TABLE I (CON'D)

TEST DATA SUMMARY
BRAYS BAYOU CHANNEL RECTIFICATION
SUMMARY OF IDENTIFICATION TESTS

BORING NO.	Elev.	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 BLS
6ST-	64.7	0.0-	CL	0	21	79		45			18	106																					16
122		10.5		Brown to Gray Sandy Clay, hard, calcareous																													
		10.5-	CL	0	28	72		32			16	109																					8
		19.5		Tan to Light Gray Sandy Clay, hard, calcareous																													
		19.5-	CL	0	23	77		46			23	102																					16
		24.5		Tan to Light Gray Sandy Clay, firm, crumbly																													
		24.5-	SM	0	99	1					26																						0
		32.5		Light Gray Sand, soft, watery																													
		32.5-	CL	0	10	90		42			17	113																					16
	24.7	40.0		Tan to Light Gray Clay, hard, calcareous																													
6ST-		0.0-	CH	0	21	79		52			28	98																					16
123		2.0		Brown Sandy Clay, stiff to hard, with roots																													
		2.0-	CL	2	44	54		32			13	114																					10
		6.0		Tan to Light Gray Sandy Clay, hard, calcareous concretions																													
		6.0-	CL	0	21	79		41			16	109																					14
		16.0		Tan to Light Gray Sandy Clay, stiff to hard																													
		16.0-	ML	0	47	53					19	105																					2
		19.0		Light Gray Sandy Silt, firm																													
		19.0-	SM	0	83	17					27																						0
		23.0		Light Gray Silty Sand, soft, watery																													
		23.0-	CH	0	6	94		52			24	103																					20
		29.5		Tan to Light Gray Clay, hard																													
		29.5-	CL	0	11	89		43			18	110																					16
		31.0		Light Gray to Rust Clay, hard, calcareous																													
		31.0-	CL	0	32	68		29			21	98																					9
		32.5		Light Gray to Rust Sandy Clay, plastic																													
		32.5-	CL	0	8	92		45			20	108																					18
		40.0		Tan to Light Gray Clay, hard, calcareous																													
8A-		0.0-	CL	1	19	80		39			19																						16
124		13.5		Brown to Gray Clay, hard, calcareous																													
		13.5-	CL	1	39	60		30			14																						9
		18.0		Tan to Light Gray Sandy Clay, hard, calcareous																													
		18.0-	SM	0	82	18					29																						0
		21.0		Tan Silty Sand, soft, wet																													
		21.0-	SP	0	95	5					30																						0
		29.5		Tan Sand, soft, watery																													
		29.5-	CL	0	8	92		45			18	114																					17
		40.0		Rust to Light Gray Clay, hard, calcareous																													
6ST-		0.0-	CL	0	14	86		44			17	108																					16
125		13.5		Tan to Light Gray Clay, hard to stiff, calcareous																													
		13.5-	CL	0	27	73		31			17	110																					8
		25.0		Tan to Light Gray Sandy Clay, stiff, calcareous																													
		25.0-	ML	0	41	59					28																						1
		29.0		Light Gray to Rust Sandy Silt, soft, watery																													

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression

DS - Direct Shear
UU - Unconsolidated Undrained

- Consolidated Drained
CU - Consolidated Undrained

TABLE I (CON'D)

TEST DATA SUMMARY
BRAYS BAYOU CHANNEL RECTIFICATION
SUMMARY OF IDENTIFICATION TESTS

BORING NO.	Elev.	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_{FI} 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 BLS
6ST-		29.0-	SP	0	98	2					30																						0
125		32.0		Tan Sand, soft, watery																													
(Con'd)		32.0-	CL	0	8	92		41			19	112																					15
		40.0		Light Gray to Rust Clay, hard, calcareous																													
6ST-		0.0-	CL	0	16	84		44			17																						16
126		8.0		Gray to Rust Clay, hard, with roots																													
		8.0-	CL	3	35	62		33			16																						12
		17.5		Tan to Light Gray Sandy Clay, hard, calcareous																													
		17.5-	SM	0	82	18					8																						1
		21.0		Light Gray Silty Sand, loose																													
		21.0-	SP	0	92	8					33																						0
		35.0		Tan to Rust Sand, soft, watery																													
		35.0-	CH	0	3	97		54			24	100																					22
		39.0		Tan to Rust Clay, hard, calcareous																													
		39.0-	CL	0	11	89		47			19	108																					19
		41.0		Rust Clay, hard, calcareous																													
6ST-		0.0-	CL	0	22	78		29			11	115																					10
127		2.0		Gray Sandy Clay, hard																													
		2.0-	CL	0	14	86		40			17	110																					15
		12.0		Tan to Light Gray Clay, hard, calcareous																													
		12.0-	CL	0	24	76		26			19	105																					6
		15.0		Tan to Rust Sandy Clay, hard, calcareous concretions																													
		15.0-	SM	0	61	39					6																						0
		18.0		Rust Silty Sand, loose																													
		18.0-	CL								21																						
		20.0		Rust Sandy Clay, firm, calcareous																													
		20.0-	SM	0	80	20					34																						0
		32.0		Rust Silty Sand, soft, watery																													
		32.0-	CH	0	4	96		59			23	105																					22
		38.0		Tan to Rust Clay, hard, calcareous																													
		38.0-	CL	0	8	92		48			20	109																					18
		41.0		Rust to Light Gray Clay, hard, calcareous																													
8A-		0.0-	CL	1	16	83		40			18																						14
152		11.5		Light Gray to Brown Clay, hard																													
		11.5-	CL	2	15	83		28			16																						8
		19.5		Light Gray to Rust Clay, firm to hard																													
		19.5-	ML	0	27	73					40																						0
		26.5		Tan Sandy Silt, soft, watery																													
		26.5-	SM	0	82	18					36																						0
		32.5		Rust Silty Sand, soft, watery																													
		32.5-	CH	0	5	95		56			22	106																					20
		36.0		Tan to Rust Clay, hard, calcareous																													
		36.0-	CL	0	5	95		48			19	113																					18
		40.0		Rust Clay, hard, calcareous																													

* Values at Pressure T/SQ FT

– Triaxial Compression
UC – Unconfined Compression
DS – Direct Shear
UU – Unconsolidated Undrained
– Consolidated Drained
CU – Consolidated Undrained

CHANNEL RECTIFICATION
BRAYS BAYOU

SUMMARY OF IDENTIFICATION TESTS ON SAMPLES FOR SHEAR AND CONSOLIDATION TESTS
HOUSTON, TEXAS

TABLE 1

ADDENDUM NO. 16

BORING NO	SAMPLE DEPTH FT	DISTRICT SERIAL NO	DENSITY DATA M. C., %	DENSITY DATA U.D.W. lbs/cu.ft.	SPECIFIC GRAVITY	ATTERBERG LIMITS L.L.	ATTERBERG LIMITS P.L.	ATTERBERG LIMITS P.I.	BAR L.S.	SIEVE ANALYSIS Gr.	SIEVE ANALYSIS Sa.	SIEVE ANALYSIS Fines	CLASSIFICATION
6ST-143	4.0- 6.0	57-3576	28.5	93.3	2.75	61.3	19.9	41.4	22.0	0	14	86	Lt Ru-L, Cl(CH), Hd, SL
6ST- 98	23.5-25.0	57-2669	19.1	109.9	--	31.2	20.7	10.5	6.0	0	32	68	Lt, SaCl(CL), Hd
6ST-109	13.0-15.0	57-2646	13.4	113.7	--	32.6	12.0	20.6	10.5	0	20	80	T-L, Cl(CL), Hd
6ST-111	24.0-26.0	57-3060	18.6	111.5	--	45.8	12.6	33.2	18.0	0	10	90	T-L, Cl(CL), Hd
6ST-118	9.0-11.0	57-3352	20.8	105.8	--	39.3	12.5	26.8	13.0	0	22	78	L, Cl(CL), Hd
6ST-125	11.5-13.5	57-3777	23.6	98.6	--	49.5	14.1	35.4	16.0	0	8	92	L-D, Cl(CL), St
6ST-137	27.5-29.5	57-3540	20.6	106.3	--	45.7	12.9	32.8	15.5	0	11	89	Ru-T-L, Cl(CL), v/st
6ST-143	2.0- 4.0	57-3575	26.8	94.6	--	56.2	18.8	37.4	20.0	0	9	91	G, Cl(CH), Hd
6ST-155	29.0-30.5	57-4095	24.2	94.1	--	60.3	16.1	44.2	23.0	0	6	94	T-L,Cl(CH), v/st. Calc
6ST-158	10.0-12.0	57-3819	18.8	109.9	--	34.8	11.3	23.5	11.0	0	40	60	T-L, SaCl(CL), St.
6ST-162	26.0-27.5	57-3913	24.4	105.9	--	49.5	13.1	36.4	19.0	0	9	91	T-L, Cl(CL), Hd, Sl

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CHANNEL RECTIFICATION
BRAYS BAYOU
SUMMARY OF DIRECT SHEAR TEST DATA
HOUSTON, TEXAS

TABLE 2

ADDENDUM NO. 16

BORING NO.	SAMPLE DEPTH FT.	DISTRICT SERIAL NO.	DENSITY DATA M. C., %	DENSITY DATA U.D.W.* lbs/cu.ft.	DIRECT SHEAR TEST DATA Maximum Ø	Maximum c.Tons/Sq.Ft.	Ultimate Ø	Ultimate c.Tons/Sq.Ft.
6ST-109	13.0-15.0	57-2646	11.1	107.6	27.49	.05	23.82	.05
6ST-143	2.0- 4.0	57-3575	25.1	92.7	16.4	.34	16.3	.16
6ST- 98	23.5-25.0	57-2669	18.5	105.5	34.17	.05	32.46	.05
6ST-111	24.0-26.0	57-3060	18.1	112.0	20.82	.70	15.05	.38
6ST-118	9.0-11.0	57-3352	19.9	104.7	18.43	.45	20.47	.10
6ST-125	11.5-13.5	57-3777	24.7	93.3	18.43	.25	18.43	.10
6ST-137	27.5-29.5	57.3540	20.7	102.3	27.23	.26	23.62	.12
6ST-155	29.0-30.5	57-4095	23.9	97.0	13.85	.55	14.00	.48
6ST-158	10.0-12.0	57-3819	17.5	110.0	21.13	.60	20.8	.40
6ST-162	26.0-27.5	57-3913	18.5	109.2	9.6	1.24	12.4	.60
6ST-143	2.0-4.0	57-3575	25.1	92.7	16.4	0.34	16.3	0.16

* Average of 3 specimens

District Laboratory Report No. 627

CHANNEL RECTIFICATION
BRAYS BAYOU

TEST DATA SUMMARY

FEATURE Log of Soil Borings

TABLE 1

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	★	ATTERBERG LIMITS L.L.	P.L.	BAR L.S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
8A-	57-	18.0		1-1-90								
124	3853		0	82	18	—	—		0.0	29.2	—	T, Si Sa (SM), So, We, So Nods. 29
Cont'd		21.0		0-0-95								
	3854		0	95	5	—	—		0.0	29.6	—	T, Sa (SP-SM), So, We. 30
		29.5										
xx	3855		0	6	94	4.0	45.4		17.0	18.0	108.6	Ru-L, Cl (CL), Hd, Calc.
		31.5								8.98	56.76	
xx	3856					4.5+				21.9	110.6	Ru-L, Cl (CL), Hd, Calc.
		33.5										
xx	3857					4.5+				17.5	115.0	L-Ru-Br, Cl (CL), Hd, Calc. 18
		35.5										
xx	3858		0	11	89	4.5+	45.1		18.0	14.9	118.8	L-Ru-Br, Cl (CL), Hd, Calc.
		37.5										
xx	3859					4.5+				17.5	114.6	L-Ru-Br, Cl (CL), Hd, Calc.
		40.0										
		BOTTOMED AT 40.0' IN L-Ru-Br, Cl (CL), Hd, Calc.										
		NOTE: WATER AT 17.5'										
		HOLE CAVED AT 17.5'										
										17	108	
6ST-	57-	0.0								2)11.76	757.4	
125	3771		0	18	82	2.6	—		—	10.9	105.9	D, Cl (CL), Hd, Fe, w/Pts, Oily
		2.0										
	3772		0	12	88	4.5+	41.6		14.5	12.9	119.4	D-G, Cl (CL), Hd, Fe.
		4.0										
	3773		0	17	83	4.5+	41.9		15.0	15.8	109.2	T-L, Cl (CL), Hd, Fe, Calc. 17
		6.0										
	3774		0	11	89	4.5+	45.7		16.5	17.4	110.3	T-L, Cl (CL), St-Hd, Calc, w/s; Pks.
		8.0										
	3775			68		4.5+	176.4		6.4 0	17.4	109.6	T-L, Cl (CL), St-Hd, Calc, w/s; Pks.
		10.0					49		16			
	3776					3.75				19.6	104.4	T-L, Cl (CL), St-Hd, Calc, w/s; Pks.
		11.5										
	3777		0	10	90	2.5	47.0		16.0	23.6	98.6	Ru-L, Cl (CL), St, Calc, w/s; Pks.
		13.5										
	3778		0	26	74	2.25	33.1		9.0	20.2	106.8	T-L, Sa Cl (CL), F, Calc, Conc.
		15.0										
	3779		0	32	68	3.0	24.0		5.0	13.9	116.2	L, Sa Cl (CL), F, Calc.
		16.5										
	3780		3	29	68	3.5	30.8		9.0	14.7	115.4	L, Sa Cl (CL), St, Calc.
		18.0										
	3781		0	26	74	2.0	29.8		7.0	15.9	107.7	T-L, Sa Cl (CL), St, Calc. 17
		19.5										
	3782			61/61		4.4	184.3		46	16.5	112.5	T-L, Sa Cl (CL), St, Calc.
		21.0		27			31		8			
	3783					4.2				15.8	113.2	T-L, Sa Cl (CL), St, Calc.
		22.5										
	3784		0	20	80	2.5	37.3		10.0	19.3	104.7	Ru-T-L, Cl (CL), St.
		23.5	0	28	72		29.3		6.0	20.1	106.9	

★ - Laboratory Penetrometer Readings.
xx — 3" Shelby Tube Samples.

8)13564 / 17 883 4 / 110

DLR-627

CHANNEL RECTIFICATION

BRAYS BAYOU

TEST DATA SUMMARY

FEATURE Log of Soil Borings

TABLE 1

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	★	ATTERBERG LIMITS LL	PL	BAR L.S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU.FT.	LABORATORY CLASSIFICATION
6ST-125 Cont'd	57-3785	23.5	0	28	72	2.1	29.3		6.0	20.1	106.9	Ru-L, SaCl(CL), Pl-F, Calc.
	3786	25.0	0	41	59	—	—		1.0	28.1	—	L-Ru, SaSi(ML), So, Wa. 28
	3787	29.0	0	~~0-0-98~~ 98	2	—	—		0.0	30.3	—	T, Sa(SP-SM), So, Wa, COARSE. 30
	3788	32.0	0	8	92	4.3	40.9		15.0	19.3	110.9	L-Ru, Cl(CL), Hd, Calc.
	3789	38.5				4.5				18.5	112.3	L-Ru, Cl(CL), Hd, Calc. 19
		40.0										
		BOTTOMED AT 40.0' IN L-Ru, Cl(CL), Hd, Calc.										
		NOTE: WATER AT 20.7'										
8A-126	57-3935	0.0	0	15	85	—	49.1		17.0	17.6	—	G, Cl(CL), Hd, W/Rts.
	3936	2.5	0	17	83	—	39.0		14.5	15.9	—	L-LtRu, Cl(CL), Hd, Fe. 17
	3937	8.0	6	30	64	—	35.7		13.0	15.3	—	T-L, SaCl(CL), Hd, Calc. Nods.
	3938	13.5	0	41	59	—	31.2		11.0	16.3	—	L-LtBr, SaCl(CL), Hd, Calc. 16
	3939	17.5	0	~~0-0-82~~ 82	18	—	—		1.0	8.1	—	L, SiSa(SM), Lo, Mo. 8
	3940	21.0	0	~~0-0-95~~ 95	5	—	—		0.0	31.9	—	T-Ru, Sa(SP-SM), So, Wa. 35
	3941	29.0	0	~~0-0-89~~ 89	11	—	—		0.0	34.4	—	LtRu, Sa(SP-SM), So, Wa. 33
xx	3942	35.0	0	3	97	4.5+	54.3		22.0	24.7	97.5	L-LtBr, Cl(CH), Hd. 25
xx	3943	37.0				4.5+				22.3	102.7	Ru, Cl(CL), Hd, Calc. 24
xx	3944	39.0	0	11	89	4.5+	46.8		19.0	19.1	107.5	Ru, Cl(CL), Hd, Calc. 19
		41.0										
		BOTTOMED AT 41.0' IN Ru, Cl(CL), Hd, Calc.										
		NOTE: Hole Bailed to 21.0' Hole Caved to 21.0' Water Level at 21.0'										

★-Laboratory Pentrometer Readings.

xx- 3" Shelby Tube Samples.

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