100	2, 280	433, 200 17, 800	0	0	433, 200 17, 800	0	<u>n</u>
2, 40		- <u>10</u>	3, 280 3, 280	32, 800 1, 935, 200	950 950	9, 500 560, 500		3, 330		520	305, 800		1, 280	755, 200	0	0	755, 200	ő	Ŏ
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43.12 Stat. 2	1,684	12, 120	1, 600	40, 681, 550			18, 255, 150	.J.roo	78, 362, 250	11.444	18, 531, 300	59, 830, 950		9, 877, 500		4, 068, 000	5, 809, 500	[0
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43. 12		180	2, 690	977, 848	Ô	0	977, 848	10, 200	1, 083, 479	1, 280	115, 188	968, 311	0	182, 649		0	182, 649	1	0
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	1,841	427	6,820	2, 855, 349	1, 110	446, 215	2, 409, 134	2, 140	798, 490	0		798, 490	1, 820						1
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<u> </u>	1,888	15	12, 322	97, 387	1,200	9, 150	88, 237	15, 798	122, 214	0	9	122, 214	0	71, 202					
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ļ	1,958	122	21, 590 21, 590	2, 633, 980 329, 248			2, 633, 980 329, 248							 				<u> </u>	
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62.00		* ***		£0 105 000		705,000	67, 490, 000	2, 200	33, 500, 000	~ <u>-</u>	Ď.	33, 500, 000	1111	10, 015, 000		0	10, 075, 000		ř
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67.00	1	2,000	0	0		0	0	1,050	1,400,000	1,050	1, 400, 000	0	700	1, 400, 000		1, 400, 000	ļ	700	1,400,000
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Sua. 5	a a	4, 300		7, 285, 150		6, 792, 800	472, 350		9, 807, 550		9, 577, 400	30, 150		7, 665, 000		7, 665, 000	0		10, 259, 800
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Sea 1	k	1. 800		940,000		940,000	0		12, 617, 000		10, 377, 000	2, 240, 000		5, 492, 000		5. 492. 000	0		5, 532, 000
Sug. 2		2, 120		40, 681, 550	 	22, 426, 400	18, 255, 150		78, 362, 250	I	18, 531, 300	59, 830, 950		9, 877, 500		4, 068, 000	5, 809, 500		0
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L-7 Calculation Table of Excavation Volume

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54.00	41.444	1,000	4, 100	7, 790, 000	O O	Ó	7, 790, 000	4, 300	4, 500, 000	0	0	4, 500, 000	2, 570	2, 225, 000	Ö		2, 225, 000		0
55, 00		1.000	11, 480	13, 020, 000	Ď	35, 000	12, 985, 000	4, 700	4, 100, 000	. 0	0	4, 700, 000	1, 880	1, 690, 000	. 0		1,690,000		0
56.00		1.000		13, 405, 000	70		13, 370, 000	1, 700	4, 500, 000	0	0	4, 600, 000	1, 500	1, 425, 000	. 0		1, 125,000		. 0
57.00		3,000		33, 675, 000			33, 675, 000	4,500	19, 605, 000	0	0	19, 605, 000	1, 350	3, 525, 000		0	3, \$25,000		0
60.00		1,000		13, 625, 000			13, \$25, 000	8, 570	5, 710, 000	0	Ó	5, 710, 000	1,000	1, 450, 000			1, 450, 000	L	0
61.00		1,000	17, 050	11, 740, 000			11, 740, 800	2, 850	3, 015, 000	0	0	3, 015, 000		2,010,000		0	2,010,000		0
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		3,303											<u> </u>				1.00		
52.00		10	6, 430	64, 500	6, 430	64, 300	0	3, 180	31, 800	3, 180	31,600	, 0		10, 600	1,060	10, 600	0	1,050	10, 600
62.01		1, 990	6, 430	11, 372, 850	-6, 439	11, 372, 850	0	3, 180	6, 268, 500	3, 180	6, 268, 500	0	1,060	2, 089, 500		2,089,500	0		3, 512, 150
64.00		3,000	5,000	9, 960, 000	5,000	9, 950, 000	0	3, 120	3, 180, 000	3, 120	9, 180, 600	0	1,040	3,060,000	1,040	3,060,000	0		5, 205, 000
67,00		2,000	1, 640	3, 350, 000	1,640	3, 350, 000	0	3,000	5, 700, GCO	3,000	5, 700, 000	0	1,000	1, 940, 000		1, 940, 000	0		1, 940, 000
69.00		14, 900	1,710	12, 739, 500	1,710	12, 739, 500	Ò	2, 700	20, 115, 000	2,700	20, 115, 000	0	940	7,003,000	940	7,000,000	0	940	7,003,000
83.90		0	. 0	0		0	0	- O		- 0			0		0	1	<u> </u>		0
Sura, 5	~~-	21, 900		37, 486, 650		37, 488, 650	0		41, 295, 300		41, 295, 300	0	l	14, 103, 100		14, 103, 100	0		17, 670, 950
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L-7						l		L							ļ				
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Sur. 1		12,500		20, 842, 500		20, 842, 500	0		21,750,000	L	21, 750, 000	0	ļ	8,000,000		8,000,000	0	·	8,000,000
Sua. 2		12, 120		15, 293, 050			37, 558, 610		114, 516, 572	<u> </u>	38, 259, 500		<u> </u>	17, 556, 200	ļ	A, 556, 200		ļ	688, 500
Sun 3		9, 882		80, 902, 288			75,097, 338		108, 710, 550	ļ		102, 671, 963	<u> </u>	44, 171, 959	ļ		44, 148, 627		0
Stin. 4		9,000		98, 225, 000			97, 520, 000	<u></u>	45, 125, 000			45, 125, 000	 	14, 835, 000			14, 835, 060	<u> </u>	0
Sua. 5		21, 900		37, 486, 650		37, 486, 659	. 0	l	11, 295, 300	L	41, 295, 300	[<u>0</u>	Ь	14, 100, 100		14, 103, 100	[ļ	17, 570, 950
Total		95, 402		352, 749, 498	I	142, 573, 551	210, 175, 948	L	329, 397, 432	<u> </u>	105, 343, 397	<u> 224, 054, 035</u>	<u></u>	98, 666, 259	L	00, 682, 633	67, 983, 627	<u> </u>	26, 359, 450

 Total Excavation Vol.
 807, 172, 639

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2.20		io	8,010	80, 400	950	9, 500	70, 900	3,000	30,000	520	5, 200	24, 800	2,000	25,000	0	0	25.000	0	0
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36. DO 39. DO		4. 120	5, 220	19, 271, 080	5, 220		8, 517, 850	420		420		30, 213, 972	420	865, 200	420	865, 200	0		0
43, 12	1, 584	12, 120	3, 200	133, 574, 060	3, 200	07 025 450	39, 648, 610	7, 200	118, 373, 972	1,280	41, 754, 500	76, 819, 472	<u>0</u>	16, 656, 200	0	7, 655, 200	9, 000, 000		688, 500
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43, 12	1.001	100	4, 135 12, 785	1, 523, 298 20, 428	0	0	20, 428	2, 757	4, 266	0	0	4, 265	3, 200	16, 677	- 6	0	16, 677		0
	1, 690	51	600	35, 800 16, 470	0	0	36, 800 16, 470	40	2, 440 1, 098	0	0	2, 440 1, 098	7, 733	471, 685 212, 259	0	0	471, 686 212, 259		
	1.692 1.693	27	003	20, 428	Ŏ	Û	20, 428	40	4, 266	0	0	4, 255	7, 733	15, 677	0	0	16, 577		<u> </u>
	1, 693	214	12, 795		965	103, 014 264, 893	1, 963, 716	2,757 1,100	411, 832 302, 078	42	4, 484 11, 529	407, 348 290, 549	3,203	417, 442 194, 085	0 60	6.405 15,470	411, 037 177, 595	┝╌┥	0
	1,700 1,709	275	6, 565 6, 565	1, 802, 124 54, 634	955	7, 358	47, 276	1, 100	8, 598	42	320	8, 376	707	64, 351	50	458	63, 894		<u>ō</u>
	1.710	15	600	9, 150 102, 140	0	0	9, 150	40 40	\$10 21,330	0	0	\$10 21,330	7, 733	117, 922 83, 387	0		83, 387		0
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	1,712	153	2, 795		1, 200	91,500 368,000	1, 895, 556 3, 679, 641	2, 757 4, 197	530, 261 1, 280, 025	120	9, 150 35, 600	521, 111 1, 243, 425	3, 263	244, 266 0	0		244, 255		<u>0</u>
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-	1, 747	137 397	6, 405	2, 539, 511	1, 200	475, 800	2, 053, 711	5, 800	2, 299, 869	0	0	2, 299, 869	3,015	1, 195, 257	0	0	1. 195. 257		0
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	1,770	143	600		O U	0	1,002,057 59,130	9, 767 19, 478	3,529,634 118,815	1, 120 920	146, 217 5, 612	3, 383, 417 113, 203	797 797	114, 283 27, 355	1 0		114, 283 27, 355		<u> </u>
	1.775	238	3, 381 5, 006	59, <u>130</u> 1, 401, 457	Ö	0	1, 401, 457	9, 478	4, 539, 430	920	218, 868	4, 320, 562	8, 172	1, 902, 577	0	Ô	1, 902, 577		0
	1,783	397	5,776	3, 278, 318		227, 988 70, 159	3, 050, 330 586, 245		4, 708, 490 309, 004	920 50	192, 303 3, 050	4, 516, 187 305, 954	7, 823	1, 550, 914	0			 	
	1, 798	61 61	10, 751 10, 761	656, 396 772, 062		102, 175	589, 887	5,056	242, 077	50	1, 525	240, 552	0	94, 570	0	0	94, 570		0
	1,800	183	1.553			402, 600 314, 760	2, 260, 583 2, 177, 508	2,871 2,871	525, 453 409, 207	0	0	525, 453 409, 207	3, 161 3, 101	567, 419 647, 367	0				<u>u</u>
	1,805 1,812	122	14,553 2,685	1, 547, 568	1, 240	151, 280	1, 395, 286	1, 501	195, 338	0	Ó	195, 308	3, 974	481, 817			484, 877		0
	1.816	214		2, 434, 439		132, 370		1, 601 9, 249	1, 158, 258 1, 974, 726	0	0	1, 158, 258 1, 974, 726		902, 802					<u>-</u>
	1,823 1,830		6, 120	2, 160, 638 168, 074	Ü	10, 218	157, 857	9, 249	89, 780	0	0	89, 780	4,483	50,038	8	0	50.038		<u> </u>
	1,831		1, 922	1, 636, 354 2, 107, 805			1, 452, 433			0	0								
	1,835	427	1, 114	4, 563, 085	1, 110	446, 215	4, 116, 870	3, 334	1, 240, 285	0	0	1, 240, 285	3,004	2, 230, 563	1-0		2, 230, 563	L	0
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	1,862	48	2, 594 2, 594	118, 668	0	0	118, 668	29, 348	1, 342, 671	930	42, 548	1, 300, 124	665	30, 406		ŧ t	30, 406		9
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	1,880	244	38, 777	4, 581, 519	1, 200	292, 800				0	0		0						0
	1,888		18, 777 600		0	0	64,050	280	792, 993	0	81, 130	711,863	14, 297	763, 103) (753, 103		0
	1, 692	335	600	201, 300	. 0	0		14, 577	5, 915, 360 4, 150, 439	1,520	459, 635 179 340	5, 455, 725 3, 971, 099	300						0
	1, 903		8, 388		850	129, 525	1, 240, 931	13, 334	7, 053, 137	250	388, 875	6, 664, 262	451	163, 512) [183,512		0
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	1, 940	558	600	334, 890	0	0	334, 890	270	158, 282	1 0			09, 785 05, 571				108, 491		0
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53, 00 Sum 3		9, 882	2, 65	86, 575, 938	1, 210	5, 804, 951	80, 870, 988	3,017	109, 024, 168		4, 038, 597	104, 985, 571		14, 171, 95		23, 33	3 14, 148, 62	<u> </u>	0
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Sile, 2 12, 120	133, 574, 080	93, 925, 450 39, 648, 610	118, 373, 972	41, 754, 500 78, 619, 472	16, 656, 200	7, 656, 200 9, 000, 000	688, 500
Sus. 3 9, 882	86, 675, 938	5, 804, 951 80, 870, 988	103, 024, 168	4, 038, 597 104, 985, 571	K4, 171, 959	23, 333 [14, 148, 627]	0
Sea. 4 9, 000	03, 750, 000	705, 000 103, 045, 000	45, 360, 000	0 45, 360, 000	14, 835, 000	0 14,835,000	0
Sus. 5 21, 900	38, 200, 200	37, 485, 650 713, 550	41, 265, 150	41, 265, 150 0	14,080,000	14, 083, 060 0	17, 650, 850
total 95, 402	383, 042, 689	158, 764, 551 224, 278, 148	035, 773, 290	108, 808, 247 226, 965, 043	97, 746, 159	29, 762, 533 B7, 983, 627	26, 339, 350

 Dotal Excavation Vol.
 842, 901, 498

 DRY
 519, 226, 818

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stion	770	Dls (m)	λo	Vo	Hard R		Dry V2	ю	Yo	Soft let Al	Tet Yi	Dry V2	Ao	Yo	Soll Fet Al	Ret VI	Dry V2	Nad No	Ve
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3, 12	1,684	180 3 61	2, 690 8, 178	977, 818 13, 158	0	0	977, 848 13, 158	10, 200 1, 842		1, 280 0	115, 168 0	958, 311 2, 992	2,030	182, 649 10, 568	0	0	182,649 10,568		
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	1,693 1,700	214 275	8, 178 4, 230		965	103, 014 254, 893	1, 221, 540 896, 243	792	217, 404	42	11,529	205, 875 6, 634	448 448	122, 976 40, 779	60 60	16, 470	106, 586 40, 321		-
	1, 709 1, 710	15 15	4, 230 450	35, 685 6, 863	289 0	7, 358	28, 327 6, 863	792 120	6, 954 1, 830	0	D	1, 830	4, 300	74, 725	0	0	74, 725		
	1,710	15 45	450 8, 178	65, 789 374, 144	0	0	65, 789 374, 144	120 1, 842	14, 950 84, 272		0	84, 272	4, 900 2, 030	52, 841 92, 873	0	0	52, 841 92, 873		
	1,712	153 305	8, 178 6, 848	1, 145, 733 2, 088, 640	1, 200	91,590 366,000		1, 842 2, 220	309, 728 677, 100	120	9, 150 35, 600	640, 500	0	154, 788 0	0	0	154, 788 0		
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	1.730	92	450	41,175	0	0	41, 175	2,220	203, 130 41, 958	0	0	203, 130	6, 398	585, 417 61, 702	0		585, 417 61, 702		
	1,733	229	3, 712	849, 120	0	0	849, 120	3, 284	751, 215	0	0	751, 215	1, 694	387, 503 20, 283	0	0	387,503		
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	1, 808 1, 812	122		948, 184	1, 240	151, 280	795, 904	1,090	132, 980	0	0	132, 980	2, 408	293, 776 546, 987	Ü	0	293, 776		1
	1, 816					0	1, 327, 543	5,724		0	0	1, 222, 074	2,716	579, 866	0	Û	579,866		
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	1, 835		7, 310	1, 292, 895	1, 340	224, 175	1,068,720						1, 260 1, 820		0	0	1, 392, 874	I	
	1,855	214	8, 554	1, 199, 279	980	203, 230	1, 190, 049		341, 500	0	0	341, 600 146, 797							
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	1, 864 1, 869	61	1,710	427, 976		35, 500	391, 376	18, 582	1, 047, 875	930	28, 365	1, 019, 310		12, 810		0	12, 810		
	1, 871 1, 880	244	12, 322	3, 006, 568	1, 200	292, 800	2, 713, 758	15, 798	3, 854, 712	0	0	3, 854, 712	1 0	0	0) Ö	0		-
	1,888	15		97, 387		0	48, 038		522, 968	6	81, 130	441, 838	9, 338	498, 418		0	498, 416		1
	1, 892	336	450	150, 975	0	103, 700	477, 508	13, 558	2, 183, 920	1, 220	179, 340	2, 304, 580		51, 240	C	0	51, 240		
	1, 911	305		126, 510	850	129, 625	596, 885	6, 802	3, 556, 300 4, 360, 036	250	388, 875 402, 600	3, 167, 425		37, 576	C	0	31,578		
	1, 929	305	1, 290	393, 450	C	0	393, 450		5, 862, 100	1,000	305, 000	5, 557, 100	0		O	0	150, 518	<u> </u>	1-
	1, 939 1, 940	558	450	251, 167	0	0	251, 167	320	156, 282	0	0	156, 282	13,740 19,740	11,017,881	C	0	11, 017, 881		
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-	1, 952 1, 953	15	21, 590	329, 248 2, 864, 331		109,038	2, 755, 294	5, 238	873, 978	1, 340 1, 340	112, 393	761, 585	0	19,962) 0	19, 962		-
	1, 968	15	2.560	191, 540	1, 300	19, 825	171,715	5, 182	79, 026 237, 077	_0	0	237, 077	238	10,889) 0	10, 889		<u> </u>
	1, 970	183	12, 550	2, 868, 525	1, 300	235, 155	2, 633, 370	5, 182	523, 563	1 0	0	523, 563) 0			
	1, 976 1, 982	92		1, 121, 058	270	24, 705	1, 096, 353		318, 420	1,260 1,260	115, 290	203, 130	0	1) [j 0	(
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	1,991	519	450	1, 547, 723	0	329, 248	1, 218, 475	2, 182	3, 554, 835	1,170	303, 323	3, 251, 514	0	375, 913	0	0	375, 913		0
53.00	2,008		8, 176		1, 270			2, 122		0			2,030		0				
Sun, 3		9, 882	l	53, 128, 002	li	5, 804, 951	47, 323, 051		64, 162, 155		4, 038, 597	60, 123, 558	<u> </u>	24, 537, 323		23, 333	24, 513, 991		0
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53.00	2,008	1,000	5, 520	4, 050, 000	1, 270	635,000	3, 415, 000	1, 230	2, 230, 000	0	0	2, 230, 000	1, 450	1, 250, 000	0	0	1, 250, 000	1	0
54, 00		1.000	2, 580	5, 275, 000	0	0	5, 275, 000	3, 230	3, 380, 000	0	0	3, 380, 000	1,050	1, 170, 000	0	0	1, 170, 600		ō
55.00		1.000	7. 970	9, 200, 000	.0	35, 000	9, 165, 000	3, 530	3, 530, 000	Û	0	3, 530, 000	1, 290	1, 200, 000	0	. 0	1, 200, 000		0
56,00		1.000	0. 430	10, 095, 000	70	35,000	10,050,000	3,530	3, 530, 000	0	0	3, 530, 000	1, 110	1,080,000	0	0	1,080,000		0
57.00		3, 200	9, 760	24, 315, 000		0	24, 315, 000	3, 530	14, 415, 000	0	ď	14, 415, 000	1,050	2, 745, 000		0	2, 745, 000		0
60, 00		1,000	6, 450	8, 540, 000		0	8, 540, 800	6.080	4, 165, 000	. 0	Ö	4, 165, 000	780	1, 130, 600	· ·	0	1, 130, 000		Ō
61.00		1,000	10, 630	5, 720, 000		Ō		2, 250	2, 250, 000	0	. 0	2, 250, 000	1, 460	1, 500, 000		0	1,500,000		Ō
62.00			2, 810					2, 250		0			1,520						
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62.00		10	2.810	28, 100	2, 340	23, 400	4, 700	2, 250	22, 500	2,220	22, 200	300	760	7,600	760	7, 500	0	760	7, 600
52.01		1, 990	2. 810	4, 567, 050		4, 099, 400	467, 650	2, 250	3, 472, 550		3, 142, 700	29, 850	760	1, 512, 400	760	1, 512, 400	0	760	2.547.200
64.00		3,000	1,780	2, 670, 000	1,780	2, 670, 000	0	1,240	3, 435, 000	1,240	3, 435, 000	0	760	2, 190, 000	760	2, 190, 000	0	1,800	3, 750, 000
57,00		2.000	0	0	1	0	Ō	1.050	1, 400, 000	1,050	1, 490, 000	0	700	1, 400, 000	700	1, 400, 000	Ö	700	1, 400, 000
89.00		7, 300	0	0	1	Ó	0	350	1, 277, 500	350	1, 277, 500	0	700	2, 555, 000	700	2,555,000	0	700	2, 555, 000
76, 30			Ò	5	1	7 7 7 V	7.77	0		0			Ö	1.7	0				***
Sun. 5		4, 100		7, 265, 150		6, 792, 800	472, 350		9, 607, 550		9, 577, 400	30, 150		7, 665, 000		7, 665, 000	0		10, 259, 800
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Sus 1		1. 800		940,000		940, CCO	0		12, 517, 000		10, 377, 000	2, 240, 000	l	5, 192, 000		5, 492, 000	0		5, 532, 000
Sup. 2		5, 920		112, 007, 150	t	95, 997, 400	16,009,750		90, 054, 250			53, 650, 950	1	14, 865, 500		9,056,000	5, 809, 500	_	<u> </u>
Sun 3		9. 882		53, 128, 002	 		47, 323, 051		64, 162, 155			60, 123, 558		24, 537, 323		23, 333	24, 513, 991		0
Sus. 4		9,000	·····	68, 195, QOO			67, 490, 000		33, 500, 000		0	33, 500, 000	├	10, 075, 000	T	0	10, 075, 000	I	
Sua 5		14. 30D		7, 285, 150	†	6, 792, 800			9, 607, 550		9, 577, 400	30, 150		7, 655, 000		7, 865, 000	0		0, 259, 800
Total		BO. 902		241, 535, 302		110, 240, 151			209, 940, 955			149, 544, 658	7	62, 634, 823					15, 791, 800
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 Total Excavation Vol.
 529, 902, 880

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Station (STA)	(11)	Dis (m)	λo	Vo	Hard R	ock Tet Vi	Dry V2	Ao	Vo	ret Al		Dry V2	10	Vo	Ket VI	Ret VI	Dry Y2_	ko	Yo
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-11.10 -3.00		4.000	0	2,060,000		2,060,000	. 0	2, 430	9, 860, 000	2, 130	9, 660, 000	0	7\$0	3, 220, 000	190	3, 220, 000	. 0	790 820	3, 220, 000
1.00		4 174	1,030	8 040 000	1.030	0.000.000	· 0	2,400	19, 501, 500	2, 400	19, 501, 500	0	820	6, 419, 500	820	6, 419, 500	0	920	6, 419, 500
Sua 1	—	12, 100		2,060,000		2, 050, 000			13, 501, 100		14,000,000	<u>`</u>		6, 113, 300		4, 113, 400			77,11,77,11
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2.21		190	5, 300	1,007,000	950	180, 500	828, 500	2.520	478, 800	520	98, 800	380,000		524, 400	ŏ	ŏ	524, 400	D	0
2.40		10	5, 300	53,000	950	9, 500	43, 500	2,520	25, 200	520	5, 200	20,000		22,600	0	0	22, 500	0	0
2.41		590	5, 300	3, 127, 000	\$50	560, 500	2, 565, 500	2,520		520	305, 800	1, 180, 000	1, 750	1, 038, 400	0	<u>.</u>	1,038,400	0	
3,00		2,000	5, 300	10, 690, 000	950		8, 790, 000		28, 610, 000 7, 827, 000	520 520	155,000	27, 570, 000 7, 671, 000	1, 750	3, 100, 000 402, 000	0	0	3, 100, 000 402, 000	ļ	
5.00		300 200	5, 390	1, 617, 000 539, 000	950 950	285,000 95,000	1, 332, 090	26, 090	2, 730, 000	520	173,000			131,000	Ö	0	134,000		
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7.00		1,000		730,000	ŏ	730,000	Ō	0	700,000	Ö	700, 000	. 0	0	175,000	0	175,000	0		0
8.00		2,000	1,460	2, 850, 000	1, 460	2,850,000	0	1,400		1, 400	2,800,000	0	350	700,000	350	700.000	0		
10.00		3,500	1, 390	4, 585, 000	1, 390	4, 585, 000	0	1,400	4, 970, 000 3, 900, 000	1, 400	4, 970, 000 3, 900, 000	0	350 360	1, 242, 500 975, 000	350 350	1, 242, 500 975, 000	0		
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16.00		1,000	400	200,000	400	200,000	Ö	1,400	1, 500, 000		1,500,000	0	350	375, 000	350	375,000	0		0
20.00		4,000	0		Ö		0	1,600	6, 080, 000	1,600		0	400	1,520,000	400	1, 520, 000	0		0
24.00		1,000	4, 330		4, 330	4, 705, 000	0	1,440	1,480,000		1,480,000	0	360	370,000	360	370,000	0	ļ	0
25.00		1,000	5, 080		5,080	5, 970, 000	. 0	1,520	1,540,000 1,580,000		1,540,000 1,580,000	0	380 390	285, 000 395, 000	380 390	385, 000 395, 000	- 0	 	
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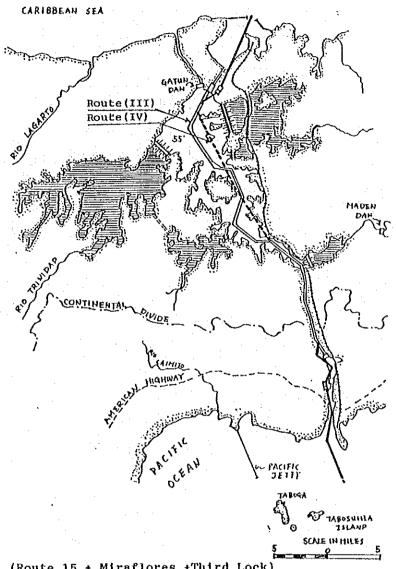
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61.00		1,000	13, 390	9, 125, 000		0	9, 125, 000	2, 520	2, 625, 000	. 0		2, 625, 000	1, \$60	1,130,000			1, 730, 000		<u> </u>
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12 15	1, 584	180	4, 135	1,523,298	0	- 0	1, 523, 298	15, 947	1, 682, 930	1, 280	115, 168	1, 587, 762	0	288, 234	0	0			0
13.16	1, 690	<u> </u>	12, 795	20, 428	Ò	. 0	20, 428	2, 757	4, 256	0	0	4, 256	3, 203	16, 677	0	0	16,677 471,586	<u> </u>	0
<u> </u>	1, 690 1, 692	61 27	600 600	36, 600 16, 470	0		36, 600 16, 470		2, 440 1, 098	0	0	2,440 1,098	7,733	471, 686 212, 259	0	0		ļ	Ö
	1, 693	2	600	20, 428	0	0	20, 428	40	4, 266	0	0	4, 266	7, 733	15, 677	0	. 0	16, 677		0
	1, 693	214	2, 795 6, 565		965	103, 014 264, 893	1, 953, 716		411, 832 302, 078	12	4, 484 11, 529	407, 348 290, 549	3, 203 707	417, 442 194, 065	0	6, 405 16, 470	411.037 177,595		0
	1,700	275 15	6, 565	54, 634	965	7, 358	47, 275	1, 100	8, 696	42	320	8, 376	707	64, 351	\$0	458	63, 894		0
	1,710	15	E00	9, 150			9, 150 102, 140		21, 330	0	0	21, 330	7, 733	117, 922 83, 387	0	0	117, 922 83, 387	1-	0
-	1,710	15 45	600 2, 795		0		585, 387		126, 153	0	0	126, 153	3, 203	146, 560	0	Ó	146,560		0
	1,712	153	2, 795	1, 987, 055					530, 261	120	9, 150 36, 600	521, 111 1, 243, 425	3, 203	244, 266	0	0	244, 266		. 0
	1,717 1,727	305	13, 264 13, 264				3, 679, 641 95, 556		1, 280, 025 64, 001	120		63,088	0	95, 588		. 0	35, 566		0
	1,728	75	600	45, 750	0	Ö	45, 750	4. 197	320, 006	0		320,095		985, 860 1, 158, 792		0		ļ	0
<u> </u>	1,730 1,733	92 15	\$00 \$00					4, 197	384, 008 80, 950	0	0	384, 008 80, 080		122, 134		0	122, 134		C
	1,734	229	7,057	1, 614, 266	0	0	1, 614, 266	Б, 303	1, 441, 792	0		1, 441, 792		767, 034			767. 034 40, 148	<u> </u>	0
	1,741	146	7, 057 600						38, 448 885, 965	0	0	38, 448 885, 965		40, 148 1, 353, 672			1, 363, 672		
	1,746	15	600	53, 412	0	9, 150	44, 262	5, 800	88, 456	0		88, 455		90, 233					0
	1,747	137 397	6, 405 6, 405			164,700 475,800			795, 108 2, 299, 869	0		796, 108 2, 299, 869		413, 743 1, 195, 257				1	(
	1, 754	15	6, 405	53, 412	1, 200	9, 150	44. 262	5, 800	271, 202	. 0	8, 540	262, 652	3,015	29, D65	0				
	1.765	168	600 600				100, 650	29, 767	4, 993, 431 272, 389		187, 880 10, 248	4, 805, 551 262, 121	797	133, 735					1
	1, 270	143	600	1,002,057	0	0	1,002,057	29, 767	3, 529, 634	1, 120	146, 217	3, 383, 417	797	114, 283	0		114, 283	:I	
	1,775	238					59, 130 1, 401, 457	9, 478	118, 815 4, 539, 430			113, 203 4, 320, 562		27, 355 1, 902, 577			1, 902, 577		
	1,783	397	5, 776	3, 278, 318	0	227, 988	3,050, 330	8, 885	4, 708, 490	920	192, 393	4, 516, 187	7,823	1, 550, 844	0	. 0	1,550,944		
	1, 796		10, 751		1, 150	70, 150 102, 175		5,066	309,004 242,077			305, 954 240, 552		94, 570					
	1,798	183	10, 761 14, 553	2, 663, 183	2, 20G	402, 500	2, 250, 583	2, 871	525, 453	0	0	525, 453	3, 101	567, 419	0	0	567, 419	l	
	1,805 1,812	183	14,553	2, 492, 265 1, 547, 566	2,200	314, 760	2, 177, 506 1, 396, 286		469, 207 195, 308			409, 207 195, 308	3, 101	647, 367 484, 877	0				
	1,812	214	12,685	2, 434, 439	1, 240	132, 370	2, 302, 063	1, 601	1, 158, 258	0	0	1, 158, 258	3, 974	902, 802	0		902, 802		
	1, 823	214	10, 120	2, 160, 638	0	0	2, 160, 638 157, 857	9, 249	3, 974, 726 89, 780				4, 483	957, 089					
-	1,830	137	10, 120	1, 835, 354	1, 340	183, 915	1, 452, 439	2, 525	346, 579	0	0	345, 579	2,080	285, 429	3 0		285, 429		
	1, 835	183	11, 922	2, 107, 805	1, 340	224, 175	1,883,630	2, 525	536, 105										
	1,841	127	0. 259	4, 563, 085 2, 190, 313	960	209, 230	1, 981, 083	2, 475	528, 495	0	0	52R, 49S	7.444	1, 589, 228	3 0		1, 589, 228		
	1,852	15	0, 259	98,004	980	7,473	90, 531	2, 475	242, 653	0			7,414	61, 826 30, 408					<u> </u>
}	1, 863	161	2, 594 2, 594	118, 688 395, 582				29, 348 29, 348			141, 825	4, 333, 745	\$85	101, 354	0		101, 354		
	1, 859	61	2, 594	670, 399	0	36, 600	633, 799	29, 348	1, 654, 414	930	28, 365	1, 626, 049	665	20, 271	0				
	1, 871		9, 386 38, 777					24, 895 24, 118	6, 725, 702 5, 884, 183	0		δ, 726, 702 5, 884, 183	0				0		
	1,888	15	8,777	147, 747	1, 200	9, 150	138, 597	24, 116	186,018	0	0	186,016	0	109, 015	0		109.015		
_	1, 889	107	800	64, 050	0	0		280	792, 993 5, 915, 360			711, 863 5, 455, 725							
	1,892					103, 709	992, 792	20, 685	4, 150, 439	1, 220	179, 340	3, 971, 039	300	91,688	3 0	0	91, 588		
	1, 911	305	8, 188	1, 370, 616	850	129, 625	1, 240, 391	13,334 2,916	7, 053, 137	250		6, 664, 262 8, 293, 286							 ;
 	1, 921 1, 929	244 305		352, 542 699, 359	5 0	0	699, 355	38, 362	11, 700, 328	1,000	305,000	11, 395, 328	0		i o	0	0	·	
.		15			0	Ö	22,059	18, 362	294, 567	1,000	7, 625			303, 358					
-	1, 939																		
	1, 939 1, 940 1, 958	558	600			0		290	29, 238	0	4, 087	25, 151	35, 571	108, 49			108, 491		ļ

																			
	1, 952	15	18, 693	590, 075	0	0	590, 025		141, 767	1, 340	20, 435	121, 332	0	0		0	0	l	0
	1. 963	168	18, 693	5, 126, 033	01	109, 038	5, 016, 998	9, 296	1, 550, 973	1, 340	112, 393	1, 438, 580	. 0	35, 971	Ō	Ō	35, 971		. 0
11	1, 958	15	22, 422	341, 931	1, 300	19, 825	322, 105	9, 195	140, 228	Ó	0	140, 228	429	6, 510	0	0	6,540		. 0
1	1, 959		2, 422	1, 025, 734	1.300	59, 475	966, 319	9, 195	420, 684	ū	0	420, 681	429	19, 621	0	. 0	19, 821		0
1	1. 570		2. 422	4, 586, 436	1,300	235, 155	4, 351, 281	9, 195	890, 778	Ō	0	890, 778	429	39, 241	0	. 0	39, 241		0
	1, 976		27.703	4. 185 622	1, 270	140, 910	4, 044, 712	540	496, 369	- 0	115, 290	381.079	0	0	0	0	Ō		ő
1	1. 982	92	18, 041	4, 185, 622 1, 650, 775	210	24, 705	1, 628, 870	4.885	446, 959	1, 260	115, 290	331,669	Ô	Ö		Ō	Ō		Ö
	985		8,011	142, 140	270	2, 059	140, 081	4, 885	126, 553	1, 260	17.995	108, 558	0	ñ	0	0	n i		n
	1, 986	iř	600	9, 150	- 5	6		11.712	176 513	1.100	16, 775	161, 838	Ť	- 6	· · · · · · · · · · · · · · · · · · ·	Ö			<u>`</u>
	1. 986	155	600	91, 500	۱۱	Ď		1.712	2, 279, 912	1. 100	173,088	2, 106, 824	Ō	ň	ň	Ö	Ň	ļ	, <u>-</u>
 	1, 300 1, 991	519	600	1, 689, 570	0	329, 248	1, 340, 323		5, 153, 410	1, 170		4, 850, 087	- ŏ	635, 163	Ď	ŏ	635, 163		/ <u>*</u>
53.00	2,008	313	12, 558	1, 403, 310	1,270	943,410	\$, 140, 163	3.077	9, 199, 110	1, 110	200, 410	1,000,000	3. 167	3,5,1,5					<u>"</u>
	2,000	7-272	2,010	56 545 544	1,410	5, 804, 951	80, 879, 988		109, 024, 168		F03 600 6	104, 985, 571	41.35	44, 171, 959		22 712	44, 148, 627		
Sua 3		9, 882		86, 675, 938		5, 504, 331	90, 010, 300	<u></u>	103,024, 100		4, 030, 331	101, 303, 371	ļ	41, 111, 333		23, 333	44, 140, 041	l	; -1
									 				 		<u> </u>			<u> </u>	
77. 24		2 255	2 415		A 848	600 000	1 632 656		B 815 888	··· à-	0	3, 010, 000	2, 450	2, 510, 000	0	0	2,510,000		
53.00	2,008	1,000	5, 840	5, 270, 000	1, 210	635,000	4, 635, 000	1, 690	3,010,000	0	0		2, 130	2, 225, 000	- 0	- 0	2, 225, 000		<u>×</u>]
54.00		1,000		8, 435, 000	0	0		4, 330	4,530,000	0	0		1.880	1, \$90,000	- 0	0	1. 590. 000		
55.00		1,000		13, 710, 000	0		13, 675, 000	4, 730	4, 730, 000			4, 530, 000		1, 425, 000			1, 425, 000		- 0
56.00	 -↓	1,000		14, 055, 000	70		14,020,000	4, 130	4, 630, 000	0	. 0		1,500	3, 525, 000		<u> </u>	3, 525, 000		<u>%</u> -l
57.00		3,000		35, 580, 000	ļ		35, 580, 000		19, 695, 000	0	0	19, 695, 000				0		I	
60.00				14, 300, 000			14, 300, 000	8,600	5, 725, 000	0			1,000 1,900	1, 450, 000		0	1, 450, 000		<u> </u>
61.00		1,000		12, 400, 000			12, 400, 000	2,850	3,040,000	. 0	. 0	3, 940, 000		2,010,000		<u>-</u>	2,010,000		
82.00			7, 080		L			3, 230		0			2, 120	11 440 440		l	** *** ***		
Sua. 4		9,000		103, 750, 000		705,000	103, 045, 000		45, 360, 000		V	45, 360, 000	 -	14, 835, 000		0	14, 835, 000		<u> </u>
]																		ļ	
1										1 1-1									
62.00		10	7, 140	71,400	6, 430	64, 300	7, 100	3, 180		3, 180	31,800	0			1,040	10, 400	0	1,040	10, 490
62.01		1, 990	7, 140	12, 079, 300	8, 430	11, 372, 850		3, 180		3, 180	6, 268, 500	0	1,040	2,069,600	1,040	2,069,600	0	1,040	3, 492, 450
61.00		3, 000	5,000	9, 960, 000	5,000	9, 960, 000	0	3, 120		J , 120	9, 180, 000	0		3, 060, 000		3,050,000	<u>0</u>	2, 470	5, 205, 000
67.00		2,000	1,640	3, 350, 000	1,640	3, 350, 000	<u> </u>	3,000		3,000	5, 700, 000	0	1,000	1, 940, 000	1,000	1, 940, 000	0	1,000	1, 940, 600
69.00		14, 900	1,710	12, 739, 500	1,710	12, 739, 500	0	2,700	20, 115, 000	2,700	20, 115, 000	0		7,003,000	940	7,003,000	. 0	940	7, 003, 009
83, 90			0			1		0	l	0			0		0				
Sun 5		21, 900		38, 200, 200		37, 485, 650	710, 550		41, 295, 300	·	41, 295, 300	0		14, 083, 000		14, 083, 000	0	l	17, 650, 850
					l	l			. :-	<u> </u>		<u> </u>	ļ.,		<u> </u>			<u> </u>	
L-16					1			L		L	l		L	L :	L	l		ļ	
1					L			L					ļ						ļ!
Sum. I		12, 500		20, 842, 500		20, 842, 500	0		21, 750, 000		21, 750, 000	. 0		8, 000, 000		8,000,000	0		8,000,000
Sun 2		39, 320		255, 832, 700		224, 701, 959			115, 674, 200	L		58, 600, 700	L	23, 944, 700		14, 944, 700	9,000,000	L	888, 500
Sites 3		9, 882		86, 675, 938			80, 870, 988		109.024.168			104, 985, 571	L	44, 171, 959	i	23, 333		<u> </u>	0
Sun. 4		9,000		103, 750, 000			003, 045, 000		45, 360, 000			45, 360, 000	1	14, 835, 000			14, 825, 000		0
Sers. 5		21, 900		38, 200, 200		37, 486, 650	713, 550		41, 295, 300		41, 295, 300	0	1	14, 053, 000	L	14,083,000	C.		17, 650, 850
Total		92, 602		505, 301, 338		289, 541, 051	215, 760, 288		B33, 103, 668	L	124, 157, 397	208, 946, 271	1	105, 034, 659	L	1 37, 051, 033	67, 983, 627	1	26, 339, 350

| Total Excavation Vol. 969, 779, 016 | DRY 492, 690, 186 | WET 477, 088, 830



Route III (Route 15 + Miraflores +Third Lock)
Route IV (Route 15 + Gatun + Miraflores + Third Lock)

Study Case	Route	W. Level	No. of Lifts	No. of Lanes	Ship Size (1000 DWT)	Canal Size (m)
L-3	TTI	55'	1	2	100	301 x 18.7
6	III	55 '	1	2	150	301×20.9
9	III	55'	1	. 2	250	399×24.2
11	IV	55 '	1	2	100	301×18.7
14	īv	55 '	1	2	150	343×20.9
17	ΙV	55 '	1	2	250	399×24.2

Layout of Low Rise Lock System for Group B Study Cases (55')

Ir-3 Calculation Table of Excavation Volume

E				D. 3 b.			 		Soft Bo	· k				Earth	:		Mad	
Station				Hard Roc		Dry V2	м	Yo	Ret Al	Tet VI	Dry V2	Ao	Vo	Yet AL	Vet VI	Dry V2	٨٥	Yo
io.	(12)	lo l	Yo	Ket Al	Ret YI	- Pry 12		6, 357, 000	KCT VI	6,357,000		0	2, 652, 000	Ü	2, 852, 000	Ó	0	2,652,000
-10, 80	7, 800	0	0	- 01		<u>-</u>	- 0	6 350 000	1 650	4,020,000	2, 240, 000	680	2, 840, 000		2, 840, 000	Ð	680	2, 880, 000
-1,00	4,000	0	940,000	0	940,000	0	1,630	6, 260, 000	1, 630	4,020,000	2, 210, 000	740	0	740	0	ŏ	760	
1.00	0	470	0	470	0	0	1,500	U 0	380		A 310 000	740	5, 492, 000	110	5, 492, 000	ň		5, 532, 000
Sun, 1	11,800		940,000		940,000	0		12, 617, 000		10, 377, 000	2, 240, 000		3, 432, 000		3, 332, 000	<u>"</u>		3, 332, 000
												I				ļ		
1	1						17.1					·						
1.00	50	470	93, 750	470	35, 500	58, 250	1,500	120, 750	380	22, 500	\$8, 250	1,500	\$9,500	0	<u>0</u>	69,500	0	<u>U</u>
1.05	1, 150	3, 280	3, 772, 000	950	1, 092, 500	2, 619, 500	3, 330	3, 829, 500	520	598, 000	3, 231, 500	1, 280	1, 472, 000	0	D	1, 472, 000	0	0
2, 20	110	3, 280	32 800	950	9, 500	23, 300	3, 330 3, 330	33, 300	520	5, 200	28, 100	1,280	17, 800	. 0	. 0	17, 800	0	0
2.21	190	3, 280	623, 200	950	180, 500	442, 700	3, 330	\$32,700	520	98, 800	533, 900	2, 280	433, 200	0	0	433, 200	0	G.
		3, 280	32, 800	950	9, 500	23, 300	3, 330	33, 300	520	5, 200	28, 100 1, 657, 900	2, 280	17,800	0	0	17, 800	. 0	0
2.40	10		1, 935, 200	950	560, 500	1, 374, 700	3, 330	1, 964, 700	520	305, 800	1,657,900	1, 280	755, 200	0	0	755, 200	0	0
2.11	590	3, 280			1 020 000	17, 640, 000	2 730	6, 930, 000	520	520,000	6, 410, 000	1, 280	3, 800, 000	0	0	3, 800, 000	. 0	Ō
3.00	2,000		18, 660, 000	950	1, 020, 000	3, 827, 500	3,600		0	375, 900	900, 000	2, 520	782, 500	Ö	152, 500	630,000	0	155,000
5.00	500	15, 380	3, 845, 000	70		3,021,300	1,500		1,500	1, 792, 500	000,000	610	\$15,000	610	915,000	0	620	930,000
5.50	1,500	0	<u>v</u> _	<u> </u>	0			3, 705, 000	890	3, 705, 000	0	610	1, 830, 000	610	1, 830, 000	0	620	1.860.000
7.00	3,000	0	0	0	0		890			10, 320, 000	0	610	3, 720, 000	610	3, 720, 000 2, 480, 000 3, 075, 000	O.	620	3, 780, 000
10.00	6,000	0	5, 730, 000	0	5, 730, 000	0		10, 320, 000			<u>-</u>	630	2, 480, 000	630	2 480 000	ě	610	2, 520, 000
16.00	4,000	1, 910	5, 600, 000	1,910	5, 600, 000	0	1,880	6, 780, 000	1,000	6, 760, 000			2 025 000	610	1 025 000	<u>ŏ</u>	620	3, 125, 000
29.00	5,000	890	5, 025, 000	890	5, 025, 000	C	1,520	8, 425, 000		8, 425, 000	0	610	3,075,000		3 100 000	<u>-</u>		3, 123, 000 3, 150, 000
25.00	5,000	1, 120	3, 300, 000	1, (20	3, 300, 000	0	1,850	9, 075, 900		9, 075, DOG	0		3, 100, 000	520	3, 100, 000	}×	630	3, 780, 000
30,00	6,000	200	4, 140, 009	200	4, 149, 000	0		10, 920, 000		10, 920, 000	0		3, 720, 000	520	3, 720, 000	1 <u></u>	630	
36.00	3,000		8, 325, 000	1, 189	8, 325, 000	. 0	1,860	2, 865, 000	1,860	2, 865, 000	0	620	975,000	620	930,000	45,000	530	945,000
39.00	4,000	4 370	29, 860, 000	4, 370	13, 500, 000	16, 160, 000	50		50	459,000	3, 050, 000	30		. 0	120,000	2, 220, 000	0	1
43.00	1,000	10, 460	0	2, 380	0	0	1,710	0	180	0	0	1, 140	0	60	0	0	0	0
Sura. 2		10, 100	90, 774, 750	-, ***	48, 545, 500			72, 201, 750		58, 254, 000	15, 947, 750		29, 503, 000		20, 042, 500	9, 460, 500	.l	20, 245, 000
SUR Z	145,000		30, 114, 130					2, 2, 2, 1, 1, 0				I	1	L		l		<u> </u>]
ļ				 								1		1		1	1	
	1 . Ann	10 155	0.000.000		2, 125, 000	è aun non	1,710	1, 750, 000	180	145,000	1, 805, 000	1, 140	1, 140, 000	60	30,000	1, 110, 000	0	0
43.00		10, 460		2, 380				1, 850, 000	110	140,000	1,710,000			0	20,000		0	0
44.00	1,000		8, 930, 000	1, 870	1, 910, 000		1,790	1,000,000	170	85,000	2, 130, 000	1, 240		40	20,000		Ŏ	<u> </u>
45,00	1,000		13, 565, 000	1,950	1, 965, 000	11, 600, 600	1, 910	2, 215, 000		63,000	2, 235, 000	1.860	1,600,000	0			l ŏ	ň
46,00	1,000	15, 940	15, 865, 000	1, 980	1, 910, 000	13, 925, 000	2, 520	2, 235, 000	0				1,380,000	- ŏ	0		Ö	6
47.00	1.000	14, 799	15, 375, 000	1, 900		13, 435, 930	1,950	1, 980,000	0	0	1, 980, 000	1, 340			- 0		1 0	- 6
48.00	1,000	15, 950	17, 910, 000	1, 980		15, 795, 000	Z, 010		0		2, 145, 000		1,530,600	. 0		1, 405, 000	 	- 6
49.00	1,000	19, 850	15, 420, 000	2, 250		12, 879, 000	2, 280	2,090,000	0	95,000	1, \$95, 000	1, 640	1, 440, 000	0				
50.00	1.000		14, 125, 000	2, 859	3, 045, 000	11,680,000	1, 300	2, 300, 000	190	185,000	2, 115, 000		1,520,000	70	65,000		0	0
51.00	1,000	17, 279	20, 605, 000	3, 249	2, 750, 000	17, 845, 000	2,700	2, 390, 000	180	90,000		1,800	1,620,000	60	30,000		0	. 0
52.00	1,000		24, 550, 000	2, 280	2,020,000	22, 180, 000	2.080	2, 285, 000	0	0	2, 285, 000	1,440	1,540,000	0	0	1,540,000	0	- 0
53.00	1,000	25, 160	0	1, 860	n	Ō		0	0	0	0	1, 840	0	0	<u> </u>	0	0	0
Son. 3	10,000	£3, 100	155, 410,000	1,000	22, 420, 000			21, 240, 000		740,000	20, 500, 000	1	14, 519, 000	T.	200,000	14, 310, 000		0
208. J	10,000		133, 110, 000	 	22, 410, 000	200, 000,000						1					1	
<u> </u>	 						 		· -				 		· · · · · · · · · · · · · · · · · · ·			
	1	05 165	44 200 000	-1-650	800 000	22, 570, 000	2, 490	2, 760, 000	0	0	2, 760, 000	1, 540	1, 880, 000	. 0	0	1,860,000	0	0
50.00	1,000	25, 100	23, 500, 000	1,850			5,030	2, 685, 000	 	ŏ	2, 685, 000				Ô		0	0
54.00	1,000	21, 840	15,005,000	0	0	15,005,000			ŏ	Ö	1, 157, 500				ī	790,000	Ô	0
55, 00	500	8, 170		0	0	3, 595, 000	2, 340	1, 157, 500		- 0					- X	760,000	Ö	
55.50	500	1,810		0	0	3,090,000	2,290	1, 110, 000	0					Ö	160,000		- 	
55.00	1,000	4,550		.0	365, 000	6, 665, 000	2,150	2, 390, 000	0		2, 145, 000				200,000		1 8	
57,00	1,000	9,510		730	1,015,000	5, 435, 000	2,630	2, 180, 000	490	630,000			1, 140, 300	320	50,000	920,000	-	
58.00	1,000	3, 390	5, 270, 000	1, 300	1, 190, 000	4, 650, 000	1, 730	1,750,000	770		1, 280, 000			80	20,000	1, 050, 000	0	
59.00	1,000	3, 390 7, 150	8, \$90, 000	1,080	2, 690, 000	6,000,000	1,770		170		1, 520, 000				35,000	1,000,000	1 8	
69.00		10, 230		4, 300	2, 815, 000	8, 289, 000	1,850		410		1,545,000		1,075,000	50	25,000	1,050,000		
81.00		11, 950	7, 665, 000	1, 330	1, 430, 000	6, 235, 000	1, 850		0	535,000	1, 395, 000	1,100			35,000		0	1 0
62.00		3, 170	Ö	1,530	0	0	2, 219	0	1,070	1 0	0			70	0			
See 4	9,000		91, 790, 000		10, 435, 000	81, 355, 000		19, 522, 500		2, 375, 000	17, 147, 500	J	12, 335, 000	 	1 505,000	11, 890, 000	0	1 0
1	1-21-7		,,,,,,,,,,	l			I			L				1	ļ	<u> </u>		
1	1			 					1			1	1	L	l	1	_	<u> </u>
62,00	2,000	3,370	7,740,000	1,530	3, 830, 000	3, 910, 000	2, 210	3,010,000	1.070	1,070,000	1, 349, 000	950	1,940,000	70	70,000	1, 870, 000	0	
	3 000		6 765 000		3 550 000	3, 105, 000	800	3,075,000		1,875,000						1, 485, 000		
\$4.00		4, 370	6, 765, 000	2, 300	3, 660, 000	3, 103, 000	1, 250	5, 370, 000		5, 370, 000	1,200,000							
67.00		140	420,600	. 140	420,000	·		891,000	540		1 0							
73.00		0		0	ļ <u>Ņ</u>	Ĭ <u>*</u>	540	031,000		631,000	 		1, 7,2, 303	- V70		1 1	1	
76.30		0	Ò	0	0	1 - 0/2 42 0	0	1 22 3/4 4/2	10	1 30 CM	·		9, 372, 500		6, 017, 500	3, 355, 000		6, 123,000
Sun. 5	14, 300	l	14, 925, 000		7, 910, 000	7, 015, 000		12, 346, 000	↓	9, 205, 000	3, 140, 000	'	1 3, 316, 300	1	4,011,000	9, 434, 660	1	2,,,,,,,,,,
				L	L	!		!	Ļ	ļ	 		1	+	 	+	+	
L-3			1		l	1	<u> </u>	<u> </u>	 :	 	ļ				ļ	 	1	+
T	1			1			L	l	<u> </u>		L	1	1		1			1
Sun. 1	11, 800	1	\$40,000	1	349,000	0	1	12, \$17, 000			2, 249, 000		5, 492, 000		5, 492, 000			5, 532, 000
Sun. 2	42,000	·	90, 174, 750	1		42, 229, 250	1	72, 201, 750	I		15, 947, 750		29, 500, 000		20,042,500	9, 460, 500	<u> </u>	20, 245, 000
Strt. 3		1	155, 410, 000	t		132, 990, 000	1	21, 240, 000	1		20, 500, 000		14, 510, 000		200,000	14, 310, 000	<u> </u>	0
			91, 790, 000	1		81, 355, 000	1	19, 522, 500	1		17, 147, 500		12, 395, 000		505,000	11, 890, 000		0
Sta 1				 	7 010 000	7, 615, 600	 	12, 345, 000	1		3, 140, 000		9, 372, 500		8, 017, 500	3, 355, 900	T	6, 129, 000
	14, 300	 	14, 625, 000				-	127, 927, 250	 		58, 975, 250		71, 272, 500	1	32, 257, 000	39, 015, 500	1	31, \$05,000
Ictal	87, 100		D53, 839, 750	1	1 30, 250, 500	263, 589, 25 0	ــــــــــــــــــــــــــــــــــــــ	y 21, 361, 630	<u> </u>	10, 332, 600	1 20, 213, 230		1 1 2 2 1 2 3 5 7 1	·	1 4 4 5 6 0 1 0 0 0	22, 214, 300		, , , , , , , , , , , , , , , ,

Total Excavation Vol. 594, 945, 500 DBY 361, 580, 000

I-6 Calculation Table of Excavation Volume

									~					C14		·····	Mad	
Station	Dis		 	Hard Roc	k				Soft Roc		N 199	60		Earth Wet Al	Tet Vi	Dry V2	No	Yo
No.	(s)	lo l	Yo	Wet At	Wet Vi	Dry V2	No .		Wet AL	Wet VI 9, 841, 500	Dry V2	- 00	Yo 3, 199, 500	461.01	3, 199, 500	0		3, 199, 500
-11, 10	(s) 8, 100	0	0	0 1	0			9, 841, 500	- 100		——	750	3, 220, 000	790	3, 220, GOO	Ŏ	790	3, 220, 000
-3.00	4,000	0	2, 050, 000	0	\$,060,000	0	2, 430	9, 660, 000	4, 9,00	9, 660, 000		820	3,110,000	820	0, 100, 440		820	0
1.00	0	1,030	0	1,030	0	01	2, 400		2, 400	19, 501, 500		620	6, 419, 500	020	6, 419, 500	ā		6, 419, 500
Sua 1	12, 100		2,060,000		2, 080, 000	Ö		19, 501, 500		15, 501, 500		-	0, 413, 300		4, 113, 300	<u>*</u>		4, 1,03, 222
			1, 1															
											100, 500	1,640	85,000	0	0	85, 000	·· · · · · · · · · · · · · · · · · · ·	Ü
1,00	50	1,030	158, 250	470	35, 500	122, 750	2, 400	123,000	380	22,500			2, 024, 000	0		2, 024, 000		Ö
1.05	1. 150	5, 300	6,095,000	950	1, 092, 500	5, 002, 500	2, 520	2, 898, 000	520	598,000	2, 300, 000	1,760		0		22, 600	- 0	<u>ŏ</u>
2.20	10	5, 300	53, 000	950	9, 500	43, 500	2, 520	25, 200	520	5, 200	20,000	1,760	22, 600		- 0	524, 400	-	ŏ
2.21	190	5, 300	1,007,000	950	189, 500	826, 500	2, 520	478, 800	520	98, 800	380,000	2, 760	524, 400	0	v	22, 600	- 5	ŏ
2. 10	10	5, 300	53,000	950	9, 500	43, 500	2, 520	25, 200	520	5, 200	20,000	2,760	22, 500		0	1, 038, 400	ŏ †	- š
2. 11	590	5, 300	3, 127, 000	950	560, 500	2, 566, 500	2,520	1, 456, 800	520	308,800	1, 180, 000	1, 760	1,038,400	0		4, 400, 000		
3,00	2,000	5, 300	23, 380, 000	950	1,000,000	22, 380, 000	2,520	6, 300, 000	520	520,000	5, 780, 000	1, 750	4,400,000			550,000		177, 500
5.00	500	18, 080	4, 620, 000	50	112, 500	4,507,500	3, 180	1, 465, 000	Ü	520,000	945, 000	2,640	835,000	0	175,000	000,000	710	1,065.000
5,50		400	300,000	400	300,000	0	2, 080	2, 857, 500	2,080	2, 857, 500	0	700	1, 050, 000	700	1,050,000	- ŏ		2, 130, 000
7,00	3,000		930,000	0	930,000	0	1,730	5, 715, 000	1, 7,30	5, 715, 000	0	700	2, 100, 000	700	2, 100, 000	ő	- 418	4, 320, 000
10.00	6,000	620			10,710,000	0	2,080	12, 540, 000	2,080	12, 540, 000	0	700	4, 260, 000	700		0		2, 880, 000
16.00	4,000	2,950		2,950	8, 980, 000	0	2, 100	8, 200, 000	2, 100	8, 200, 000	0	720	2,840,000	720				3, 575, 000
20.00	5,000	1.540				Ö	2,000	10, 325, 000	2,000	10, 325, 000	0	700	3,525,000	700		0	710 720	3, \$00, 000
25.00	5,000	2, 100	7, 950, 000			Ö	2, 130	10, 650, 000		10, 650, 000	0	710	3,550,000	710		'	720	4, 350, 000
30, 00	6,000		9, 900, 000	1.080	9, 900, 000	Ō		12, 780, 000		12, 780, 000	0	710		710			730	1, 095, 000
	3.000		12, 885, 000		12, 735, 000	150,000	2, 130	3, 720, 000	2, 130	3, 350, 000	380,000	720	1, 380, 000	720		300,000		1,095,000
35.00		5, 370			17, 900, 000		350	\$, 520, DOO	110	620,000	5, 900, 000	200		0	200,000		<u>0</u>	
39.00	4, 000 0		30,000,000		17, 300, 000	0, 100, 000	2, 310	0	200	8	0	1, 280	0	100	0	0	0	
43.00		12,630	137, 248, 250	2, 000		\$5, 742, 750	-,,,,,,	86, 109, 500		69, 124, 000	15, 985, 500		34, 907, 000		23,070,000	11, 837, 000		23, 192, 500
Sun. Z	42,000	 	B 21. 540, 530		21, 203, 200	-0, , ,,,,,,,,,						L	l			L		
ļ	 	 		+	 	<u>-</u> -		_					l			I		
1	1 664	15 645	11 200 000	2, 680	2, 405, 000	8, 855, 000	2,910	2, 495, 000	200	155,000	2, 340, 000	1, 280	1, 300, 000	100	50,000		0	0
40.00	1,000	12, 630	11, 260, 000		2, 205, 000	9, 285, 000	2,080	2, 135, 000	110	140, 000	1, 995, 000	1,320	1, 389, 000	0		1, 360, 000	0	
44,00	1,000		11, 490, 000	7 200	2, 280, 000		2, 190	2, 355, 000	170	85,000	2, 270, 000	1,440	1,740,000	40	20,000		0	
45.00	1,000		16, 950, 000	2,280	2, 230, 000	17, 295, 000		2, 375, 000	Ö	0	2, 375, 000	2,040	1,780,000	0	0		O .	0
46, 00	1,000	20, 810		1 2, 460	2, 205, 000	16, 585, 000	2, 230	2, 255, 000	Ŏ	. 0	2, 255, 000	1.520	1,550,000	0	0		0	0
47.00	1,000	18, 240			2, 400, 000	19, 355, 000	2, 280		Ö	ō	2, 340, 000	1,600	1, 620, 000	D	0		0	0
48.00	1,000	19, 340			Z, 400, 000	16, 530, 000		2, 285, 000	ŏ	95,000	2, 190, 000	1, 540	1, 505, 000	0	35,000		0	0
49,00	1,000		19, 425, 000		2 510 000	14, 360, 000			190	185,000	2, 385, 000	1, 430	1, 590, 000	79	65,000		0	U
50.00	1,000	14, 680			3, 310, 000	11, 300, 000	2 070	2, 655, 000	180	90,000	2, 575, 000	1, \$50	1, 745, 000	60	30,000		0	0
51.00	1,000	22, 260				22, 185, 000 26, 120, 000		2, 545, 000	0	0.,555	2,545,000	1,540	1, 680, 000	Ö	0	1, 680, 000	. 0	0
52,00		28, 500		Z, 59U	2, 330, 000	20, 120, 000		2,310,000	Ö	ň	0,000,000	1,820	0	0	0	0	0	0
53.00			0		0		2,130	24, 020, 000	—- <u>-</u> -	257 000	23, 270, 000	T-1	16, 030, 000		220,000	15, 810, 000		0
Sun. 3	10,000	ļ	491, 495, 000		25, 555, 000	165, 840, 000		24,020,000		120, 200	20, 210, 020		1	1 ——			L	
	L			·			ļ.——			<u>_</u>		1	i					l
		1	l				1	9 000 000	0	0	2, 960, 000	1,820	1, 985, 000	0	0	1, 985, 000	0	0
53.00	1,000	28, 400	27, 365, 000	2,070	1,035,000	26, 330, 000	2, 730	2, 980, 000	0	 	2, 885, 000		1, 950, 000	Ō			0	0
54.00	1,000	26, 330	18, 280, 000	0		18, 280, 000	3, 190		 	- 6	1, 305, 000	1 330	885,000	Ŏ			0	0
\$5,00	500	10, 230	4, 995, 000	0			2, 580	1, 305, 000		0		1,770	857, 500	1 - ò			0	Ó
55.50	500	9, 750	4, 072, 500	_0				1, 267, 500	0	245,000		1,660		1 6	i č		0	0
56.00			10, 275, 000		479,000	9, 805, 000	2, 430	2, 570, 000	450	£13,000	1, 885, 000			320	200,000		0	0
57.00				940	1, 220, 000	8, 160, 600	2,910	2, 515, 000	770	470,000		1, 020	1, 160, 000	.80		1, 110, 000	0	0
58.00		4, 950			1, 530, 000	5, 950, 000			170	290,000		1,300	1, 250, 000	20	35,000		0	0
59.00	1.000	10,010	11, 200, 000	1,360	2, 975, 000	8, 225, 000			410	295, 000	1, 845, 000	1, 220	1, 255, 000	50			0	
60.00	1,000	12, 390	13, 310, 000	1,599		10, 215, 000	2, 150		110			1,290	1, 240, 000				0	
61.00	1,000	11,230	9, 725, 000	1,600	1, 010, 000		1, 950		1,070	333,300	3, 123, 000		1,210,000	70			0	
62.00		5, 220		2,030	0			1 22 012 100	1,010		19, 672, 500	1 "."	13, 902, 500		345,000	13, 557, 500	0	0
Sum. 4	9,000	<u> </u>	116, 182, 500	<u> </u>	12, 240, 000	103, 942, 500	1	22,047,500		4.313.000	13.015,300	1		+	1	T		
			1	<u> </u>	 _	<u> </u>	!	 	+	 		+	1	1	1	T		` <u> </u>
					1	 	1-2		1 030	1, 079, 000	2, 800, 000	1, 190	2, 240, 000	70	70,000	2, 170, 000	0	0
62.00	2,000	5, 220	11, 430, 000	2,030				3, 870, 000	1,070		1, 550, 000						ō	1, 170, 000
64, 00	3,000	5, 210	10, 485, 00	2,800	5, 370, 000	5, 115, 000	1, 300		0		1, 330, 000		4, 530, 000				780	
67.00	\$,000			780						9, 360, 000	- X						770	
73.00				190						5, 135, 000	<u> </u>						Ť	0
79. 50			1) 0					0	1.0.3-4 - 0	<u> </u>				8, 195, 000			8, 322, 500
Strat 5			25, 442, 50) [13, 727, 500	11, 715, 000	1	23, 525, 000	ļ.:	18, 775, 000	4, 750, 000	·	11, 940, 000	' 	1 2 13 4 00	-1-11-1-100	1	1
	-1	-1			1		1	J	1	 _	1	1	-		 	-	-1	
L-6			1		T		1	J	1		ļ: .:	<u>-</u>	 				1	
12.0	1		 	1				L		I	ļ	1		,——	E 410 50	. 		6, 419, 500
Sun. 1	12, 10	<u> </u>	2, 060, 00	<u> </u>	2, 050, 000	0	1	19, 501, 500		19, 501, 500	1 	4	6, 419, 50		6, 419, 50	11,837,000		23, 192, 500
Sun 2			137, 248, 25			55, 742, 750		86, 109, 500		59, 124, <u>000</u>	16, 385, 500	!	34, 307, 00					
Sun 3			191, 495, 00			185, 840, 000		24, 020, 000		750,000	23, 270, 000	!	16, 030, 00			0 15,810,000		1
Sum. 4	9,00		116, 182, 50			103, 942, 500		22, 047, 500		1 2, 375, 000	19, 672, 500	Ц	13, 902, 50			0 13,557,500		8, 322, 500
			25, 412, 50			11,715,000		23, 525, 000		18, 775, 000	4, 750, 000	<u> </u>	11, 940, 00		8, 195, 00	3, 745, 000	} 	37, \$34, 500
Sua 5	90, 60		472, 428, 25			037, 240, 250		175, 203, 500		110, 525, 500	54, 678, 000	<u>.L</u>	83, 199, 00	<u>, I</u>	1 38, 249, 50	0 44, 949, 500	<u>''</u>	1 31, 334, 300
Torsi	1 20,00	<u>'</u>	415, 450, 63	<u>~1</u>	F20 100,000													

 Rotal Excavation Vol.
 768, 765, 250

 Dry
 446, 887, 750

 21, 80, 500
 22, 80, 500

L-9																	1	
Statten	Dis			Hard B	ock		T		Soft F	lock	·	I		Forth			Kad	
No.	(0)	ho	Və	Ret Al	Wet VI	Dry V2	,ko	Yo	Yet Al	Tet YI	Dry V2	Ao .	Yo	Wet Al		Dry V2	lo.	Vo
-11.50	8, 500	0	0	0	0		Ó	10, 327, 500		10, 327, 500		0	3, 357, 500	0		Ö	0	3, 357, 500
-9.00	4,000	0	2,060,000	0	2,060,000	0	2,430	9, 650, 000	2, 430	9, 560, 000	. 0	790	3, 220, 000	790	3, 220, 000	- 0	790	3, 220, 000
1.00	0	1,000	0	1,030	0	0	2,400	0	2, 400	0	<u> </u>	820	0	820	0	0	820	0
Sun. 1	12,500		2,050,000		2, 060, 000	0	<u> </u>	19, 987, 500		19, 987, 500	. 0		6, 577, 500		6, 577, 500	0	ļ	6, 577, 500
			ļ	ļ		ļ	 	ļ	├						l		ļ	
1.00	\$0	1.030	158, 250	470	35, 500	122, 750	2, 400	123,000	280	22,500	100, 500	1, 540	85,000		0	85,000	0	0
1,05	1.150	5 300	6,095,000	950	1, 092, 500	5,002,500	2, 520	2, 898, 000	520	598,000	2, 300, 000	1,760	2, 024, 000	0	i Š	2,024,000	ő	0
2. 20		5, 300	53,000	950	9,500	43, 500	2, 520	25, 200	520	5, 200	20,000	1,760	22, 600	0	Ô	22,600	Ü	Ŏ
2. 21		5, 300	1,007,000	950	180, 500	826, 500	2, 520	478, 800	520	98, 800	380,000	2,750	524, 400	0	0	524, 400	0	0
2.40	10	5, 300	53,000	\$50	3, 500	43,500	2,520	25, 200	520	5, 200	20,000	2,760	22, 690	0	0	22, 600	0	Ò
2.41	590	5, 300	3, 127, 000	\$50	560, 500	2, 565, 500	2,520	1, 486, 800	520	206, 800	1, 180, 000	1, 760	1,008,400	0	0	1, 038, 400	0	Đ.
3, 60		5, 300	27, 910, 000	950		28, 850, 000	2,520		520	520,000		1,760	4, 600, 000	Ŏ	0	4, 600, 000	-0	0
\$,00		22, 510	6, 021, 500 1, 680, 000	110	1,689,000	5, 625, 000 0	4,050 2,440	1, 522, 500 3, 552, 500	2, 440	\$10,000 3,652,500	1,012,500	2, 840 820	\$15,000 1,230,000	820	205, 000 1, 230, 000	710, 000 0	830	207, 500
5. 50 7. 00	1,500 3,000	1,500 740	3, 930, 000	740	3, 936, 000	Ö	2, 430	7, 290, 000	2, 430	7, 290, 000	Ö	820	2, 460, 000	820	2, 460, 000	0	830	1, 245, 000 2, 490, 000
10.00	8,000	1.880	19, 380, 000	1,880			2, 430	14, 790, 000		14, 790, 000	- 0	820		820	4, 980, 000	ŏ	830	5,040,000
16.00	4.000	4, 750	14, 950, 000			Ö		10, 040, 000			ŏ		3, 329, 000	840	3, 320, 000	Ö	850	3, 369, 000
20.00	5,000	2,700			16, 175, 000	0	2, 520	12,500,000	2,520	12, 500, 000	0	820	4, 125, 000	820	4, 125, 000	0	830	4, 175, 000
25.00	5,000	3, 770	15, 325, 600	3,770	16, 325, 000	0		12, 450, 000	2, 480	12, 450, 000	0	830	4, 175, 000	830	4, 175, 000	0	840	4, 225, 000 5, 100, 000
30.00	6,000	2,760			19, 170, 000	0	2,500	14, 970, 000	2,500		0		5,010,000	840	5,040,000	0	850	5, 100, 000
35.00	3,000	3, 530			16, 905, 000	2, 025, 000		4, 635, 000		3,900,000	735,000	840	1, 920, 000	840		660,000	850	1, 275, 000
39.00	4, DOC		17, 900, 000		24, 140, 000	23, 760, 000	500	5, 340, 000	110 360	940,000	4, 400, 000	1, 280	3, 440, 000	100	200,000	3, 240, 000	0	0
43.00 Sum 2	12,000	4, 960	203, 480, 750	4, 430	136, 615, 500	66, 865, 250	2,070	\$8, 897, 000	16.	82, 699, 000	16 191 000	1,200	39, 922, 000	100	26 995 000	12, 927, 000		27, 117, 500
SUL Z	12,000		202, 100, 130		210, 013, 300	00, 000, 230	 	30, 037, 000	 	32, 933, 600	10, 130, 000	-	33, 354, 000		10, 333, 000	14, 341, 400		A1 + 111 - 400
- · · ·		77.	*	 		· · · · · · · · · · · · · · · · · · ·		1.4.1		· · · · · · ·			:	<u> </u>				
43.00	1,000	14, 550	14, 305, 800	4, 430	3, 465, 000		2,070		360	235,000		1,280	1, 470, 600	100	50,009		0	0
44.00	1,000	13,650	15, 335, 000			12, 735, 000	2,540		110		2, 415, 000		1, 685, 000	0	20,000			0
45.00	1,000		21, 540, 000		2, 600, 000	19, 340, 000	2,570		170		2,550,000		1, 915, 000	40	20,000		0	0
46.00	1.000	26, 860	25, 105, 000	2, 500	2,500,000	22, 605, 000	2,700	2, 660, 000	<u>Q</u>	0			2,000,000	0	0		0	0
47.00	1,000	23, 350	23, 910, 000		2, 550, 000	21, 360, 000	2,620	2, \$49, 000	0	0			1, 850, 000	0	0		0,0	0
48,00 48,00	1,000	24,4/0 (28, 940, 000 24, 770, 000		2, 750, 000 3, 370, 000		2, 560 2, 670	2, 665, 000 2, 605, 000	0	95,000			1,745,000	0	35,000		0	ŏ
50.00	1,000 1,000	20, 110	24, 505, 000			20, 285, 000	2.540		190	185,000			1, 925, 000	70	65,000		Ŏ	6
	1.000	28.880	31, 645, 000		3, 800, 000	27, 845, 000	3, 240	2, 970, 000	180	\$0,000			1, 980,000	60	30,000		Ō	ď
52.00	1,000 1,000	14, 410	35, 975, 000			33, 275, 000	2,700	2, 850, 000	0	Ô		1.780	1, 920, 000	0	0		0	0
53.00	. 0	37, 540	0	2,400	0	0	3,000	0	0	. 0	0	2, 950	0	0	0	0	0	0
Stra. 3	10,000		244, 430, 000		30, 555, 000	213, 875, 000	<u> </u>	26, 775, 000		830,000	25, \$45,000		18, 310, 000		220,000	18, 690, 000		0
<u> </u>				 	ļ		<u> </u>		ļ		<u> </u>	I						
53.00	1,000	15 F45	24 455 000	2, 400	200 000	33, 655, 000	3,000	3, 230, 000		0	3, 230, 000	9 500	2, 195, 090	0	0	2, 195, 000	0	0
54.00	1,000	12, 170	34, 855, 000 22, 750, 000	2,900	1,200,000		3 460	3, 200, 000	Ü	0	3, 230, 000	2,000	2, 155, 000	ő	0		0	8
55.00		3, 330	5, 535, 000	ŏ	0		3, 468 2, 940 3, 010	1, 487, 500	Ö	ŏ		1 000	1,002,500	ŏ	Ö		ŏ	Ö
55. 50		2, 810	5, 587, 500	Ö	Ō	5, 587, 500	3,010	1, 457, 500	. 0	Ö	1, 457, 500	2,030	987, 500	Ŏ	ő	987, 500	. 0	ă
\$6. DO	1,000	9, 540	14, 950, 000	0	650,000		2, 820	3, C65, 000	0	245,000	2, 820, DOO	1, 920	2, 120, 000	0	0	2, 120, 600	. 0	0
57.00	1,000	20, 360	13, 920, 000		1, 809, 000	12, 120, 000	2, 820 3, 310	2, 910, 000	490	630,000		2, 320	1, 810, 000	320	200,000	1, 610, 000	0	0
58.00	1,000	7, 480	10, 505, 000			8, 485, 000	2,510		270		1, 965, 000	1,300	1, 410, 000	. 80	50,000		0	0
	1,000		14, 715, 000	11,740	4, 420, 000	10, 295, 000	2, 360	2, 285, 000	170	Z90,000	1,995,000	1,520	1, 400, 000	70	12,000	1, 355, 000	0	0
60.00 61.00	1,000	5, 900	16, 785, 000 12, 810, 000			12, 335, 000 10, \$25, 000	2, 210 2, 300	2, 255, 000 2, \$35, 000	410	535,000 535,000	2,050,000		1, 400, 000 1, 495, 000	50	25, 000 35, 000		0	0
62.00		7, 950	12, 030, 000	2,570	2, 103, 000	10, 913, 003	2,970	E 833,000	1.070	333,000	2, 100, 000	1,470	3, 133,000	· 70	33,600	1, 400, 000	Ö	9
	3,000	1, 400	153, 412, 500	4.010		136, 687, 500	-,,,,,	24, 950, 000	1,0,0		22, 585, 000	11.7.0	15, 975, 000		345,000	15, 630, 000	ŏ	Ö
1	-1						i				222.22.12.23	1				- 1		
	[1.1		
		7, 950	16, 520, 000	2,570		10, 500, 000	2,970			1,070,000	3, 640, 000	1, 470		70		2, 800, 000	0	
	3,000		15, 705, 000		8,025,000		1,740	€, 495, 000	1	3, 795, 000			3, 450, 000	0		2, 100, 000	5	
	S, 000		9, 240, 000		9, 240, 000	0		15, 210, 000			0		5, 430, 000	\$00		. 0	\$30	
73.00 1 83.90	10, 900 0		6, 431, 000	1, 180	6, 431, 000	0	Z, 540 0	13, 843, 000	2, 540	13,843,000	<u> </u>	310	4, 859, 500	910	4, 959, 500	0	920 0	
	21, 900	0	47, 895, 000	"	29, 716, 000		l	40, 168, 000	ļ <u>-</u>	33, 918, 000	8, 250, 000	} ^V	18, 709, 500	٠	11, 809, 500	·		11, 959, 000
Scale 2	. 1, 200		71,030,000			44, 240, 440			1	*******	·,,	1	1 v, 1 v 3, 500		******	3, 500, 600	<u> </u>	
L-9				1	l		 		I			t		·				
				1	·		 		T			i		 		<u> </u>		
	12,500		2, 069, 000	1	2, 050, 000	9		19, 987, 500		19, 987, 500	0	L	\$, 577, 500		5, 577, 500	. 0		6, 577, 500
	42.000		203, 480, 750		136, 615, 500			98, 897, 000		82, 853, 000			39, 922, 000			12, 927, 600		27, 117, 500
Sun. 3			244, 430, 000	 		213, 875, 000		26, 775, 000	 		25, 945, DOO		18, 310, 000			18,090,000		
Sun_4			153, 412, 500	⊢		135, 687, 500		24, 950, 000	ļ		22, \$85, 000	I	15, 975, 000	ļ		15, 630, 000		0
Son 5 Total			47, 896, 000	 		18, 180, 000 135, 607, 750	 	40, 168, 000 210, 787, 500	 	33, 918, 000 139, 809, 500		}	15, 709, 500	ļ		4, 900, 000	<u> </u>	11, 959, 000
total	33, 4UU j	لــــا	851, 279, 250	1	£12,011,500	H 22, DUI, 13U	<u>'</u>	KIU, 161, 300	L	g 13, 003, 30U	10, 318, 600	<u> </u>	97, 494, 000	L	1 43, 347, 000	51, 547, 000	ــــــا	45, 654, 000

Total Excessition Vol. 1, 005, 214, 750]
DRY 552, 132, 750
EET 447, 082, 000

L-11		L-1

L-11				7									·····	Facilia			Xad	
Station	Dis (e)	Ao	Yo	Hard Soci	k Wet VI	Dry V2	lo [Yo	Soit Roc Vet Al	Ret VI	Dry V2	М		Earth Wet Al	Vot VI	Dry V2	No	Yo 2, 652, 000
No. -10.80	7, 800	0	9	0	0	0	1,630	6, 357, 000 6, 260, 000	1, 630	6, 357, 000 4, 020, 000	2, 240, 000	680	2, 652, 000 2, 840, 000	0 583	2, 652, 000 2, 840, 000	0	680	2, 880, 000
1.00	4, 000 0	170	940,000	470	940, 000 0	0	1,500	0	380	0 10, 377, 000	2, 240, 000	740	0 5, 492, 000	740	5, 492, 000	0	760	5, 532, 000
Sum. 1	11, 800		940, 000		940,000	0		12, 617, 000		10, 311, 000	2, 210, 000		V, 111, 023		VI 11.11.			
					- 55 550	58, 250	1,500	120, 750	380	22,500	98, 350	1,500	69, 500	0	0	69, 500	0	0
1.00	1, 150	470 3, 280	93, 750 3, 772, 000	470 950	35, 500 1, 092, 500	2, 679, 500	3, 330	3, 829, 500	520	598,000	3, 231, 500 28, 100	1, 280	1, 172, 000 17, 800	Ů	0	1, 472, 000 17, 800	0	0
2,20	10	3, 280	32, 800	950 950	9, 500 180, 500	23, 300 442, 700	3, 330 3, 330	\$3,300 632,700	520 520	5, 200 98, 800	\$33, 900	2,280	433, 200	9	0	433, Z00	0	0
2, 21	190 10	3, 280 3, 280	623, 200 32, 800	950	9,500	23, 300	3, 330	33, 300	520 520	\$, 200 30\$, 800	28, 100 1, 657, 900	2, 280 3, 280	17, 800 755, 200	0	0	17, 800 755, 200	0	<u>0</u>
2.41	590	3, 280 3, 280	1, 935, 200 5, 210, 000	950 950	560, 500 2, 880, 000	1, 374, 700 2, 330, 000	3, 330 3, 330	1, 951, 700 5, 190, 000	520	2, 380, 000	2, 810, 600	1, 280	1, 910, 000	0	630, 000	1, 280, 000	640	640,000 1,920,000
5,00	3,000	1,930	5, 730, 000	1,930	5, 790, 000	0	1,860	5, 580, 000 1, 380, 000	1,860 1,850	5, 580, 000 1, 380, 000	- 0	630 630	1, 890, 000 620, 000	\$30 \$30	1, 890, 000 620, 000	<u>0</u>	640	630, 000
8.00 9.00	1,000	1, 930	965, 000 715, 000	1, 930	965, 000 715, 000	0	900	1, 380, 000	900	1, 380, 000	0	610	620,000 625,000	610 630	620, 000 625, 000	0	640 640	630,000 635,000
10.00	1,000	1, 430	715,000	1, 430	715.000 530,000	0	1,860	1,770,000	1,880	1,770,000 1,770,000	0	630 620	620, GOO	620	\$20,000	Č	530	630,000
11.00		1,060	530,000 720,000	1	720,000	0	1, 860	1, 859, 600	1,860	1, 860, 000 337, 500	0	620 820	620,000 315,000	620 620	520,000 315,000	0	630	630,000 320,000
10.00	500	380 1, 210	337, 500 660, 000	380 1, 210	397, 500 650, 000	0	1, 860 1, 890	937, 500 937, 500	1, 850 1, 890	937, 500	Ū	640	317, 500	640	317, 500	0	650 640	322, 500 640, 000
13, 50 14, 00	1,000	1, 430	1, 295, 000	1,430	1, 295, 000	. 000	1,860 1,860	1, 850, 000 2, 115, 600	1, 850 1, 850	1,850,000 930,000	0 1, 185, 000	0£3 0£3	630, 000 1, 085, 000	630 630	630,000 315,000	770,000	640	320,000
15.00 16.00		1, 160 8, 850	5, 005, 000 9, 110, 000	1, 160	885, 000	4, 425, 000 8, 225, 000	2, 370	2, 415, 000	0	345,000	2, 070, 000	1,540 1,500	1, 520, 000 1, 070, 000	0 420	210,000 530,000	1, 310, 000 \$40, 000	0	325, 000
17.00	1,000	9, 370	6, 555, 000		2, 755, 000 2, 340, 000	3, 800, 600	2, 450 1, 920	2, 190, 000 1, 890, 000	690 1,920	1, 305, 000	885, 000 0	1, 500 640	830,000	640	630,000	0	650	640,000
18.00		3, 740 940	3, 750, 000	940	1, 570, 000	2, 180, 000	1,850	3, 995, 000	1, 850	1,530,000	465,000 455,000	520 1,450	1, 040, 000	620 780	700,000 705,000	340,000 340,000	610	315,000 320,000
20.60	1,000	6, 560 2, 350	4, 455, 000		2, 275, 000 1, 810, 000	2, 180, 000	2, 130 1, 690	2,010,000 1,890,000	1, 200 1, 890	1, 545, 000 1, 890, 000	0	\$30	630,000	630	\$30,000	Ö	640	640, 000 640, 000
22,00	1,000	1, 270	2, 605, 000	1,270	2, 505, 000	0	1,890	1, 890, 000	1, 890 1, 890	1, 890, 000 1, 920, 000	0	630	639,000 650,000	630 630	\$30,000 \$50,000	0	6 (0	660,000
23.00		3, 940 4, 650	4, 295, 000 4, 835, 000		4, 295, 000 3, 610, 000	1, 225, 000	1, 950	1, 995, 000	1, 950	1, 560, 000	435,000	570 1, 400	1,035,000 1,440,000		725, 000 890, 000	310,000 750,000	680 0	340, 000 0
25. 00	1,000	5, 020	5, 555, 000	2, 570	2,550,000 1,265,000	3, 405, 000 7, 715, 000	2,040 2,190	2, 115, 000 2, 235, 000	1, 170	\$,050,000 465,000	1, 065, 000	1, 480	1,530,000	600	300,000	1, 230, 000	0	Ó
26,00		11.070	113, 305, 000	0	0	13, 305, 000	2, 280	2, 415, 000	0		2, 415, 000 2, 475, 000		1, 660, 000 1, 750, 000	0	70,000	1,660,000 1,680,000	0	- 0
28.00 29.00	1,009		15, 155, 000 9, 000, 000	930	465,000 2 880,000	14, 590, 000 5, 920, 000	2,550 2,630	2, 590, 000 2, 350, 000	230	1, 150, 000	1, 200, 000	1,760	1, 590, 000		780,000	810,000	0	0
30.00	Brake 0	3, 230	0	3, 230	0	0	2,070	3, 160, 000	2,070 2,070	3, 180, 000	0	1, 420	2, 175, 000		2, 130, 000	45,000	0	0
36.00	3,000	3, 230 4, 370	11, 450, 000 29, 650, 000	4, 370	11, 400, 000 13, 500, 000	16, 160, 000	50	3, 520, 000	50	460, 000	3, 050, 000		2, 340, 000	60	120,000 D	2, 220, 000	0	0
43.00) 0	10,460	0 161, 702, 258	2, 380	. 0	91, 161, 750	1,710	67, 994, 250	180		25, 877, 750		32, 753, 000		15, 702, 500	16, 050, 500		11, 197, 500
Sent. 2	35,000		161, 102, 230	'	10, 510, 505							1 1				<u> </u>		
43.00	1,000	10. 460	9, 065, 000	2, 389	2, 125, 003	6, 940, 000	1,710	1, 750, 000	180		1,605,000		1, 140, 000 1, 190, 000	03	30,000	1, 110, 000 1, 170, 000	- 0	- 0
44.0	1,000	7, 570	8, 930, 000	1,870	โว ดเกดอก	I 7 020 000	l 1.790	1, 850, 000 2, 215, 000	110 179	140,000 85,000	1,710,000 2,130,000		1,550,000	40	20,000	1,530,000	0	0
45.00	1.000	16, 940	13, 565, 000 15, 865, 000	1. 980	1, 949, 000	13, 925, 00 <u>0</u>	2, 520	2, 235, 000	0	0							0	0
47.00 48.0			15, 375, 000 17, 910, 000	1 050	1, 940, 000 2, 115, 000	1 15 795 000	2.010	1, 930, 000 2, 145, 000	9	0	2, 145, 000	1, 420	1,530,000	0	0	1,530,000	0	0
49.0	1.000	19,880	15, 420, 000	2,250	2 550 000	12 820 000	1 2,280	2,090,000 2,300,000	0 190		1, 995, 000 2, 115, 000				\$5,000	1,455,000	0	
50.0 51.0			14, 125, 000	2 240	า รามา กณา	l 17. 845. COO	1 Z. /UU	1 2, 190, 000	180	90,000	2,300,000	1,800					0	0
52.0	1,000	23, 940	24, 559, 00		2,070,000	22, 480, 000	2,080	2, 285, 000	0	0	0	1,640		0	0	. 0	0	0
53.0 Sua. 3	10,000		155, 410, 00			132, 890, 000		21, 240, 090		740,000	20, 500, 000	 -	14, 510, 000	' -	200, 000	14, 310, 000		
		-	 					1			9 200 000	1, 640	1, 850, 00) 0	ļ,	1, 850, 000		0
\$3.0		25, 160	23, 500, 00	0 1,850	930,000	22, 570, 000 15, 005, 000	2, 490	2, 750, 000	0			2,080	1,830,00	0	1	1, 830, 000	0	0
\$4.0 \$5.0	0 50	8, 170		0 0	0	3, 995, 000	2, 340	2, 885, 000 1, 157, 500 1, 110, 000	0	T 0		1,560	730,00			760,000	0	0
55. 5 56. 0	0 50					8, 565, 000	2, 150	2, 390, 000	0	245,000	2, 145, 000	1,450	1,660,00	0 0	160,00	1, \$00, 000 1, 140, 000		
57.0	0 1,00	9, 510	6, 450, 00	0 730	1 615 600	1 5 435 DOC	2,630	2, 180, 000 1, 750, 000	490 770			820	970,00	80	50,00	920,000	0	
58. C	VA 1 00	0 2 15	n rem m	ก็ได้เกลา	2, 690, 000	1 6,000,000	1,770	1,810,000	1/0	290,000	1, \$20, 000 1, \$45, 000	1,120	1,085,00			1,050,000 1,050,000		
60.0	Ñ 1,00	Ō 10, 23					1,850	1,750,000		535, 000	1, 395, 000	1, 100	1,025,00	0 (35,00	990,000	0	
61.0 62.0)0	0 11.96 0 3,37	0	0 1,530		1 100	1 6,610	19, 522, 500	3,070	2 115 000	17, 147, 500		12, 395, 00	0 70		0 0 0 0 11,890,000		
Sea.		0	91, 790, 00	NU	10, 435, 000	81, 355, 000	'-	13, 311, 30		2, 3, 3, 300	1	 	T				- 	
			0 2 240 00	N 1 630	3 820 000	3, 910, 00	2, 210	3, 010, 000	1,070	1,070,000	1,949,000		1, 940, 00	0 7		0 1,870,000		
64.0	00 2,00	0 3.37 0 4.37	0 6,765,00	0 2,300	3, \$50, 000	3, 105, 00	800	3, 075, 000	1	1, 875, 000	1, 200, 00	990	2,450,00 3,900.00	0		0 1, 485, 000	0 685	
67.	0 6,00	0 14	0 420,00	0 140			1, 250	891,000	540		· · · · · ·	850	1, 972, 50	0 65	0 1,072,50	0 (660	
73.	30	0	0	0	1 6) (3, 140, 00		9, 372, 50		0 6,017,50			6, 129, 00
Suna	5 14, 30	00	14, 925, 00	<u>NJ</u>	1, 310, 000	,,,,,,,,,,,		0 10, 00	1	1					-		- -	
. <u>C=</u> 3						1 - 1	-	1	1				1]	0	5, 532, 00
Sun	1 11,80	io	940, D		940,000		0	12, 617, 00 67, 994, 25		10, 377, 60	2, 240, 00 25, 877, 75	0	5, 492, 00 32, 753, 00	00	5, 492, 00 16, 702, 50	0 16, 050, 50	ō	11, 197, 50
Stre.	2 38.DC	хо ох	161, 702, 2 155, 410, 0		22, 420, 000	91, 161, 75 32, 530, 00	0	21, 240, 00	5	740,000	3 20, 500, 00	ō	14, 510, 00	00	200,00	0 14, 310, 00 0 11, 890, 00	0	Ī
SUL	4 9,0	00	91, 790, 0	00	10, 435, 000	81, 355, 00	<u> </u>	19, 522, 50 12, 346, 00		9, 206, 000	0 17, 147, 50 0 3, 140, 00	<u> </u>	12, 395, 00 9, 372, 50	00	6, 017, 50	0 3, 355, 00	0	6, 129, 00
	\$ 14,34 1 81,19		14, 925, 0 124, 767, 2		112, 245, 500	7, 015, 00 112, 521, 75	ŏl	133, 719, 75	<u> </u>	64, 814, 50	68, 905, 25	0]	74, 522, 50	00 i	28, 917, 00	0 45, 805, 50	<u> </u>	22, 858, 50

Total Excava	tlon Vol. 655, 858, 000 } 427, 012, 500			;	
Net	228, 835, 500	 	 		

Ir-14 Calculation Table of Excavation Volume

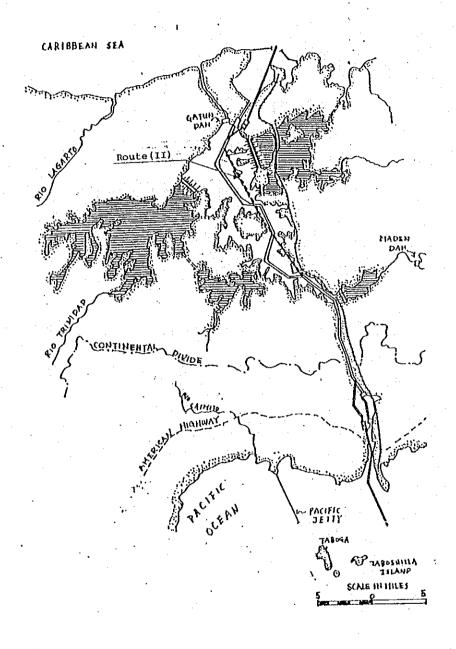
Barra T		·		11 A D					Soft B	- Ale		·		Earth			Mad	
Station No.	Dis (m)	Ao	Yo	Hard Ro Ret Al	Wet VI	Dry Y2	Ao .	Yo	let Al	Wet VI	Dry V2	λo	Yo	let Al	Tet Vi	Dry V2	No.	Ϋ́o
-11.10	8, 100	0	0	0	0		0	9, 841, 500	- 100	9, 841, 500		100	3, 199, 500	200	3, 199, 500	0	- 0	3, 199, 500
-3.00 1.00	4,000 0	1, 030	2,050,000	1,030	2,060,000	0	2, 130 2, 100	9, 660, 000	2, 400	9, 660, 000 0	0	790 820	3, 220, 000	790 820	3, 270, 000	- <u>0</u>	790 820	3, 220, 000
		1,030	2, 060, 000	1,030	2,060,000	0	2, 100	19, 501, 500	2, 100	19, 501, 500			6, 419, 500		6, 419, 500	Ŏ		6, 419, 500
	250 252						-				T.:							
1.00	50	1 020	158, 250	470	35, 500	122, 750	2, 400	123,000	380	22, 500	100, 500	1. 640	85, 000	-	0	85,000		0
1.00	1, 150	1, 030 5, 300	6, 095, 000	950	1, 092, 500	5, 002, 500	2, 520	2, 898, 000	520	598,000	2, 300, 000	1,760	2, 024, 000	Ŏ	Ŏ	2, 024, 000	ŏ	- ŏ
2. 20	10	5, 300	53,000	950	9, 500	43, 500	2, 520	25, 200	520	5, 200	20,000		22, 600	0	0	22, 500	0	0
2, 21	190	5, 300	1,007,000	950	180, 500	826, 500 43, 500	2, 520	478, 800	520 520	98, 800 5, 200	380,000 20,000	2,760 2,760	524, 400 22, 500	0	0	\$24,400 22,600	0	0
2,40	10 590	5, 300 5, 300	53, 000 3, 127, 000	950 950	9, 500 560, 500	2, 565, 500	2, 520 2, 520	25, 200 1, 485, 800	520	305, 800		1,760	1,038,400	0	ŏ	1, 038, 400	ŏ	0
3.00	2,000	5, 300	7, 950, 000	950	3, 600, 000	4, 350, 000	2, 520	4, 650, 000	520	2, 650, 000	2,000,000	1,760	2, 480, 000	0	720,000	1,760,000	0	730, 000
5,00	3,000	2, 650	7, 950, 000	2, 650	7, 950, 000	0	2, 130	6, 390, 000	2, 130	6, 390, 000	0	720 720	2, 160, 000 710, 000	720 720	2, 160, 000 710, 000	0	730	2, 190, 000 720, 000
9.00	1,000	2, 650 0	1, 325, 000 1, 235, 000	2, 650 O	1, 325, 000	0	2, 130 1, 840	1, 985, 000 1, 985, 000	2, 130 1, 840	1, 985, 000	0	700	710,000	700	710,000	Ö	710	720,000
10.00	1,000	2, 470	1, 465, 000	2,470	1, 465, 000	0	2, 130	2, 115, 000	2,130	2, 115, 000	0	720	715,000	720	715,000	0	730	725, 000
11.00	1,000	460	1, 155, 000	460	1, 155, 000	0	2, 100		2, 100	2, 115, 000	0	710	710,800 710,000	710 710	710,000 710,000	<u>0</u>	720	720,000
12.00 13.00	1,000 500	1,850	1, 460, 000 905, 000	1, 850 1, 070	1, 450, 000 905, 000	0	2, 130 2, 130	2, 130, 000 1, 072, 500	2, 130 2, 130	2, 130, 000 1, 072, 500	0	710	342, 500	210	312, 500	. 0	720	347, 500
13.50	500	2, 550		2,550	1, 190, 000	Ö	2, 160	1,072,500	2, 160	1, 072, 500	0	660	345,000	550	345,000	0	670	350, 000
14.00	1,000	2, 210	2, 165, 000	2, 210		0	2, 130	2, 130, 000		2, 130, 000	1 505 600	720	720,000	720 720	720,000	0.000	730	730, 000
15.00 15.00	1,000	2, 120 1, 500	6, 810, 090 11, 430, 000	2, 120	1,050,000	5, 750, 000 9, 900, 000	2, 130 2, 590	2, 360, 000 2, 690, 000	2, 130 0	1, 055, 000	1, 295, 000 2, 285, 000	1, 590	1, 205, 000 1, 685, 000	720	230,000 230,000	845, 000 1, 455, 000	730	365,000
17.00	1,000	11, 360	8, 190, 000		4, 040, 000	4, 158, 000	2, 790	2, 480, 000	810	1, 490, 000	990,000	1, 580	1, 205, 000	460	595,000	610,000	0	370,000
18.00	1,000	5, 020	3, 120, 000	5,020	3, 420, 000	D	2, 170	2, 150, 000	2, 170	2, 150, 000	0	730	725,000	730	725, 900	165 000	740	735, 000
19.00 20.00	1,000	1, 820 8, 480	5, 150, 000 5, 915, 000	1,820	2, 360, 000 3, 125, 000	2, 790, 000 2, 790, 000	2, 130 2 410	2, 270, 000 2, 285, 000		1, 730, 000 1, 745, 000	540, 000 540, 000	720 1, 640	1, 180, 000 1, 185, 000	720 870	795, 000 800, 000	385, 000 385, 000	739	370,000
21.00	1,000	3, 350		3, 350	2, 730, 000	2,130,000	2, 160	2, 160, 000		2, 160, 000	0	730	739,000	730	730,000	0	740	740,000
22.00	1,000	2, 110	3, 850, 000	2, 110	3, 850, 000	0	2, 160	2, 160, 000		2, 180, 000	0	730	730,000	730	730,000	0	740	740,000
23.00	1,000 1,000	5, 190 5, 950	5, 570, 000 6, 215, 000	5, 190	5, 570, 000 4, 555, 000	1, 650, 000	2, 160 2, 190	2, 175, 000 2, 250, 000	2, 100	2, 175, 000 1, 750, 000	500,000	730	730,000 1,145,000	730	795,000	350, 000	740	370,000
25.00	1,000	6, 480	7, 505, 000		3, 220, 000	4, 285, 000		2, 385, 000	1,310	1, 180, 000	1, 205, 000	1,560	1,610,000	860	770,000	840.000	0	0
26.00	1,000	8, 530	10, 855, 000		1,640,000	9, 215, 000	2, 150	2,520,000		525, 000 0	1, 995, 000		1, 710, 000 1, 855, 000	680	340,000	1, 370, 000	<u> </u>	0
27,00	1,000	3, 180 8, 360	15, 770, 000 17, 965, 000	0	725, 000	15, 770, 000 17, 240, 000	2, 580 2, 850	2, 715, 000 2, 870, 000	0	170,000				0	116,000	1, 835, 000	l öl	
29.00		7, 570	11, 140, 000		3, 080, 000	8, 060, 000	2, 890	2, 600, 000	340	1, 325, 000	1, 275, 000	1,940	1, 770, 000	220	\$10,000	860,000	0	G
30, 00		4.710		4,710	0	0	2,310	3, 720, 800	2, 310 2, 130	3, 360, 000	360,000	1,600 710	1, 365, 000	1, 500 710	1,065,000	300,000	720	1,080,000
35, DO 39, DO	3,000 4,000	2, 220 8, 370	12, 885, 000 38, 000, 000			150,000 20,100,000	2, 130 350	6, 520, 000	110	\$20,000	5, 900, 000	200	2, 960, 000	7,10	200,000	2, 780, 000	770	0
43.00	0	2, 630	0	2, 680	Û	. 0	2,910	0	200	0	0	1,280	0	100	0	0	0	0
Sua 2	36, 000		210, 493, 250		95, 678, 000	114, 815, 250		76, 992, 000	ļ	48, 691, 500	28, 300, 500		37, 054, 500		17, 727, 500	19, 327, 000		13, 827, 500
 																		
43.00	1,000	2, 630	11, 250, 000		2, 405, 000	8, 855, 000	2, 910	2, 495, 000	200	155,000			1, 300, 000	100	50,000 20,000	1, 250, 000	0	0
44.00 45.00	1,000 1,000	9, 890 (13, 090 (2, 130 2, 280	2, 205, 000 2, 280, 000	9, 285, 000 14, 670, 000	2,080 2,190	2, 135, 000 2, 355, 000	110 170	140,000 85,000	1, 995, 000 2, 270, 000		1, 380, 000	40	20,000	1, 720, 000	ŏ	0
45.00		20, 810		2,280	2, 230, 000	17, 295, 000	9.520	2, 375, 000	Ö	0	2, 375, 000	2,040	1, 780, 000	0	0	1, 780, 000	0	Ö
47.00	1,000	6, 240	18, 750, 000	2, 180	2, 205, 000	16, 585, 000	2, 230	2, 255, 000	0	0 0			1, \$60,000 1, \$20,000	0	0	1,560,000	0	0
48.00 49.00	1,000	19, 340 24, 170	21, 755, 000 19, 425, 000		2, 400, 000 2, 895, 000	19, 355, 000 16, 530, 000		2, 340, 000 2, 285, 000	0		2, 340, 000 2, 190, 000		1, 535, 000	Ü	35,000	1,500,000	0	ő
50, 09	1,000	4, 680	18, 470, 000	3, 220	3, 510, 000	14, 960, 000	2, 170	2, 570, 000	190	185,000	2, 385, 000	1, 430	1, 690, 000	70	55,000	1, 625, 000	0	0
51.00		22, 260		3, 800	3, 195, 000	22, 185, 900	2, 970	2, 665, 000	180	90,000	2, 575, 000	1, 950 3, 540	1,745,000 1,680,000	00	30,000	1, 715, 000	0	0
52.00 53.00	1,000 0	28, 500 28, 400	28, 450, 000 D	2, 590	2, 330, 000	26, 120, 000	2, 360 2, 730	2, 545, 000	6	0	2, 545, 000 0	1, 820	1,000,000	0	0	1, 000, 000	ŏ	Ö
Sua. 3	10,000	-0, 100	191, 495, 000	2,010	25, 855, 000	165, 840, 000	31	24, 020, 000		750,000	23, 270, 000		15,030,000	7 7 7	220,000	15, 810, 000		Ō
							<u> </u>			ļ	ļ. <u> </u>			-			-	
53.00	1,000	28, 400	27, 355, 000	2,070	1,035,000	26, 330, 000	2, 730	2, 950, 000	0	0	2, 960, 000	1, 820	1, 985, 000	. 0	0	1, 985, 000	0	0
54.00	1,000		18, 280, 000	0	. 0	18, 280, 000	3, 190	2, 885, 000	Ü	0	2, 885, 000	2, 150	1,950,000	0		1, 950, 000	0	
\$5, 00 \$5, 50	500 500	9, 230	4, 995, 000 4, 072, 500	0	0			1, 305, 000	0	0			885, 900 857, 500	0	0	885,000 857,500	- 0	0
56.00	1,000	9,750 8,540	19, 275, 000	0	470,060	9, 805, 900	2, 430		0	245,000	2, 425, 000	1, 650	1, 810, 000	0	0	1, 810, 000	0	0
57.00	1,000	14.010	9, 480, 000	940	1, 320, 000	8, 150, 000	2,910	2, 515, 000	490	\$30,000			1, 490, 000	J20	200,000		0	0
58.00	1,000	4, 950		1,700	1,539,000			2,050,000 2,075,000	770 170	470,000 290,000	A BAL GOD		1, 160, 000 1, 260, 000	80 20		1, 110, 000 1, 225, 000	0	0
	1,000							2, 050, 000	410			1, 220	1, 255, 000	50	25,000	1, 230, 900	Ō	0
61.00	1,000	14, 230	9, 725, 000	1, 600				2, 260, 000					1, 240, 000			1, 205, 000		0
52.00 Sum 4	9,000	5, 220	116, 182, 500	2,030	12, 240, 000	103, \$42, 500	2,570	22, 047, 500	1,070	2 125 000	19, 672, 500	1, 190	13, 902, 500	70		13, 557, 500	0	0
Sun. 4	3,000		110, 102, 200		16,210,000	103, 312, 000		21,011,000		210,0100	1.5, 1.5, 1.5		1 1 1 1					
		- AAA	11 100 000	4.000	1 620 000	£ 600 AAA	9 520	3, 870, 000	1 070	1 070 000	2 8/00 0000	1, 190	2, 240, 000	70	20 000	2, 170, 000	0	-
52.00 54.00		5, 220 6, 210	11, 430, 000 10, 485, 000			5, 600, 000 5, 115, 000				2,610,000	2, 800, 000 1, 950, 000		2, 700, 000			1, 575, 000		
67.00	6,000	780	2, 910, 000			0	1,740	9, 950, 000	1,740	9, 960, 000	0	750	4, 530, 600	750	4, 530, 000	Û	780	4, 650, 000
73.00	6, 500	190	617, 500	190	617, 500		1,550	5, 135, 000	1,580	5, 135, 000	D		2, 470, 000		2, 470, 000	0		2, 502, 500
79.50 Sum 5		0	25, 442, 500	0	13, 727, 500	11, 715, 000	1-0	23, 525, 000	0	18, 775, 000	4, 750, 000		11, 940, 000	├		3, 745, 000	0	8, 322, 500
30H. 3	11, 300		23, 492, 300		13, 121, 300	11, 113,000		FA' 252' 000		20,170,000	1, 100, 000		21, 210, 000		2, 230, 000	-, 13, 500		*, ***, ***
<u>L-14</u>			ļ				Į		ļ	11.				μ				
Sou. 1	12, 100		2, 050, 000	├—	2,059,000	0	 	19, 501, 500		19, 501, 500		1-	5, 419, 500		6, 419, 500	0		6, 419, 500
Sun. 2	36,000		210, 493, 250		95, 678, 000	114, 815, 250		76, 992, 000		48, 691, 500	28, 300, 500		37, 054, 500		17, 727, 590	19, 327, 000		13, 827, 500
Sum. 3	10,000		191, 495, 000		25, 655, 000		ļ	24, 020, 000		750,000	23, 270, 600	1-	18, 030, 000		220,000	15, 810, 000 13, 557, 500	-	0
Sers. 4 Sers. 5	9,000 17,500		116, 182, 500 25, 442, 500		12, 240, 000			22, 047, 500 23, 525, 000		18, 775, 000	19, 672, 500 4, 750, 000	1	13, 902, 500 11, 940, 000		8, 195, 000	3, 745, 000		8, 322, 500
	84, 500		545, 673, 250		149, 360, 500			166, 086, 000			75, 993, 000		85, 346, 500			52, 439, 500		28, 569, 500
-			·	_														

Total Excavation Vol.	825, \$75, 250
ORY	524, 745, 250
WET	300, 930, 000

Irl7 . Calculation Table of Excavation Volume

									* ** *								N- 31	
tation	Dis	-i. I	11.	llard R	xk Vet Vi	Dry Y2	lo l	Vo	Soft Ro Vet Al	ck Tet VI	Dry V2	, Ao .	Yo)	Earth let Al	Wet VI	Dry V2)lad Ao	Yo
16. -11.50	8,500	- M	Yo 0	Vet Al	751 11	VIY 14	0	10, 327, 500		10, 327, 500		0	3, 357, 500	0	3, 357, 500	Ü	0	3, 357, 500
-3,00	4,000	0	2,060,000	0	2,050,000	0	2, 430		2, 430 2, 400	9, 660, 000	0	790 820	3, 220, 000 0	790 820	3, 220, 000	0	790 820	3, 220, 000
1.00	13 600	1,030	3 040 000	1,030	2,060,000	0	2, 400	19, 987, 500	2, 400	19, 987, 500		920	6, 577, 500	-020	6, 577, 500	0	V20	\$, 577, 500
Sta i	12,500		2, 060, 000	 	2,000,000			10, 301, 400							.,,			
<u> </u>			· · · · · · · · · · · · · · · · · · ·							44 463		1 610	AC 000			05 000		
1,00	50	1,030	158, 250	470	35, 500	122, 750	2,400	123,000 2, 898, 000	380 570	22, 500 598, 000	100, 500 2, 300, 000	1,640 1,760	85,000 2,024,000	0	0	85, 000 2, 024, 000	0	
1,05	1, 150	5, 300 5, 300	6, 095, 000 53, 000	950 950	1, 092, 500 9, 500	5, 202, 500 43, 500	2,520	25, 200	520	5, 200	20,000	1,760	22, 600	ő		22, 600	ŏ	Ö
2. 20 2. 21	190	5, 300	1,007,000	950	180, 500	826, 500	2, 520	478, 800	520	98, 800	380,000	2,760	524, 400	0	0	524, 400	0	0
2. 40	iö	5, 300	53,000	950	9, 500	43, 500	2, 520	25, 200	520	5, 200	20,000	2,760	22, 600	0	0	22, 600	0	0
2, 41	590	5, 300	3, 127, 000	950	560, 500	2, 566, 500	2,520	1, 485, 800	520 520	308, 800 3, 010, 000	1, 180, 000 2, 000, 000	1,760	1,038,400 2,600,000	0	810,000	1, 038, 400		850,000
3.00	8,000	5, 300 4, 190	9, 430, 000 12, 570, 000	1 950	5, 140, 000 12, 570, 000	4, 350, 000 0	2, 490	5,010,000 7,470,000		7, 470, 000	0	810	2, 520, 000	810	2, 520, 000	0	850	2,550,000
5.00	3,000 1,000	1 190	2, 485, 000	1 190	2, 465, 000	0	2, 490	2, 460, 000	2, 490	2, 460, 000	Ö	840	830,000	840	830,000	0	850	840,000
9.00	1,000	740	2, 440, 600	740	2, 440, 000	0	2, 130	2, 460, 000	2, 430	2, 460, 000	0	820 840	830,000 835,000	820 840	830,000	0	830 850	840,000 845,000
10.00	1,000	4. 140			3, 050, 000	0	2, 190	2, 490, 000 2, 490, 000	2, 490 2, 490	2, 490, 000 2, 490, 000	- ŏ	830	830,000	830	830,000	0	840	840,000
11.00 12.00	1,000	1, 960 3, 590			2, 775, 000 3, 135, 000	- 0		2, 490, 000	2,490	2, 490, 000	Ō	830	830,000	830	830, 000	0	840	840,000
13.00	500	2, 680	1, 760, 000		1, 760, 000	0		1, 265, 000	2,490	1, 265, 000	0	830	130,000	830	430,000	. 0	849	135,000 137,500
11.50	500	4, 360	2, 127, 500	4, 360	2, 127, 500	. 0	2,570	1, 265, 000	2, 570 2, 430	1, 255, 000 2, 490, 000	<u> </u>	890 840	402, 500 840, 000	890 840	432, 500 840, 000	0	900 850	850,000
14.00		4, 150 3, 720	3, 935, 000	4, 150 7 720	3, 935, 000	7, 395, 000	2, 490	2, 190, 000	2, 490	1, 245, 000	1, 455, 000	840	1, 375, 000	840	420,000	955, 000	850	125,000
15.00	1,000		14, 365, 000	3,720	2, 165, 000	12, 200, 000	2, 910	3, 015, 000	0	480,000	2, 535, 000	1,910	1, 905, 000	0	280,000	1, 625, 000	0	0
17.00	1,000	3, 940	10, 325, 000	4, 330	5, 520, 000	4, 805, 000	3, 120	2, 820, 000	960		1,080,000	1, 900	1, 375, 000	560	705, 000	670, 000 0	860	430,000 855,000
18.00		8, 710			5, 175, 000		2, 520	2, 505, 000 2, 645, 000	2, 520	2, 505, 000 2, 000, 000	645, 000	850 840	845,000 1,340,000	859	845,000 890,000	450,000	850	425, 000
19.00 20.00	1,000	3, 640 1, 720	7, 680, 000 8, 395, 000		3, 820, <u>000</u> 4, 535, <u>000</u>	3, 860, 000 3, 860, 000	2, 800	2, 550, 000		2,000,000	845,000	1,840	1, 345, 000	910	895,000	450, 000	0	430,000
21.00	1,000	5, 970	4, 430, 000		4, 430, 000	3, 000, 000		2,520,000	2, 520	2, 520, 000	0	850	850,000	850	850,000	0	850	000,038
22.00	1,000	3. 790	5, 555, 000	3,790	5, \$55, 000		2,520			2, 520, 000	0	850	850,000	850	850,000	0	850 860	860, 000 860, 000
23.00	1,000	7, 320			7, 580, 600		2,520	2, 535, 000	2,520 2,550	2, 535, 000 2, 025, 000	500,000	850 850	850,000 1, 340,000	850 850	850,000 915,000	425, 000	860	430,000
24.00	1.000	7, 840 8, 800	8, 329, 060	7,840	5, 995, 000 4, 345, 000	2, 325, 000 5, 925, 000	2 700	2, 525, 000	1,500	1, 380, 000	1, 395, 000	1,830	1, 875, 000	980	900,000	975,000	0	0
25.00 26.00		1,740	13, 820, 000	4. 540	2, 270, 000	11, 550, 000	2, 850	2, 910, 000	1, 260	630,000	2, 280, 000	1,920	1, 970, 000	820	410,000	1,560,000	Ō	0
27.00	1,000	5, 900	19, 500, 000	0	0	19, 500, 000	2, 970	3, 090, 000	0	0	3, 090, 000	2,020	2, 110, 000	0		2, 110, 000 2, 020, 000	0	0
28.00	1,000	23, 100	22, 490, 000			21, 390, 000	3, 210	3, 210, 000 2, 940, 000	510	255,000 1,590,000	2, 955, 000 1, 350, 000		2, 180,000 2, 010,000	0 320	1,090,000	920,000	Ö	. 0
29.00 30.00		21, 880 6, 860	14, 340, 600 0		4, 500, 000 0	9, 840, 000	2, 570	2, 310, 000	2, 670	1, 030, 000	0	1, 260	0	1, 850	0	0	0	0
36.00		2, 220	12, 885, 000	2, 220	12, 735, 000	150,000	2, 130	3, 720, 000	2, 130	3, 360, 000	360,000		1, 385, 000	710	1,065,000	300,000	720	1, 080, 000
39.00	4,000	6, 370	38,000,000	6,270	17, 500, 000	20, 100, 000	350	6, 520, 000	110	620, <u>000</u>	5, 900, 000	200	2, 950, 000	100	200,000	2, 760, 000	0	
43,00		2, 630		2,680	0 770 500	0 000	2, 910	86, 537, 000	200	56, 346, 500	20 200 500	1, 280	41, 239, 500	100	20, 542, 500	20, 697, 000		15, 982, 500
Son. 2	36, 000		265, 625, 750	 	130, 770, 500	133, 633, 230		00, 011, 000		30, 310, 300	30, 230, 200	l	11,100,000					
	-	<u> </u>		 											50 500	100 000	ō	
43.00	1,000	4, 960	14, 305, 000		3, 455, 000	10, 840, 000	2,070	2, 305, 000	360		2,070,000	1, 280	1, 470, 000	100		1, 420, 000	0	
44.00		3, 650	15, 335, 600			12, 735, 000 19, 340, 000	2 500	2, 529, 000 2 600 000	110	149,000 85,000				48		1, 895, 000	Ö	0
45.00 46.00		97, 020 26, 860	21, 940, 000 25, 105, 000			22, 605, 000	2,700	2, 660, 000	Ť	03,000	2, 650, 000	2, 180	2,000,000	0	0	2,000,000	0	0
47.00		23, 350	23, 910, 000		2, 550, 000	21, 350, 000	2, 520	2, 840, 000	0	0				0		1. 850, 000	0	0
48.00	1,000	24, 470	25, 940, 000			24, 190, 000	2,660		0	0 000	2, 555, 000	1,860	1,840,000	0		1, 849, 000	- ö	0
49.00		29,410	24, 770, 000 24, 505, 000		3, 370, 000	21, 400, 000 20, 285, 000	2, 570	2, 805, 000 2, 890, 000	190	95,000 185,000		1.670	1, 925, 000	70		1, 860, 000	Ö	0
50.00	1,000	20, 130 28, 880	31, 645, 000		3 800 000	27, 845, 000	3, 240	2, 970, 000	180	50,000	2,880,000		1, 980, 000	60		1, 950, 000	0	.0
\$2.00			35, 975, 000		2, 700, 000	33, 275, 000	2,700	2, 850, 000	0	0	2, 850, 000		1, 929, 000	0	<u> </u>	1, 920, 000	0	0
53.00	1 0	7, 540		2,400	0	0	3,000	0 66 305 800	0		25, 875, 000	2,060	18, 310, 000	0	220 000	18, 090, 000		0
Sux. 3	10,000		244, 430, 000	 	30, 555, 000	213, 875, 000	_	26, 705, 000	 	030,000	23, 013, 000		10, 310, 000		220,000	30,000,000		
——	 	1	 	1								ļ				3 105 000	-	<u>_</u>
53.00		37, 540	34, 855, 000			33, 855, 000	3,000	3, 230, 000	0				2, 195, 000	0	0	7, 195, 000 2, 155, 000		<u> </u>
54.00		32, 170	21, 750, 000		0			3, 290, 000 1, 487, 509	0		1, 487, 500		2, 155, 000 1, 002, 500	0	ŏ			Ď
55.00 55.50		1, 330 2, 810	6, 035, 000 5, 587, 500			5, 587, 500			0		1, 457, 500	2,030	987, 500	0	, o	987, 500	0	0
56.00	1,000	9, 540	14, 950, 000	0	650,000	14, 300, 000	2,820	3,065,000	0	245, 000	2, 820, 000	1, 920		220	200 000	2, 120, 000 1, 610, 000	0	0
57.00	1,000	20, 360	13, 920, 000	1,300		12, 120, 600					2, 280, 000	7, 320	1, 810, 000 1, 410, 000	320 80	200,000	1, 510, 000		0
	1,000		10,505,000	2,300	2, 920, 000	8, 485, 000	2,510	2, 135, 000	770 170	470,000 290,000	1, 303, 000	1, 500	1, 400, 000			1, 365, 000		0
\$9.00 60.00	1,000	5, 900	15, 785, DOC	7, 100	4, 450, 000	10, 295, 000 12, 335, 000	2, 210	2, 255, DOO	410	205,000	2, 050, 000	1, 260	3, 100, 000	50		1, 375, 000		
\$1.00	1.000	17, 670	12, 810, 000	1, 800	2, 185, 000	10, 825, 000	Z, 300	2, 635, DUU	Į U	535,000	2,100,000	1,520	1, 495, 000	0	35, 000			
62.00	0	7, 950	0	2,570	0	0	2, 970	.0	1,070		22, 585, 000	1,470	15, 975, 000		345 000	15, 630, 000		
Sua. 4	9,000	ļ	151, 912, 500	4—	15, 725, 000	135, 187, 500	1	24, 960, 000	 	2, 313, 000	20, 200, 000	·	10, 313, 000	1	510,000	44, 400, 000		Ĭ
-	 		 	1	1	1						1				4 225		ļ
62.00	2,000	7, 950	18, 520, 000	2,570	8, 020, 000	10, 500, 000	2, 970	4, 710, 000	1,070	1,070.000		11,470	2, 870, 000	70		2,800.000		
64.00	3,000	8, 570	15, 705, 000	3, 450	8, 025, 000	7, 680, 000	1,740	6, 405, 000	1 0	3, 795, 000						2, 100, 000		
67.00	6,000	1.900	9, 240, 000					15, 210, 000 13, 843, 000	2 540	15, 210, 000 13, 843, 000								5, 014, 000
83.99	10,500				0	(0	0) 0	10	0	1 0	0	0	0	9		0 0	0
Sus 5	21, 900		47, 896, 000	<u>' — </u>		18, 180, 000		40, 168, 000	I	33, 918, 000	6, 250, 000		16, 709, 500	1-	11, 809, 500	4, 900, 000		11, 959, 000
								 	 	 	 	↓ —	 	 	 	┼		+
11	7	1-	I	-		 -	 	 	+-	 	1	+	 -	1	1	 	-	1
Ç	12, 500	·	2, 060, 000	0	2,060,000	1 0	1-	19, 987, 500	<u>L</u>	19, 987, 500			6, 577, 500		8, 577, 500		Ō	8, 577, 500
	36,000		266, 625, 750)	130, 770, 500	135, 855, 250		85, 837, 000		56, 346, 500	30, 290, 500		41, 239, 500	· L	20, 512, 500	20, 697, 00	<u> </u>	15, 982, 500
State 3	10,000		244, 430, 000	Ĭ		213, 875, 000		26, 765, 000			25, 875, 000 22, 585, 000		18, 310, 000 15, 975, 000			18, 090, 00 15, 630, 00		
	9,000		151, 912, 500			18, 180, 000		24, 960, 000 40, 168, 000			6, 250, 000		16, 709, 500			4, 900, 00		11, 959, 000
	89, 400		47, 895, 000 712, 924, 250			503, 097, 750		198, 457, 500		113, 457, 000	85, 000, 500	<u> </u>	98, 811, 500			59, 317, 00		34, 519, 000
Liotal	100, 400		1 116, 324, 25		, 1,, 550													

otal Excavation Vol. 1,044.712,250 Dry 647,415,250



Study Case	Route	W. Level	No. of Lifts	No. of Lanes	Ship Size (1000 DWT)	Canal Size (m)
L-12	II	30'	1	2	100	301 x 18.7
15	II	30'	1	2	150	343 x 20.9
18	II	30'	1	2	250	399 x 24.2

Layout of Low Rise Lock System for Group B Study Cases (30')

L-12	I-12	Calc	ılation	Table	OI.				rune.	<u> </u>				·	Ned.	
Station Dis		Hard B	ock Wet Yl	Dry V2	w Т		oft Roc t Al	k Wet Yi	Dry V2	1 6	Yo We		Wet VI	Dry V2	Mad .ko	Yo
No. (II) -10.80 7,800	 0	Vo Ret A1	0	0 1,	0 (357,000 3,260,000 1		6, 357, 000 6, 260, 000	8	0	2, 852, 000 2, 840, 000		2, 652, 000 2, 840, 000	0	680	2, 652, 000 2, 880, 600
-3.00 4.000 1.00 D	0 470	940,000 0 0 470	940,000 D	0 1,	500	0 1	, 500	2, 617, 000	Ö	740	D 5, 492, 000	740	0 5, 492, 000	0	760	5, 532, 000
Sum. 1 11,800		940,000	940,000			617,000		2, 817, 000			3, 132, 000					
		22 250 420	35, 500	58, 250 1,	500	120, 750	380	22, 500	98, 250	1,500	89, 500	G .	0	69, 500	0	0
1.00 50 1.05 1,150	470 3, 280	93, 750 470 3, 772, 000 950	1, 092, 500	2, 679, 500 3,	330	, 829, 500	520	598,000 5,200	3, 231, 500	1,280 1,280	1, 472, 000 17, 800	0	0	1, 472, 000	0	0
2. 20 10 2. 21 190	3, 280	32, 800 950 823, 200 950	9, 500 180, 500	23, 380 3, 442, 700 3.	330	33, 300 632, 700	520 520	98, 800	533, 900	2, 280	433, 200	Ü	0	433, 200	0	0
2, 40 10	3, 280	32,800 950	9,500 560,500	23, 300 3, 1, 374, 700 3,	330	33, 300	520 520	5, 200 306, 800		2, 280 1, 280	17, 800 755, 200	0	0	17, 800 755, 200	0	ā
2.41 590 3.00 2,000	3, 280 3, 280	1,935,200 950 7,410,000 950	950,000	6, 450, 000 3,	<u>, 330 [2</u>]	5, 950, 000 <u> </u>	520	520,000	26, 430, 000	1, 280 1, 280	2, 540, 000 472, 500	720	720, 000 337, 500	1,820,000 135,000	730	730,000 j 342,500
5.00 500 5.50 500	4, 130 2, 140	1,567,500 0 1,170,000 2,140		1, 032, 500 23, 0 1,	. 870	5, 372, 500 945, 000 1	870	945,000	0_[630	317, 500	630	317,500	0	640 650	322, 500 645, 000
5,00 1,000	2,540	1, 920, 000 2, 540	1, 920, 000	0 1	910	1, 890, 000 1 1, 905, 000 1		1, 890, 000	0	630	635, 000 655, 000	640 630	655, 000	Ö	640	665,000
7.00 1.000 8.00 1.000	1, 300 4, 190	2, 745, 000 1, 300 2, 905, 000 4, 190	2, 905, 600	0 1	940	1, 910, 000	L 940	1,910,000 1,910,000	0	680 630	£55,000 £45,000	580 630	655, 000 645, 000	0	690 640	665, 000 665, 000
9.00 I,000 10.00 I,000	1, 520	2, 925, 000 1, 620 3, 125, 000 4, 230	2, 925, 000 3, 125, 000		, 940	1, 910, 000 1 1, 925, 000 1	340	1, 925, 000	0	660	650,000	088	650,000	0	690 650	670,000 655,000
11.00 1,000	2,020	2, 685, 000 2, 020	2, 685, 000			1, 915, 000 1, 920, 000	1,910 1,920	1, 915,000 1, 920,000	0	\$40 \$50	645, 000 650, 000	640 650	645, 000 650, 000	0	660	660,000
12.00 1,000 13.00 500	2,600	2, 975, 000 3, 350 1, 627, 500 2, 600	1, 627, 500	0 1	920		920	997, 500 1, 005, 000	0	650 690	335, 000 337, 500	650	335, 000 337, 500	0	860 700	340,000 342,500
13,50 500 14,00 1,000		1, 950, 000 3, 910 3, 785, 000 3, 930	1,960,000 3,785,000	8 1	, 950	1, 945, 000	1,950	1, 345, 000	0	660	655, 000 1, 145, 000	660 650	\$55,000 325,000	820, 000	670 660	865, 000 330, 000
15.00 1,000	3, 640	7, 895, 000 3, 640	1, 820, 000	6, 075, 000 1 10, 780, 000 2	. \$40 . 380	2, 160, 000 1, 910, 000	1,940 0	970, 000 90, 000	1, 190, 000 1, 820, 000	650 1, 640	1, 280, 000	0	45,000	1, 235, 000	8	Û
16,00 1,000 17,00 1,000	14,000	10, 200, 000 4, 630	5, 515, 000	4, 685, 000 1	440	1, 705, 000 1, 845, 000	180	1, 075, 000	630, 000 0	920 670	795, 000 855, 000	80 670	380, 000 655, 000	415,000 0	730	365, 000 690, 000
18,00 1,000 19,00 1,000	5,400	4, 760, 600 6, 400 6, 880, 000 3, 120	4, 415, 000	2, 465, 000 1	, 920	1, 660, 000	1,920	1, 178, 000	490,000	640 690	865, 000 890, 000	640	320,000 345,000	345, 000 345, 000	550 0	325, 000 350, 800
20, 00 1, 000	10, 840	7, 725, 000 5, 710 4, 130, 000 4, 810	5, 260, 000	2,465,000 1	, 950	1, 675, 000 1, 950, 000	1, 950	1, 185, 000 1, 950, 000	490, 000 0	690	670, 000	690	670,000	0	700 660	680, 000 700, 000
22.00 1,000	3, 450	4, 895, 000 3, 450	4, 895, DOO	0 1	1,950	2, 065, 000 2, 155, 000	1,950 2,180	2, 065, 000 2, 155, 000	<u>0</u>	650 730	690, 000 725, 000	730	690, 000 725, 000	0	740	735, 000
23.00 1,000 24.00 1,000		6, 650, 000 6, 340 8, 050, 000 6, 860	6, 380, 000	1, 670, 000 2	2, 130	1, 755, 000	2, 130	1, 290, 000	465,000 1,095,000	720 750	735, 000 785, 000	720 110	415,000 \$5,000	320,000 730,000	730	365 <u>, 000</u> 0
25.00 1.000 28.00 0	9, 140	10, 075, 000 5, 800 0 5, 400		4, 475, 000	1.490	1, 435, 000	450 230	340,000 6	0	820	0	0	0	1, 280, 000	0	0
26,00 1,000	11,350	12, 810, 000 5, 630	2, 815, 000	9, 995, 000 16, 630, 000	1, 580 2, 410	1, 995, 000 2, 535, 000	230	115,000 0	2, 535, 000	900 1,660	1, 280, 000 1, 750, 000	0	. 0	1, 750, 000		0
27,00 1,000 28,00 1,000	18, 930	18, 460, 000	950,000	17, 510, 000	2, 660	2, 625, 000 2, 375, 000	130	65,000 3,145,000	2, 560, 000 1, 230, 000		1, 700, 000 1, 150, 000	0	370,009	1,700,000 780,000	0	375,000
29.00 1,000 30,00 1,000		11,815,000 1,900 8,215,000 5,708	3, 800, 000 5, 430, 000	8,015,000 2,785,000	2, 150	1, 725, 000	2, 160	1, 125, 000	600,000	740	785, 000 755, 000	740 0	370, 000 340, 000	415,000 415,000	750	375, 000 345, 000
31,00 1,000	10, 730	7, 600, 000 5, 160 6, 250, 000 4, 470	4, 815, 000		1, 290 2, 000	1, 645, 000	90 2,000	1,045,000	600, 00 <u>0</u> 320, 00 <u>0</u>	830 680	190,000	680	340, 000	150,000	690	345, <u>000</u>
32,00 1,000 33,00 1,000	8,030	12, 165, 000 6, 13	3,065,000	9, 100, 000 28, 785, 000	670	1, 600, 000 2, 870, 000	30	15, 600 0	1,585,000 2,870,000	300 1,710	1, 905, 000 1, 935, 000	0	0	1, 935, 000	0	0
34.00 1,000 35.00 1,000		29, 970, 000	0 0	29, 970, 000	3, 210	3,075,000	0	0 000	3,075,000	2, 150	2,090,000 1,500,000	0	30 000	2, 090, 000 1, 570, 000	0	0
36.00 1,000	18,670	15, 835, 000 0 3, 40	1,700,900 0	14, 135, 000	1,750	2,345,000 0	0 180	90,000 0	0	1, 180	0	50	0	0	0	0 13, 347, 500
37.00 Sun 2 36,00	0 13,000	298, 159, 750	110, 810, 500	185, 349, 250		02, 744, 250		39, 141, 500	63, 602, 750	-	35, 333, 000		13, 312, 500	22, 020, 500		13, 342, 305
	-					4 705 000		145, 000	1, 840, 000	1 180	1, 170, 060	60	30,000	1, 140, 000	-	0
37,00 1,00	0 13,000 0 9,350	11, 175, 000 3, 49 10, 680, 000 1, 87	0 2,635,000 0 1,910,000	8, 540, 000 8, 770, 000	1,750 1,820	1, 785, 000 1, 880, 000	180 110	990,000	890,000	1, 160	1, 210, 000	0	20,000	1, 190, 000	0	0
39.00 1,00	0 12,010	15, 700, 000 1, 95	0 1,965,000	13, 735, 000	1, 940 2 550	2,245,000	1,870 170	1,020,000 85,000	1, 225, 000 2, 180, 000	1,250	1, 570, 000 1, 620, 000	40 0	20, 600 0	1,620,000	0	Ö
41.00 1.00	0 19, 390 0 16, 890	18, 140, 000 1, 98 17, 510, 000 1, 90	0 1, \$40, 000	15, 570, 000 1	1,980	2,045,000	0	9	2, 045, 000	1, 350	1, 400, 600	0	0	1, 400, 000 1, 550, 000		0
42,00 1,00 43,00 1,00	0 18, 130	20, 115, 000 1, 98 17, 450, 000 2, 25	กไว้ 55ภ.คิค	18,000,000 14,900,000	2, 380	2, 155, 000	0	\$5,000	2,060,000	1,660	1, 460, 000	70		1, 425, 004) 0	0
44.00 1,00	0 12,800	16, 365, 000 2, 85 24, 130, 000 3, 24	0 3, 045, 000	13, 320, 000 21, 370, 000		2, 365, 000 2, 765, 000	190 180	185,000 90,000	2, 180, 000 2, 875, 000	1,820	1, 870, 000	60	30,000	1,840.00	0	
46.00	0 19, 930 0 28, 330	0 2,28	0 0	0	2, 730	2, 315, 000	0	0	2, 315, 000		1,560,000	- 0	0	1, 560, 00		0
48.00 1,00 47.00	0 27 050	27, 070, 000 2, 28	ni 0	0	7, 520	0	0	0	0 19, 455, 000	1,650		0	200,000	14, 750, 00	0 0	
Sun. 3 10,00	XO .	178, 335, 000	22, 930, 000	155, 405, 000		22,065,000		2, 610, 000	13, 477, 000		15, 350, 000		100,000			
		70 00F 000 1 0	0 930,000	17, 875, 000	2 520	2, \$20, 000	0	0	2, 520, 000	1, 660	1, 685, 000	0		1, 685, 00	0 0	
	0 27, 980 0 9, 650	18, 805, 000 1, 81 0	0 0	0	2, 520	2, 475, 000	0	0		1,710	0	0	0	1,700,00	0 0	
48.00 1,00 49.00 1,00		12, 580, 000 16, 635, 000	0 0	16, 635, 000	z, 550	2, 595, 000	Ü	. 0	2, 595, 000	1,780	1, 810, 000	0	0	1, 810, 00 1, 645, 00	0 0	
50.00 1,00	10 17,750	17, 260, 000	0 420,000		2,640	2, 435, 000 3, 460, 000	100	100,000	2, 385, 000 3, 380, 000	1,570	3,020,000	120	120,000	2, 900, 00	ō ō	0
\$1,00 2,00 \$3,00 3,00	0 5, 520	8, 280, 000 1, 2	0 1,905,000	\$, 375, 000	1, 230	1, 845, 000	0			1,450	2,175,000		0	2, 175, 00	0 0	0
	0 4,850	95, 850, 000	0 0 5, 365, 000		2, /30	15, 330, 000	- 0		15, 180, 000	1,35	12, 095, 000		180,000	11, 915, 00	0	0
\$32 1 VI												<u> </u>	400 000	5 240 00	0 0	0
56,00 4,0		29, 840, 000	0 8,520,000		2,730	8, 860, 000 2, 125, 000	<u>0</u> 270		8, 320, 000 1, 990, 000		1,420,000	50	30,000	5, 280, 00 1, 390, 00	0 0	Ō
\$0.50 1,0 \$1.00 1,0	00 13, 740	11, 900, 000 4, 2 8, 625, 000 1, 1	80 1, <u>455, 000</u>	7, 170, 000	2, 550	2, 320, 000	0	475,090	1,845,000 3,690,000	1 1,800		0		1, 310, 00 2, 620, 00	0 0	0
62.00 2,0 64.00 3.0	00 3, 510	7, 250, 000 1, 7 6, 045, 000 1, 1	30 2,910,000	3, 840, 000	2,550	4, 640, 000 5, 775, 000	950 0	1, 950, 000	3, 825, 000	1,800	3, 690, 000	0	990,000	2, 700, 60		1,020,000
87.00 2,0	00 290	290,000 2	90 290,000	0	1,300	1, 650, 000 227, 500	1 1, 300			300	195,000	300	195,000		C 580	884,000
59,00 1,3 70,30	0] 0]	0 8	0 (0	0	0	0	1	19,670,00		15, 715, 000	0	2, 415, 000	10, 300, 00	0 680 0 0	
Sun. 5 14, 3	00	63, 950, 000	18, 100, 000	45, 850, 000		25, 597, 500	1=	3, 321, 301	, 13, 610, 00		10,710,000	1				-
					<u> </u>		+	 		1_	1					
1,-12					 	12, 817, 000		12, 617, 60	1		5, 492, 000	·	5, 492, 000		0	5, 532, 000
Stat. 1 11, 8 Stat. 2 36, 0	00	940, 000 295, 159, 750	940,000	185, 349, 250		107, 744, 250		39, 141, 50	0 63, 602, 75	Ö	35, 333, 000		13, 312, 500	22, 020, 50 14, 750, 00	X)	13, 347, 500
Sint 3 10, 0	00	178, 335, 000 95, 850, 000	22, 930, 000 5, 355, 000	155, 405, 000	.	22, 065, 000 15, 330, 000	Τ	150,00	0 19, 455, 00 0 15, 180, 00	<u> </u>	14, 950, 00 12, 095, 00) [180,000	11, 915, 00	ió	3, 264, 600
Sum. 4 9, 0 Sum. 5 14, 3	100	63, 950, 000	18, 160, 00	45, 850, 000		25, 597, 500 178, 353, 750	Ш		0 19, 670, 00 0 17, 907, 75		15, 715, 00 83, 585, 00		2, 415, 000 21, 539, 500	13, 300, 00 61, 985, 50		22, 143, 580
Total 81, 1		635, 234, 750	158, 145, 50	4 474, UNS, Z381	.l											
Total Excavat	tion Vol.	919, 317, 003 656, 982, 500		•			A.3-	~29								
Wet		262, 334, 500														

Station	Dis			Hard B	ock		<u> </u>		Soft R					Earth	· · · · · · ·		liad	
No.	(0)	Ao A	Vo 0	fet Al	Vet Vi	Dry V2	Ao D		Tol Al	%et Y1 9, 841, 500	Dry V2	Ao O	Yo 3, 199, 500	Ket Ai	Vet Vi 3, 199, 500	Ory Y2	Ao G	Vo 3, 199, 500
-11.10 -3.00	8, 100 4, 000		2,060,000	0	2, 050, 000	0	2, 430	9, 660, 000		9, 560, 000	0	790		790	3, 220, 000	ŏ	790	3, 220, 000
1,00	0	1,030	0	1,030	0 000 000	0	2, 400	0 19,501,500	2, 400	0 19,501,500	0	820	6, 419, 500	820	6, 419, 500	0	820	6, 419, 500
Sea. 1	12, 100		2,060,000	·	2,060,000	0		13, 101, 300		13, 401, 200			0, 413, 300		0, 113, 300			6, 413, 300
1.00		1.000	100.000	420	25 500	122, 750	2, 400	123,000	380	22, 500	100,500	1, 640	85, 000		0	85, 000	0	
1.00	1, 150	1,030 5,300	158, 250 6, 035, 000	470 950	35, 500 1, 092, 500	5,002,500	2,520	2, 893, 000	520	598,000	2, 300, 000	1,760		Ö	0	2, 024, 000	0	ŏ
2, 20	10	5, 300	53, 000	950	9, 500	43,500	2,520	25, 200 478, 800	520	5, 200 98, 800	20,000 380,000	1,760	22, 600 524, 400	0	0	22, 600 524, 400	0	<u>0</u>
2.21	190	5, 300 5, 300	1, 007, 000 53, 000	950 950	180,500 9,500	826, 500 43, 500	2,520 2,520	25, 200	520 520	5, 200	20,000	2, 760	22, 600	0	0	22, 600	0	<u>'</u>
2.41	590	5, 300	3, 127, 000	950	550, 500	2, 568, 500	2,520	1, 486, 800	520	306, 800	1, 180, 000	1,760		0	0	1, 038, 400	Ö	0
3, 60 5, 00	2,000 500	5, 300 2, 650	7, 950, 000 1, 445, 000	029	3, 600, 000 1, 445, 000		2, 520 2, 130		2 130	2, 850, 000 1, 072, 500	2,000,000 B	1,760 720	2, 480, 000 362, 500	720	720,000 362,500	1, 760, 000 0	730	730,000 367,500
5, 50	500	3, 130	1, 807, 500	3, 130	1,807,500	0	2, 150	1,010,000	2, 160	1, 610, 000	0	730	355,000	730	365,000	Ď	740	370,000
6.00	1,000	4, 100	3, 190, 000 3, 935, 000			0	1,880 2,150			2, 015, 000 2, 180, 000	0	730	725, 000 745, 000	730	725, 000 745, 000	0	740 730	735,000 755,000
7.00 8.00	1,000	2, 280 5, 590	4, 005, 000		4,005,000	0	2, 210			2, 180, 000	0	770	745,000	770	745, 000	0	780	755,000
9,00	1, 0Cô	2, 120	3, 980, 000		3, 980, 000	0	2, 158	2, 185, 000			0	720	735,000	720 750	735,000 740,000	0	730 780	755,000
10.00	1,000	5, 540 3, 210	4, 375, 000 3, 970, 000		4, 375, 000 3, 970, 000	0	2,220 2,070	2, 145, 000 2, 135, 000	2.070	2, 145, 000 2, 135, 000	0	750	740,000	730	735, 000	0	740	760,000
12.00	1,000	4, 730	4, 370, 000	4, 730	4, 370, 000	0	2, 200	2, 185, 000	2, 200	2, 185, 000	0	740	740,000	740	740, 000	0	750	750,000
13.00 13.50	500	4, 010 5, 650	2, 415, 000 2, 752, 500			0	2, 170 2, 330			1, 125, 000 1, 140, 000	0	740 780	380,000 382,500	740	380, 000 382, 500	0	750 790	385,000 387,500
14.00	1,000	5, 360	5, 075, 000	5, 360	5, 075, 000	. 0	2, 230	2, 220, 000	2, 230	2, 220, 000	0	750	745,000	750	745,000	0	760	770,000
15.00 16.00	1,000	4, 790 14, 840	9, 815, 000 15, 820, 000	4, 790	2, 395, 000 3, 305, 000	7, 420, 000 12, 515, 000	2,210 2 620		2, Z1U	1, 105, 000 145, 000	1, 310, 000 2, 000, 000	740 1, 790	1, 265, 000 1, 385, 000	710	370,000 60,000	895, 000 1, 325, 000	780 0	390, 000 N
17, 00	1,000	16, 800	12, 290, 000	6, 610	7, 195, 000	5, 095, 000	1, 670	1, 950, 000	290	1, 260, 000	690,000	980	885, 000	120	435, 000	430, 000	0	395, 000
18,00 19,00	1,000	7, 780 4, 600	6, 190, 000 8, 955, 000		6, 190, 000 5, 820, 000		2, 230 2, 190			2, 210, 000 1, 305, 000	560,000	750 740	745,000 780,000	750	745,000 370,000	330,000	790 750	770,000 375,000
20.00	1,000	13, 310	9, 785, 000	7,040	B, 650, 000	3, 135, 000	1, 540	1,875,009	420	1, 315, 000	580,000	780	775,000	0	385,000	390,000	0	390,000
21.00 22.00	1,000	6, 280 5, 010	5, 635, 000 6, 515, 000		5, 635, 000 6, 515, 000	0	2, 210	2, 210, 000 2, 260, 000	2,210	2, 210, 000 2, 260, 000	0	770 740	755,000 775,000	770 740	755, 000 775, 000	0	7 <u>80</u> 750	765, 000 785, 000
23.00	1,000	8,020	8, 280, 000		8, 280, 000	Đ	2,310	2, 340, 900	2,310	2, 349, 000	0	810	815,000	810	815,000	Ŏ	820	825, 000
24.00	1,000	8,540 11,500	10, 020, 000	8,540	7, 855, 000 8, 885, 000	2, 165, 000 5, 550, 000		1, 950, 000		1, 418, 000 349, 000	540, 000 1, 240, 000	820 850	835,000 885,000	820 110	485,000 55,000	370,000 830,000	830 D	415,000
25.00 26.00	1,000	13, 390	12, 445, 000	8, 600	6, 803, UUU	5, 350, 000	1,630	1, 550, 000	230	310,000	1, 240, 600	920	855,000	110	33, 000	330,000	ė	
26.00	1,000	13,740	15, 110, 000		3, 420, 000	11, 690, 000	1,710	2, 205, 000	230	115,000	2,090,000	1,020	1, 430, 000	6	0	1, 430, 000 1, 960, 000	0	0
27.00	1,000	16, 480 22, 190	19, 485, 000 21, 990, 000	0	1, 380, 000	19, 485, 000 20, 810, 000	2,700 2,890	2, 795, 000 2, 815, 000	0		2, 795, 000 2, 750, 000	2,080	1, 870, 000	0	0		0	0
29.00	1,000	21, 490	14, 440, 000	2, 760	5, 075, 000	9, 365, 000	2,740	2,550,000	130	1, 285, 000	1, 305, 000	1,660	1, 269, 000	0	430,000	830, 000	0	435, 300
30.00	1,000	7, 390 13, 750	10, 570, 000 9, 710, 000			3, 790, 000 3, 790, 000	1,570	2,005,000 1,925,000	2, 440	1, 265, 000 1, 185, 000	740,000	950 950	910, 000 865, 000	860	430, 000 385, 000	480, 000 480, 000	870 0	435,000 390,000
32.00	1,000	5, 670	7, 995, 000	5, 670	6, 545, 000	1, 450, 000	2, 280	1,545,000	2, 280	1, 155, 000	390,000	770	585,000	770	385,060	200,000	780	350.000
33, 00 34, 00	1,000	10, 320 19, 140	14, 730, 000 32, 650, 000	7, 420	3,710,000	31, 920, 900 32, 650, 900	2.780		30	15,000	1, 780, 000 3, 100, 000	1,900	1, 150, 600 2, 115, 000	0	0		0	- v
35.00	1,000	46, 150	34, 270, 000	0	9	34, 270, 000	3, 420	3, 360, 000	Ô	0	3, 350, 000	2,330	2, 275, 000	0	0	2, 275, 000	0	0
36.00 37.00	1,000	22, 380 15, 310	18, 845, 500 D	3,680	1, 840, 000	17,005,000	3,300 1,910	2, 605, 000 D	200	100,000	2,505,000 0	2, 220 1, 320	1, 770, 000	100	50,000	1,720,000	0	
	35, 000	19, 910	365, 308, 250	4, 600	148, 203, 000	217, 105, 250	4, 415	80, 815, 500			34, 455, 500		39, 647, 000		15, 030, 000	24, 617, 000	Ō	15, 025, 000
									ļ	ļ	3 A A	<u> </u>			:			
37,00	1,000	15, 310	13, 580, 000	3, 680	2, 905, 000	10, 675, 000		2, 010, 000	200	155, 000	1, 855, 000	1, 320	1, 330, 000	100	50, 000	1, 280, 000	0	0
38.00	1 633	11, 850 15, 260	19, 400, 000	2, 130	2 295 000	17, 015, 000	2, 110	2, 385, 000	110	85,000	2, 300, 000	1,340	J, 760, 000	; 0 (0	20,000	1,740,000	0	0
40.00	1,000	23, 540		2, 220	2, 385, 000	17, 810, 000	2,550		1/0	03,000	2, 405, 000	2,060	1,800,000	0	0	1, 800, 000	0	0
41.00		16, 890	19, 305, 000			16, 985, 000	2,260 2,380	2, 320, 000 2, 440, 000	0	0	2, 329, 600 2, 440, 600		1, 580, 000 1, 640, 000	0	0	1, 580, 000	0	0
42,00 43,00	1,000	21, 720 28, 750	24, 240, 000 21, 770, 000	2, 380 2, 500	2, 440, 000 2, 350, 000	21, 800, 000 19, 420, 000	2, 500	2, 350, 000	- 0	95,000		1,650		0	0		Ö	. 0
44.00	1,000	16, 780			2, 635, 000	18, 355, 000	2, 200		190	185,000	2, 450, 000			0	30,000		0	0
45, 00 45, 00	1,000	25, 200 33, 070	29, 135, 000 0	2,730	2, 900, 000	26, 235, 000	3,070 2,730	2, 900, 000 C	180	\$0,000	2, 810, 000 0		1,965,600	60	30,660	1,935,000		0
45, 60	1,000	31,090	31, 215, 000	2,390		28, 640, 000			0	0			1,700,000	0	0	1, 700, 000	0	Ŏ
47, 00 Sun. 3	9,000	31, 340	199, 850, 000	2,760	22, 915, 000	176, 935, 000	2, 760	22, 020, 000	0	610,000	21, 410, 000	1, 840	15, 340, 000	0	130,000	14, 910, 000	0	<u>u</u>
			,,		,						-77 -111 12							
47.00	4,000	31. 340	85, 420, DOO	2, 760	5, 520, 000	80, 900, 000	2,760	11, 140, 000	0		11, 140, 000	1,840	7, 450, 000	. 0	0	7, 460, 000	Ő	0
48.00	0	11,870	0	0	0	0	2,810	0	0	0	. 0	1, 890	Ó	0	o o	0	Û	0
48.00 49.00		11,720 41,530	26, 625, 000 31, 210, 000	0	0	26, 625, 000 31, 210, 000			0		2, 845, 000	1, 960		0	0		0	0
50,00	1,000	20, 890	19, 905, 000	. 0	735, 000	19, 170, 000	2, 910	2, 640, 000	0		2,590,000		1, 855, 000	0		1,790,000	0	0
51,00 53,00		18, 920 9, 980	28, 900, 000 0	1,470	2,740,000	26, 160, 000	2, 170	4, 840, 000	100	100,000	4, 740, 000	2 490	4, 160, 000 0		1,91,000	4,030,000 0	0	0
56.00	Û	4, 850	0	70	O O	. 0	4,030	Ō		. 0	0	1, 290	0	0	0	0	Ō	Ō
Sum 4	9,000		193, 650, 000		8, 995, 000	184, 065, 000	L	24, 190, 000		150,000	24, 040, 000		17, 355, 000		143,000	17, 160, 000		0
56.00	4,000	4, 860	34, 820, 000	30	9, 860, 000	94 000 000	4.020	12, 020, 000	0	5/0 000	11, 480, 000	1 100	5, 060, 000	B	120 000	4, 940, 000	0	0
56.00 60.00	1,000	12,550	14, 380, 000	4, 860	3, 120, 000	11, 260, 006	1,950	2, 385, 000	270	135,000	2, 259, 000	1, 240	1, 570, 000	60	30,000	1,540,000	0	0
61.00		16, 210	10, 500, 000					2,605,000			2,139,000 2,700,000					1,470,000	0	0
	2,000 3,000		11, 330, 000 10, 695, 000	3,040	5, 100, 000 5, 745, 000	6, 230, 000 4, 350, 000	1, 250	3, 670, 000 4, 740, 000			1,845,000	740	2, 250, 000	0		1, 110, 000	0	1, 170, 000
67, 00	2,000	790	790,000	790	790,000	0	1,910	4, 320, 000	1, 916	4, 320, 000	0	760	1, 600, 000	760	1,600,000	Q.	780	1, 620, 000
73.50	4,500	- 0	0	0	0	0	2,410 0	5, 422, 500		5, 422, 500 D			1,890,000	840	0	0	810	1, 890, 000 0
Sus. 5			82, 615, 000	ļ	26, 335, 000	55, 280, 600		35, 152, 500			20, 405, 000		15, 749, 000			10, 840, 600	0	4, 680, 000
 	 	 	 			 	<u> </u>		 	 		 	-	-	-	 		
L-15									Γ						1 1 1 1 1 1	ļ		
Sun. 1	12, 100		2, 060, 000		2, 860, 000	0		19,501,500		19, 501, 500	0		8, 419, 500		6, 419, 500	0		6, 419, 500
Sunt. 2 Sunt. 3	36,000 9,000		365, 308, 250 199, 850, 000		148, 203, 000 22, 915, 000	217, 105, 250 176, 935, 000		80, 819, 500 22, 020, 000			34, 455, 500 21, 410, 000	ļ	39, 647, 000 15, 048, 000		15, 030, 000	24, 617, 000 14, 910, 000		15, 025, 000 C
Sun 4	9,000		193, 060, 000		8, 995, 000	184, 065, 000		24, 190, 000		150,000	24, 040, 000		17, 355, 000		195,000	17, 160, 000		0
Sum 5			82, 815, 000 842, 893, 250		26, 335, 000	56, 280, 000 634, 385, 250	 	35, 162, 500 181, 693, 500			20, 405, 000 100, 310, 500	 	15, 740, 000 94, 201, 500		4, 900, COO	10, 840, 000 67, 527, 000	 	4, 680, 000 26, 124, 500
tòrai	1 03, 900		016,033,630	-	<u>,,,</u>	1 4011 909 640	'	101, 634, 30U	-	1 41, 303, 000	2 DO 410, 400		1 41, 101, 300	 -	1 50,014, 300	1 41, 261, 000	ـــــ	en' ita 900

Dry 802, 222, 750

Ret 342, 690, 000