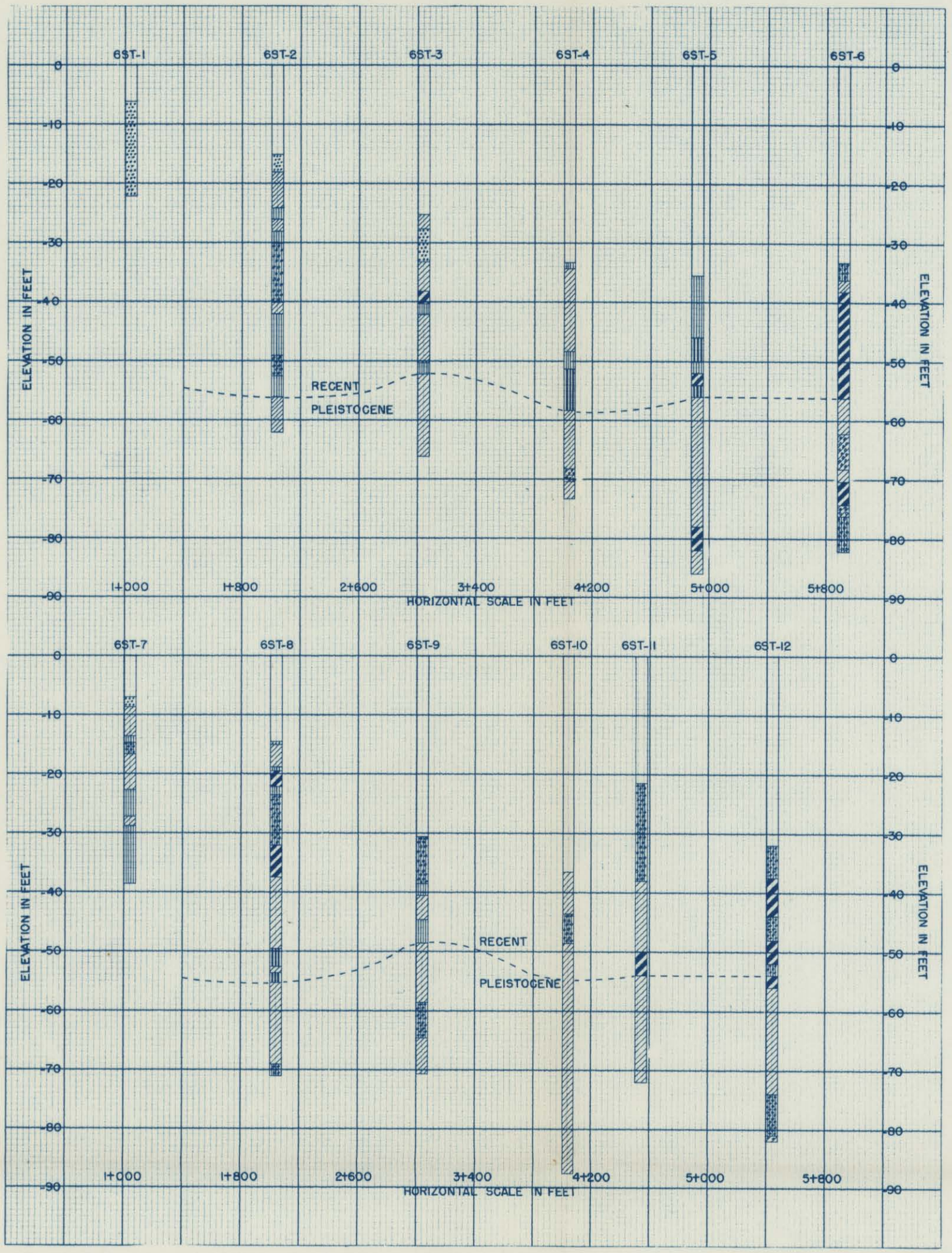

LEGEND

- WATER
- POORLY-GRADED SANDS
- SILTY SANDS
- CLAYEY SANDS
- INORGANIC SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
- INORGANIC SILTS OR ELASTIC SILTS
- LEAN CLAYS, SILTY CLAYS, & SANDY CLAYS
- FAT CLAYS OF HIGH PLASTICITY

RECENT

RECENT-PLEISTOCENE CONTACT, FAIR CORRELATIONS

PLEISTOCENE

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: M.D.S.	PORT ISABEL, TEXAS
GEOLOGY BY: M.D.S.	BRAZOS ISLAND HARBOR JETTIES
CHECKED BY: R.E.M.	GEOLOGIC CROSS SECTIONS
SUBMITTED BY: Ralph E. Mercier CHIEF, GEOLOGY SUB-SECTION	
CHIEF, FDN. & MTLS. BRANCH	CHIEF ENGINEERING DIVISION
	DATE 3 JAN. 1963
	SCALE: AS SHOWN
	SPEC. DATE
	DRAWING NUMBER
	PLATE NO. 2
	FILE NO.

BRAZOS ISLAND HARBOR, TEXAS
SUMMARY OF UNCONFINED COMPRESSION DATA

TABLE NO. 1

DISTRICT SERIAL NO	HOLE NO	DEPTH FT.	MECHANICAL ANALYSIS Gr	Sa	Fines	LL	bar LS	NATURAL WATER CONTENT, %	U.D.W. p.c.f.	% STRAIN @ MAX. STRESS	MAX. STRESS LBS./sq. ft.	POCKET PENET.	CLASSIFICATION
62-6222	6ST-4	40.0-42.0	0	1	99	39.6	15.0	43.6	76.3	11.96	1496 748	.25	G,Cl(CL), So
62-6229	6ST-4	56.0-58.0	0	1	99	56.3	13.0	33.6	85.8	10.50	2349 1175	.50	G,Si(MH), med
62-6235	6ST-4	68.0-70.0	0	21	79	40.9	12.0	22.8	102.5	4.20	3474 1737	3.25	G,SaCl(CL), v/st
62-6246	6ST-5	54.0-56.0	0	1	99	52.8	14.0	45.9	75.0	14.75	2236 1118	1.5	G,Cl(CH), St
62-6253	6ST-5	68.0-70.0	0	12	88	47.5	14.0	27.7	96.9	3.50	2276 1138	2.0	G,Cl(CL), v/st.
62-6258	6ST-5	78.0-80.0	0	5	95	29.5	7.5	22.6	100.6	3.50	5520 2760	3.50	Ru,Cl(CL), v/st
62-6264	6ST-6	40.0-42.0	0	0	100	51.0	19.0	51.2	72.7	10.50	1243 622	0.0	G,Cl(CH), v/so
62-6272	6ST-6	58.0-60.0	0	23	77	36.8	12.0	21.3	105.0	2.80	6103 3052	3.50	G,SaCl(CL), v/st
62-6253	6ST-9	44.0-46.0	0	0	100	33.0	7.0	33.3	91.3	14.75	930 465	0.0	G,Cl(CL), v/so
62-6239	6ST-9	56.0-58.0	0	42	58	25.3	5.0	22.5	104.3	8.40	* 1432 716	.25	Lt G,SaCl(CH), So
62-6353	6ST-10	54.0-56.0	0	25	75	38.4	9.0	32.3	84.9	11.20	* 2173 1087	.75	G,SaCl(CL), med
62-6363	6ST-10	74.0-76.0	0	10	90	36.2	9.0	21.5	105.2	2.10	1343 672	3.0	G,Cl(CL), v/st
62-6380	6ST-11	52.0-54.0	0	4	96	53.0	15.0	49.8	73.7	9.1	2707 1354	.75	D,Cl(CH), med
62-6385	6ST-11	62.0-64.0	0	24	76	41.3	12.0	20.1	108.0	4.2	3049 1525	3.0	G,SaCl(CL), v/st
62-6398	6ST-12	50.0-52.0	0	0	100	66.2	18.0	37.9	83.4	2.8	1206 603	1.25	G,Cl(CH), st.
62-6404	6ST-12	62.0-64.0	0	36	64	35.3	10.0	22.3	103.9	5.6	4341 2171	1.75	G,SaCl(CL), st.

Brazos Island Harbor Jetty

TEST DATA SUMMARY

Sheet ____ of ____

FEATURE Log of Soil Boring

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	D_{10}*	ATTERBERG LIMITS LL	PL*	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_F %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_{III} T/SQ FT	σ_I T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY e	K FT/MIN	CONSOLIDATION DATA P_o T/SQ FT	P_c T/SQ FT	C_c	t_{50}*	REMARKS
6ST 9	-62- S	0.0											Water																				
	6329	32.0	SM	2	76	22			0.0		44.6		Black Silty Sand (SM)																				
	6330	36.0	SM	0	77	23			1.0		28.3		Black Silty Sand (SM)																				
	S	38.0											Driller's classification: Same as Above.																				
	6331	40.0	ML	0	15	85		454	9.5		42.1		Gray Sandy Silt (ML) Medium																				15/41'-42'
	6332	42.0	CL	0	33	67	0.0	389	12.0		31.4	86.5	Gray Sandy Clay (CL) Very Soft																				
	6333	44.0	Same as 6332				0.0				(32) 33.3	91.3	Gray Sandy Clay (CL) Very Soft																				
	6334	46.0	ML	0	11	89	1.0		1.0		26.5	98.7	Gray Silt (ML) Stiff																				
	6335	48.0	Same as 6334				2.0				(25) 23.6	102.7	Gray Silt (ML) Very Stiff																				
	6336	50.0	CL	0	6	94	1.5	454	13.5		39.8	79.3	Gray Clay (CL) Stiff																				
	6337	52.0	Same as 6336				0.75				26.1	99.2	Gray Clay (CL) Medium																				
	6338	54.0	CL	0	26	74	0.5	30.9	6.5		(34) 25.8	100.4	Gray Sandy Clay (CL) Medium																				
	6339	56.0	Same as 6338				0.25				22.5	104.3	Lt. Gray Sandy Clay (CL) Soft to Medium																				
	6340	58.0	ML-CL	0	48	52	0.5	21.8	4.5		24.0	100.3	Tan Sandy Silty Clay (ML-CL) Medium																				
	6341	60.0	SM	0	58	42	1.0		2.5		23.0	100.4	Tan Silty Sand (SM)																				
	6342	62.0	Same as 6341				1.0				28.4		Lt. Gray Silty Sand (SM)																				
	6343	64.0	Same as 6341				1.25				(34) 21.7	104.4	Gray Silty Sand (SM)																				
	6344	66.0	CL	0	6	94	1.5	44.0	12.0		18.5	110.0	Gray Clay (CL) Stiff to v/stiff																				
	6345	68.0	Same as 6344				3.25	17.0	10.5		21.8	106.3	Gray Clay (CL) Very Stiff																				
	6346	70.0	CL	0	23	77	3.50	34.5	10.0		(20) 20.7	107.5	Tan Sandy Clay (CL) Very Stiff																				
		72.0											Bottomed In Above																				

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression

DS - Direct Shear
UU - Unconsolidated Undrained

- Consolidated Drained
CU - Consolidated Undrained

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