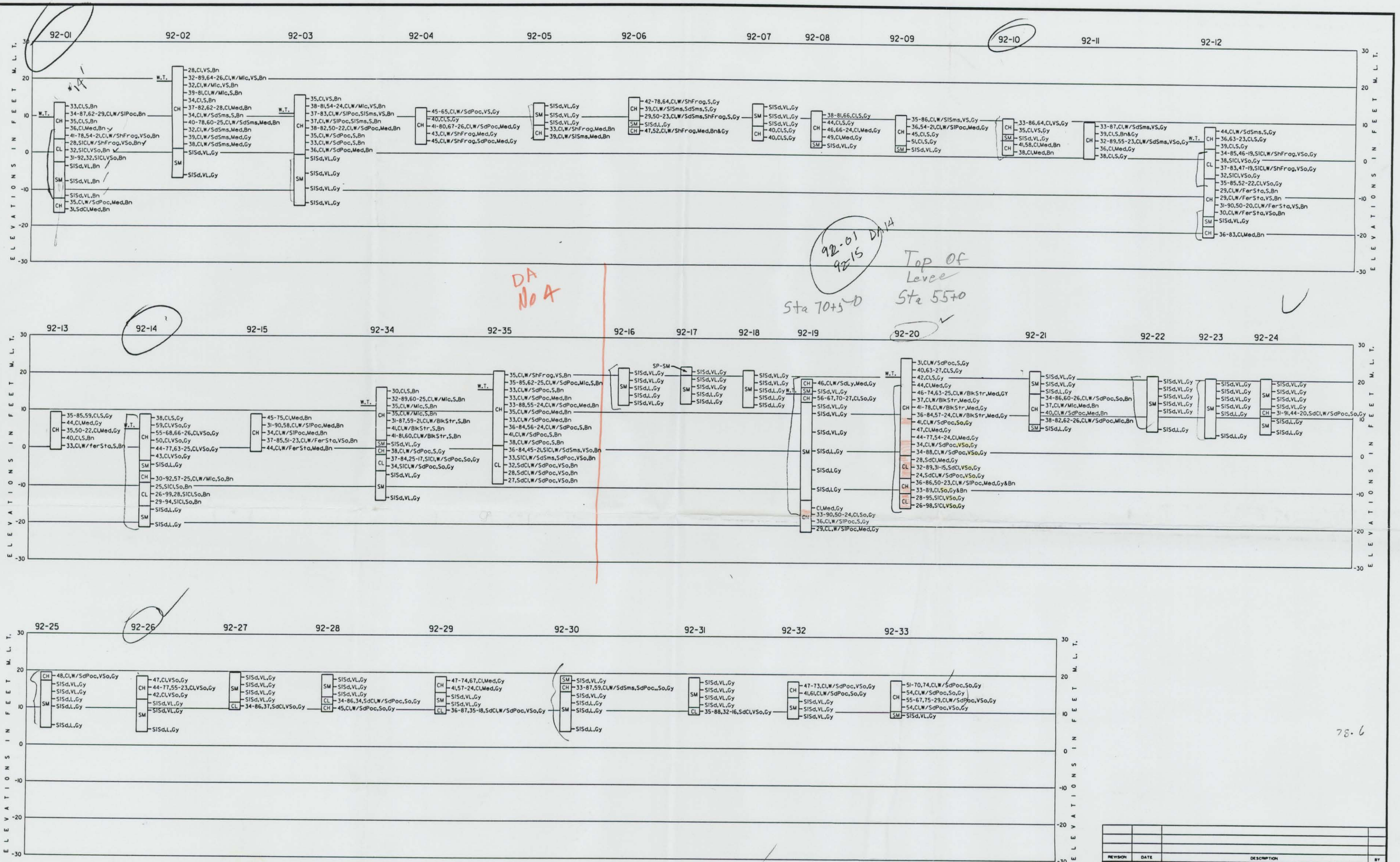




NOTE: SEE DRAWING NUMBER F-6 FOR SOILS NOTES.

REVISION		DATE	DESCRIPTION	BY
OFFICE OF THE DISTRICT ENGINEER U.S. ARMY ENGINEER DISTRICT, GALVESTON CORPS OF ENGINEERS GALVESTON, TEXAS				
DRAWN BY: P.B.S.		Brazos Island Harbor, Texas Brownsville Channel Dredging Inshore Reach No. 1 DISPOSAL AREAS Nos. 2 & 4 BORING LOGS		
CHECKED BY: J.T.F.		DATE: MAY 1992		
SUBMITTED BY: [Signature]		APPROVED BY: [Signature]		
Prepared under the direction of Brink P. Miller, Col., C.E., District Engineer		SCALE: AS SHOWN SPEC. DATE: DRAWING NUMBER F-7 SHEET 14 OF 17 FILE NO. RID 901-240		

U.S. ARMY CORPS OF ENGINEERS

Boring Log Data					
DEPTH, FEET		SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	
BORING NO. <u>92-29</u> DATE: BEGIN <u>3-17-92</u> PAGE <u>1 / 1</u> JOB NO. <u>146535</u> COMPLETE <u>3-17-92</u> Thin Walled Tube PROJECT <u>Brownsville Disp. Area #2</u> ☒ 3" ☐ 6" LOCATION <u>"</u> <u>Ship Channel</u> ELEVATION OF HOLE _____ MANUFACTURER'S DESIGNATION OF DRILL RIG <u>HRDCO-C-1000</u> GROUNDWATER: DEPTH <u>2 1/2</u> ft., ELEV. _____ ft., at end of Drilling WEATHER <u>Cloudy-Warm-T-Showers</u> DRILLER <u>D. Mitchell</u> LOGGER <u>J. Belfrage</u>					
COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS	
Gray	Clay	Soft		w/SA S&S	
"	"	Soft			
Tan	Sand	Very loose		SA. At 4'	
Gray	"	"			
Gray	Clay	Soft	Si/H	Si. cl. at 8'	
Bottom of 92-29 10'					

SUMMARY OF LABORATORY TEST RESULTS

21. 19.9

S #: Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

Geotest Engineering, Inc.

JOB NO. 14G538

DATE 4/9/92

PROJECT Disposal Areas Nos.2 and 4 for Brownsvill Ship Channel, Brown

BORING NO. 92-29

SAMPLE NO. 5

DEPTH 8-10 ft

SPECIMEN NO. 1

CLASSIFICATION

Gray, Clay, Very soft, Sandy, w/sand pockets

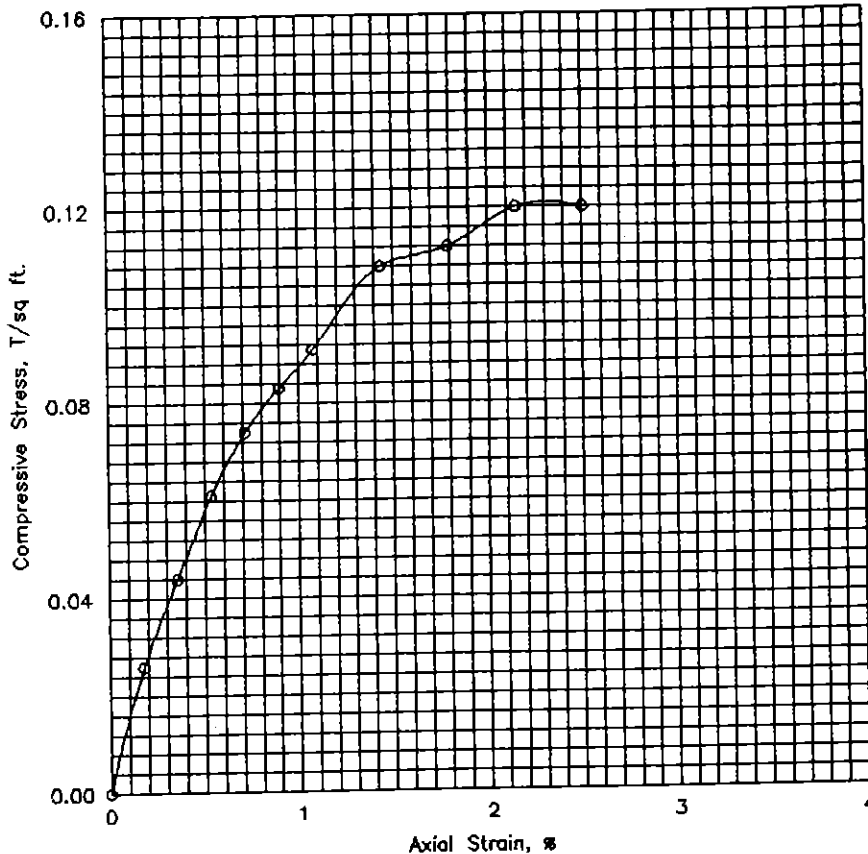
Tare No.	P-219	Height	5.595 in.
Tare plus Wet Specimen	414.83 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	317.22 gm	Initial Area	6.290 sq in.
Water Weight	97.61 gm	Volume	35.194 cu in.
Tare Weight	42.63 gm	Volume of Solids	cu in.
Wet Specimen	1088.46 gm	Void Ratio	
Dry Specimen	803.01 gm	Saturation	%
Water Content	35.55 %	Dry Density	86.9 lb/cu ft
Specific Gravity of Solids			
LL = 35	PL = 18	PI = 17	

Proving Ring No. 10170

Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.2	10.	.010	3.0	2.3	.002	6.30	.026
.3	20.	.020	5.0	3.8	.004	6.31	.044
.5	30.	.030	7.0	5.4	.005	6.32	.061
.7	40.	.040	8.5	6.5	.007	6.34	.074
.9	50.	.050	9.5	7.3	.009	6.35	.083
1.0	60.	.060	10.5	8.0	.011	6.36	.091
1.3	80.	.080	12.5	9.6	.014	6.38	.108
1.6	100.	.100	13.0	10.0	.018	6.40	.112
1.9	120.	.120	14.0	10.7	.021	6.43	.120
2.2	140.	.140	14.0	10.7	.025	6.45	.120

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	35.5 %		
	Void ratio	e_0			
	Saturation	S_0	%		
	Dry density, lb/cu ft	γ_d	86.9		
Time to failure, min		t_f	1.88		
Unconfined compressive strength, T/sq ft		q_u	.12		
Undrained shear strength, T/sq ft		S_u	.06		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.830		
Initial specimen height, in.		H_0	5.595		
Classification Gray, Clay, Very soft, Sandy, w/sand pockets					
LL	35	PL	18	PI	17
Remarks		Project Disposal Areas Nos. 2 and 4 for Brownsville			
		Area Ship Channel, Brownsville, Texas			
		Boring No. 92-29		Sample No. 5	
		Depth 8-10 ft		Date 4/9/92	
		UNCONFINED COMPRESSION TEST REPORT			