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STUDY OF SOIL BEHAVIOR UNDER HIGH
PRESSURE. REPORT 1. VOLUME 2. RESPONSE
OF TWO RECOMPACTED SOILS TO VARIOUS
STATES OF STRESS

Billy B. Mazanti, et al

Georgia Institute of Technology

Prepared for:

Defense Atomic Support Agency
Army Engineer Waterways Experiment Station

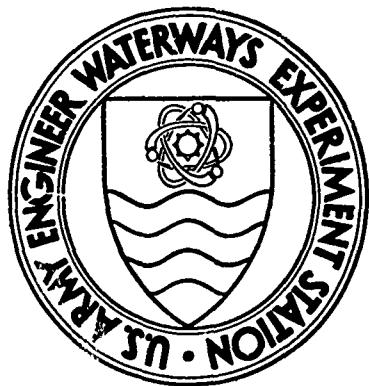
February 1970

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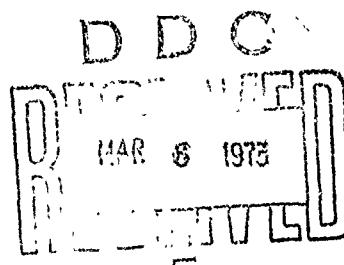
STUDY OF SOIL BEHAVIOR UNDER HIGH PRESSURE

Report I, Volume II

RESPONSE OF TWO RECOMPACTED SOILS TO VARIOUS STATES OF STRESS

by

B. B. Mazanti, C. N. Holland



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February 1970

Sponsored by **Defense Atomic Support Agency**

Conducted for **U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi**

Under Contract No. **DACA 39-67-C-0051**

By **Georgia Institute of Technology, Atlanta, Georgia**

ARMY-MRC VICKSBURG, MISS

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348

FOREWORD

This report presents the results of a research project conducted by the Georgia Institute of Technology, Atlanta, Georgia, under the direction of Dr. B. B. Mazanti, Associate Professor of Civil Engineering. Mr. C. N. Holland served as Associate Director of the project.

There are three separate volumes documenting this project. Volume I describes the development of equipment and test procedures, soil analysis and specimen preparation, and analysis of results. Volume II contains the basic results of all tests conducted for this program in the form of stress-strain plots. Volume III contains the numerical tabulation of test data in the form of computer sheet printout. Only a limited number of copies of the Volumes II and III were published; however, interested readers may borrow a copy on 30-day loan from the Research Center Library, Waterways Experiment Station.

The Georgia Institute of Technology has been engaged in research concerned with the effects of high pressure on soil and rock for approximately ten years. During this time period, a considerable amount of equipment and instrumentation has been developed for high pressure testing, financed almost entirely by Georgia Tech. Much of the equipment and instrumentation utilized in the performance of this research was of such origin.

This report was requested and authorized by Mr. J. G. Jackson, Jr., Impulse Loads Section, Soil Dynamics Branch, under the direction of Messrs. W. J. Turnbull and A. A. Maxwell, Chief and Assistant Chief, respectively, Waterways Experiment Station Soils Division. The work was part of Contract No. DACA 39-67-C-0051, Project B-602, and was conducted for the U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, under Defense Atomic Support Agency sponsorship, during the period November 1967 through November 1968.

Directors of the Waterways Experiment Station during the performance of this work and preparation and publication of this report were COL John R. Oswalt, Jr., CE, and COL Levi A. Brown, CE. Technical Directors were Messrs. J. B. Tiffany and F. R. Brown.

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CONTENTS

	<u>Page</u>
FOREWORD	v
LIST OF SYMBOLS	vii
SECTION I: McCORMICK RANCH SAND STRESS-STRAIN PLOTS	1
Group A: Triaxial Tests	3
Group B: Triaxial Tests, Cyclic at 35%	51
Group C: Triaxial Tests, Cyclic at 75%	91
Group D: Constant Ratio Tests :	133
SECTION II: WATCHING HILL CLAY STRESS-STRAIN PLOTS,	169
Group A: Triaxial Tests	171
Group B: Triaxial Tests, Cyclic	213
Group C: Constant Ratio Tests	243
Group D: No-Lateral-Strain Tests	335

LIST OF SYMBOLS

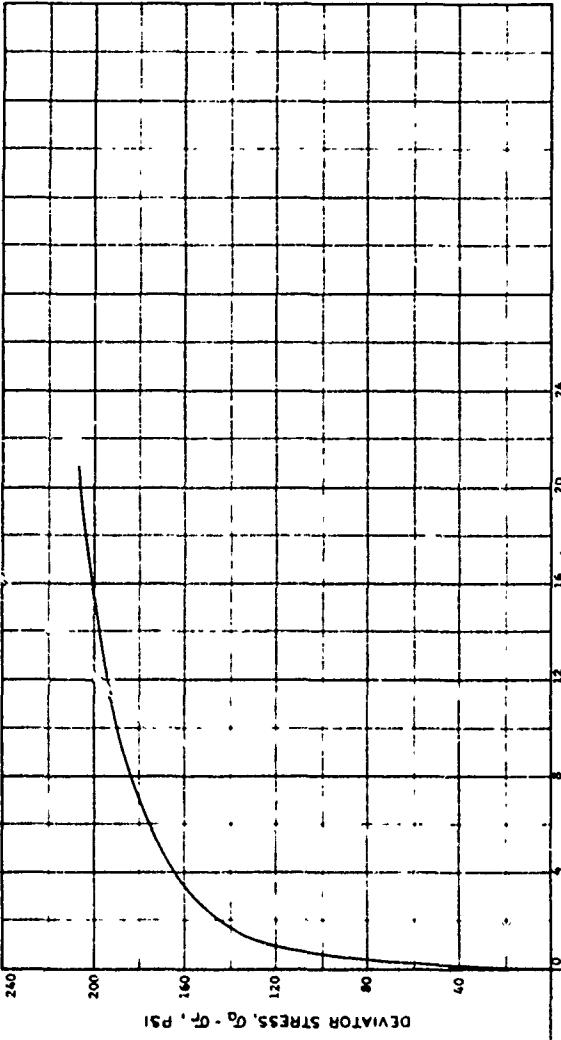
p	Hydrostatic Pressure
c	Normal Stress
σ_1	Major Principal Stress
σ_2	Intermediate Principal Stress
σ_3	Minor Principal Stress
σ_a	Axial Stress
σ_r	Radial Stress
τ	Shear Stress
ϵ	Strain
ϵ_a	Axial Strain
ϵ_r	Radial Strain
ΔV	Volume Change
V_o	Original Volume
$\Delta V/V_o$	Volumetric Strain
K^o	Condition of No-Lateral-Strain

SECTION I
McCORMICK RANCH SAND STRESS-STRAIN PLOTS

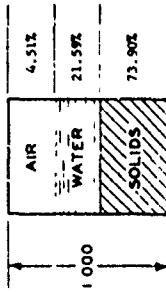
Group A

Triaxial Tests

WATER CONTENT	W	10.94	%
VOID RATIO	e _o	0.35	
SATURATION	s _o	82.72	%
DRY DENSITY	γ_d	123.13	pcf
WET DENSITY	γ	136.60	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.50	cm
SPECIMEN HEIGHT	H _o	7.54	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

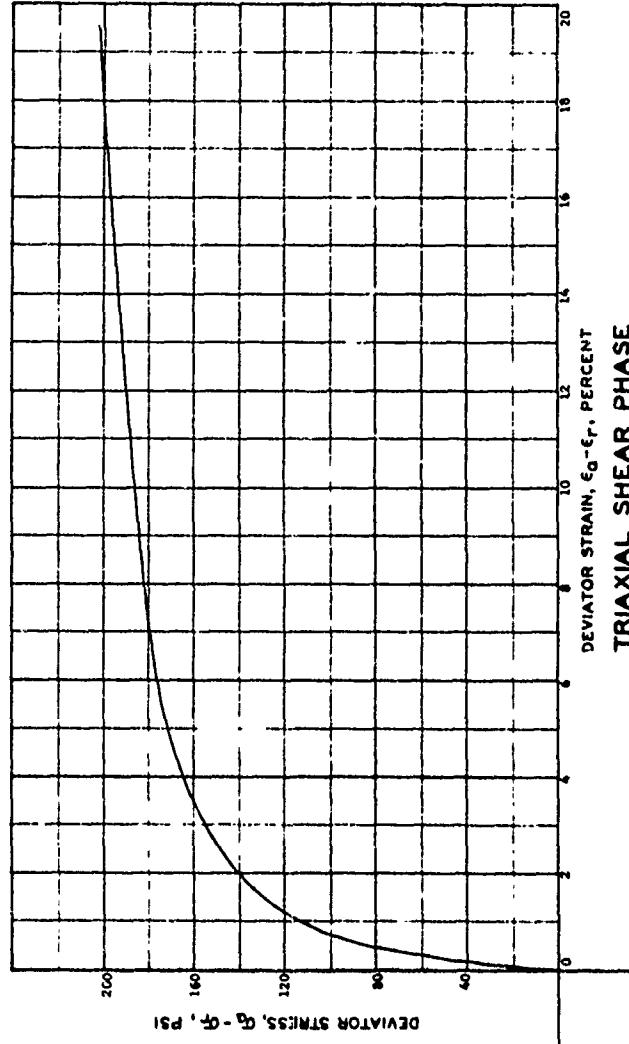
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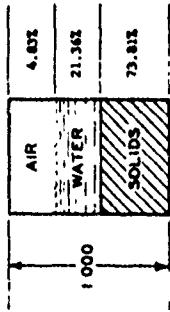
PROJECT	Ga Tech B-602;
Contract No.	DACAA9-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 68
DEPTH	DATE
EL.	
LL	PL 15 PI 12
DESCRIPTION H-Comatich Bench, Sand	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.84	%
VOID RATIO	e ₀	0.35	
SATURATION	S _s	81.56	%
DRY DENSITY	γ_d	122.97	pcf
WET DENSITY	γ	136.30	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.52	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

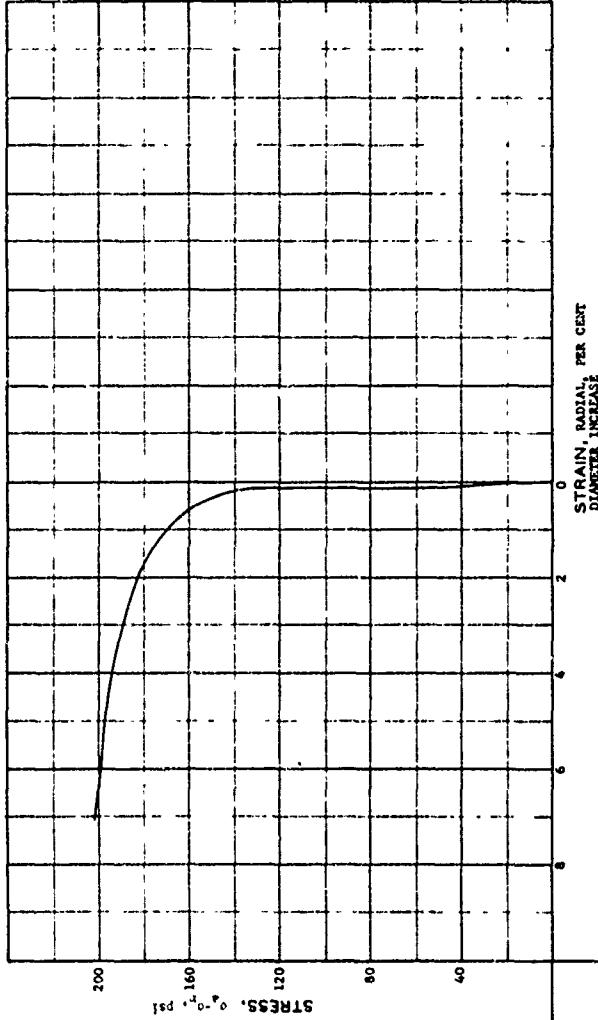
6

TRIAXIAL SHEAR PHASE

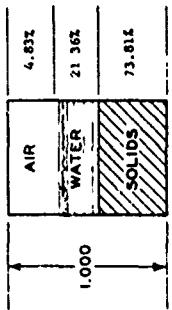
PROJECT	94-20th & 3rd St.		
Contract No.	DACA19-67-C-0051		
AREA			
BORING NO.	SAMPLE NO.	91	
DEPTH	DATE		
EL.			
LL	PL	15	P1
			12
DESCRIPTION McCormick Ranch Sand			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.84 %
VOID RATIO	e _o	0.35
SATURATION	S _o	61.56 %
DRY DENSITY	γ_d	122.97pcf
WET DENSITY	γ'	136.30pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D _o	3.50 cm
SPECIMEN HEIGHT	H _o	7.52 cm



HYDROSTATIC COMPRESSION PHASE

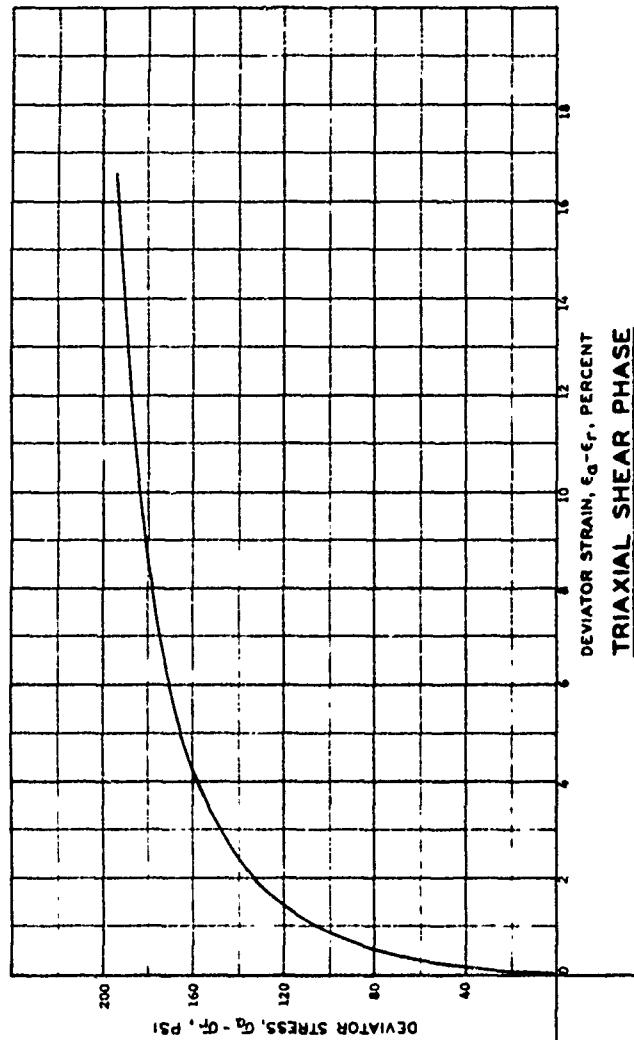


HYDROSTATIC PRESSURE, P, PSI

7

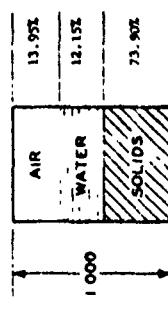
PROJECT	Ca. Tech B-602;
Contract No. DA-CA 39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 91
DEPTH	DATE
EL.	P.L. 15 P1 12
LL.	
DESCRIPTION McCrack Ranch Sand	

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT



DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE

HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

0

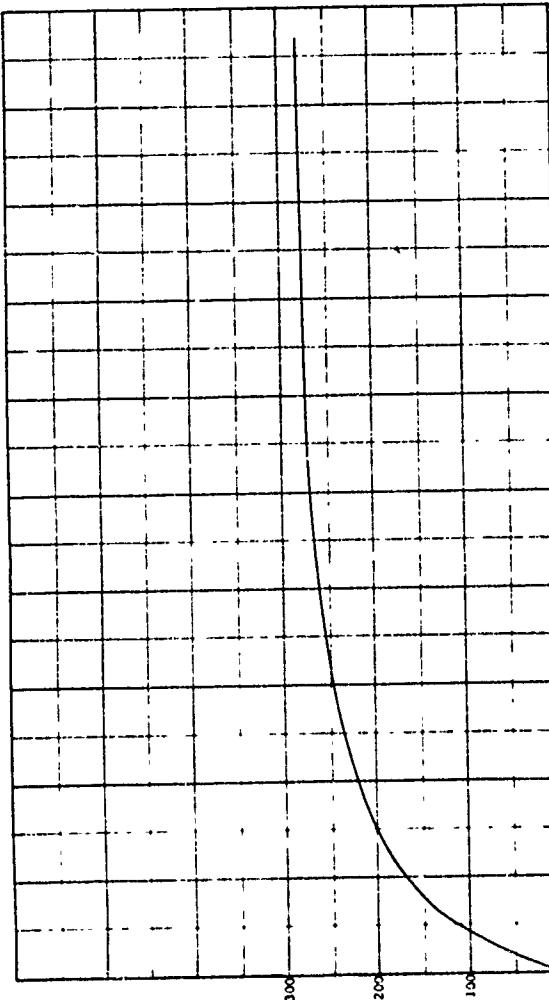
WATER CONTENT	W	6.16	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	46.35	%
DRY DENSITY	γ_d	123.13	pcf
WET DENSITY	γ	130.7113	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_c	3.51	cm
SPECIMEN HEIGHT	H_o	7.53	cm

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

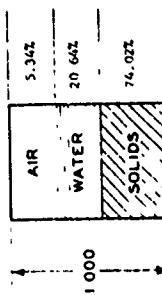
PROJECT	Geotech B-001
Contract No.	DACAS9-67-C-0051
AREA	
BORING NO.	
DEPTH EL	
LL	27
PL	15
P1	12
DESCRIPTION	McComick Ranch Sand

WATER CONTENT	W	10.44	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	79.44	%
DRY DENSITY	γ_d	123.33	pcf
WET DENSITY	γ	136.21	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	cm
SPECIMEN HEIGHT	H_o	7.53	cm

DEVIATOR STRESS, G_d - G_f , PSI



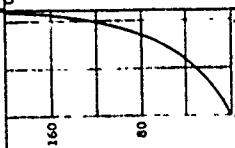
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

9

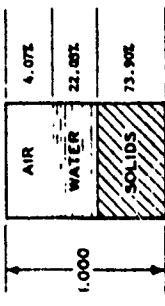
TRIAXIAL SHEAR PHASE



VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Ga Tech B-602
AREA	Contract No. DAAG33-67-C-0051
BORING NO	SAMPLE NO. 75
DEPTH	DATE
EL.	PL 15 PI 12
LL	DESCRIPTION McCormick Ranch Sand

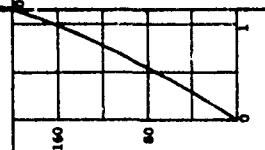
WATER CONTENT	W	11.16	%
VOID RATIO	e_0	0.3532	
SATURATION	S_o	84.41	%
DRY DENSITY	γ_d	123.12	pcf
WET DENSITY	γ	136.87	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.55	cm



HYDROSTATIC COMPRESSION PHASE

10

HYDROSTATIC PRESSURE, P, PSI



TRIAXIAL SHEAR PHASE

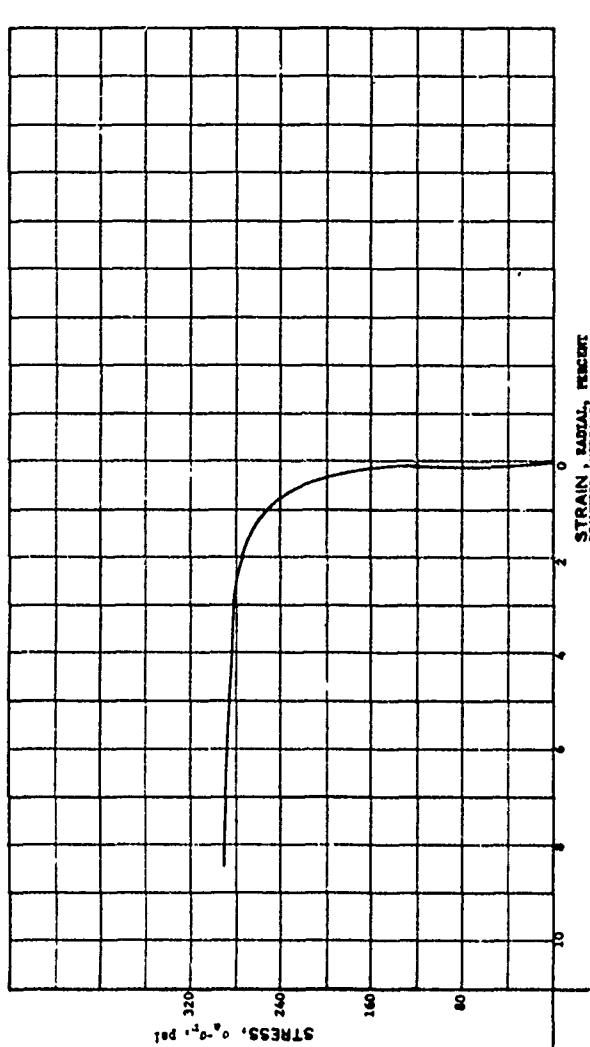
20
16
12

DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT

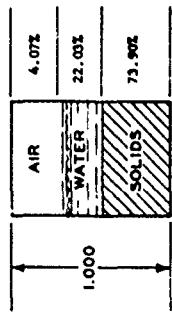
PROJECT	Ge Tech 3-602;
Contract No.	DACAS9-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 77
DEPTH	DATE
ft.	
LL	PL IS PI L2
DESCRIPTION McCormick Ranch Sand	

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.16 %
VOID RATIO	e ₀	0.3532
SATURATION	S ₀	84.41 %
DRY DENSITY	γ _d	123.12 PCF
WET DENSITY	γ	136.87 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	1.50 CM
SPECIMEN HEIGHT	H ₀	7.55 CM



HYDROSTATIC COMPRESSION PHASE



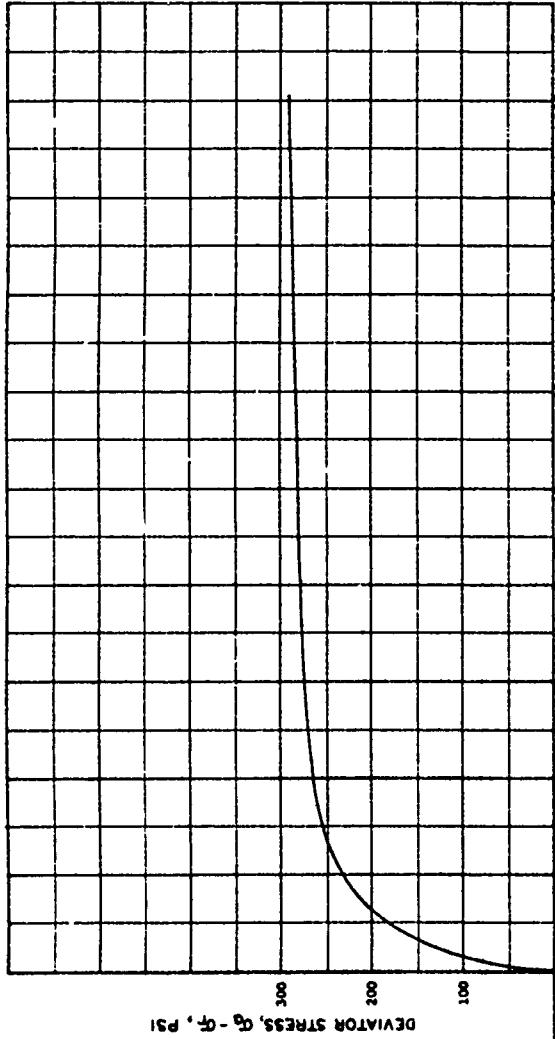
HYDROSTATIC PRESSURE, P, PSI

11

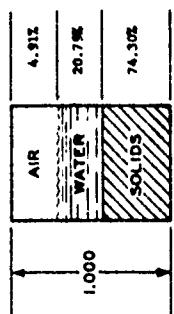
PROJECT	Ge Tech 8-602;			
Contract No. DAMA39-67-C-0051				
AREA				
BORING NO.	SAMPLE NO. 77			
DEPTH	DATE			
EL				
LL	PL	15	P1:	12
DESCRIPTION <u>McGonick Ranch Sand</u>				

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.48	%
VOID RATIO	e_0	0.35	
SATURATION	S_0	80.91	%
DRY DENSITY	γ_d	123.50	pcf
WET DENSITY	γ	136.77	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.52	cm
SPECIMEN HEIGHT	H_o	7.52	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P_h , psi

12

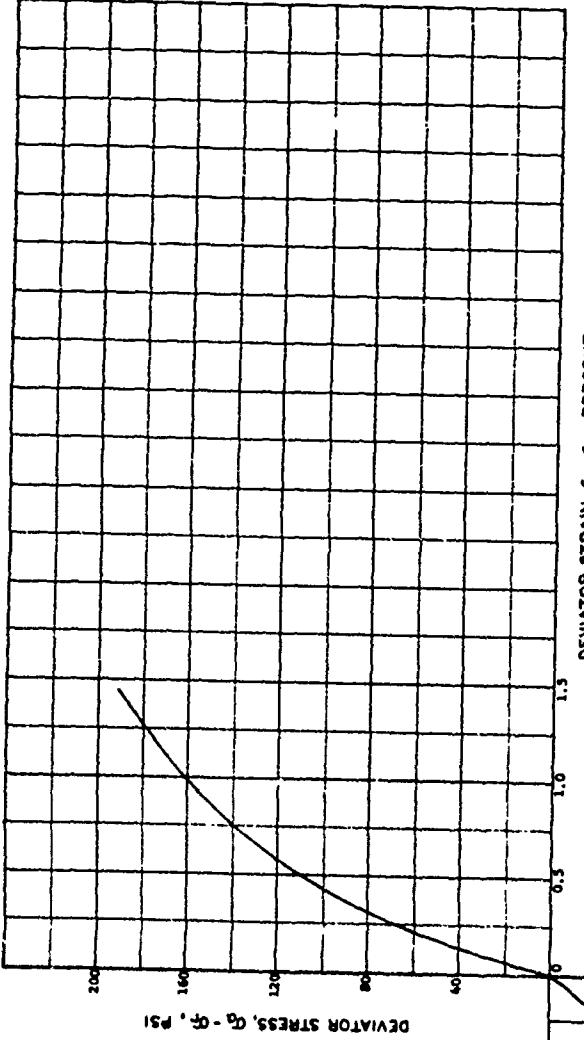


PROJECT	Ge-Tech 3-602;
Contract No.	DCI-39-07-0-0051
AREA	
BORING NO.	SAMPLE NO.
DEPTH	DATE
EL	
LL	PL 15
	P1 12
DESCRIPTION	Mecomet Beach Sand

VOLUMETRIC STRAIN, $\Delta V/V_0$ - PERCENT

WATER CONTENT	W	8.26	%
VOID RATIO	e ₀	0.31	
SATURATION	S ₀	69.88	%
DRY DENSITY	γ_d	126.72	pcf
WET DENSITY	γ	137.17	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.53	cm

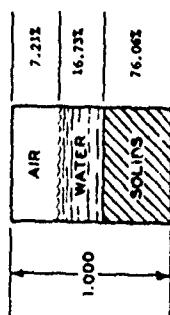
DEVIATOR STRESS, $\sigma_d - \sigma_r$, PSI



TRIAXIAL SHEAR PHASE



HYDROSTATIC COMPRESSION PHASE



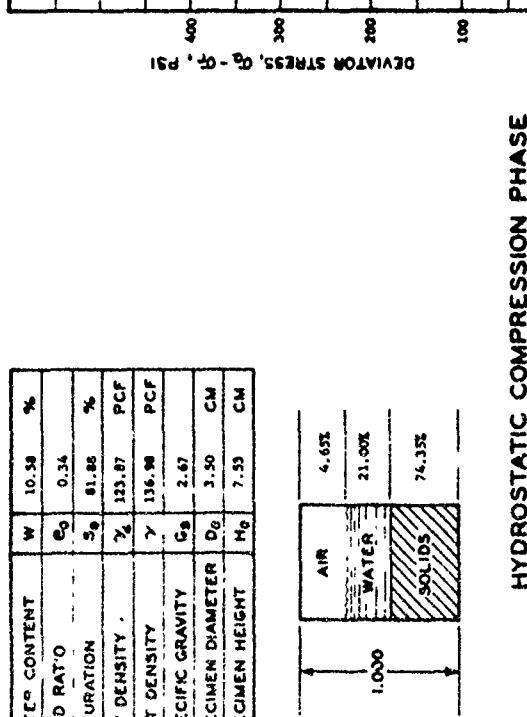
HYDROSTATIC PRESSURE, P, PSI

13

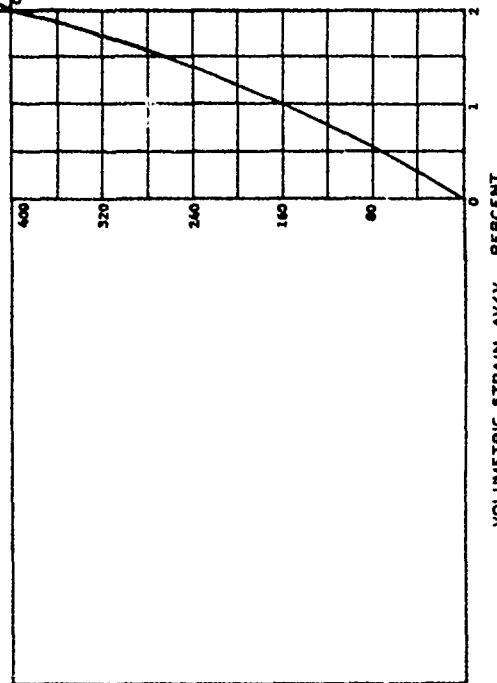
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Contract No.	DACAS9-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 66
DEPTH	DATE
EL.	
LL	P.L. 15 P1 12
DESCRIPTION Heceta Beach Sand	

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.5%
VOID RATIO	e ₀	0.34
SATURATION	S _w	61.8%
DRY DENSITY	γ_d	123.87 PCF
WET DENSITY	γ_w	136.98 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _g	3.50 CM
SPECIMEN HEIGHT	H _g	7.55 CM

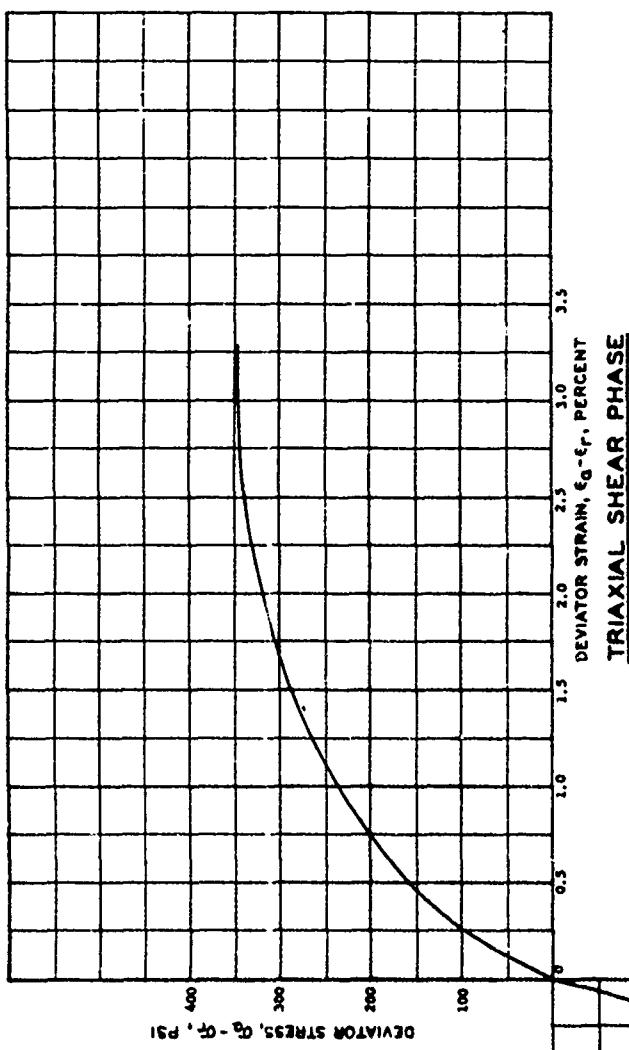


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

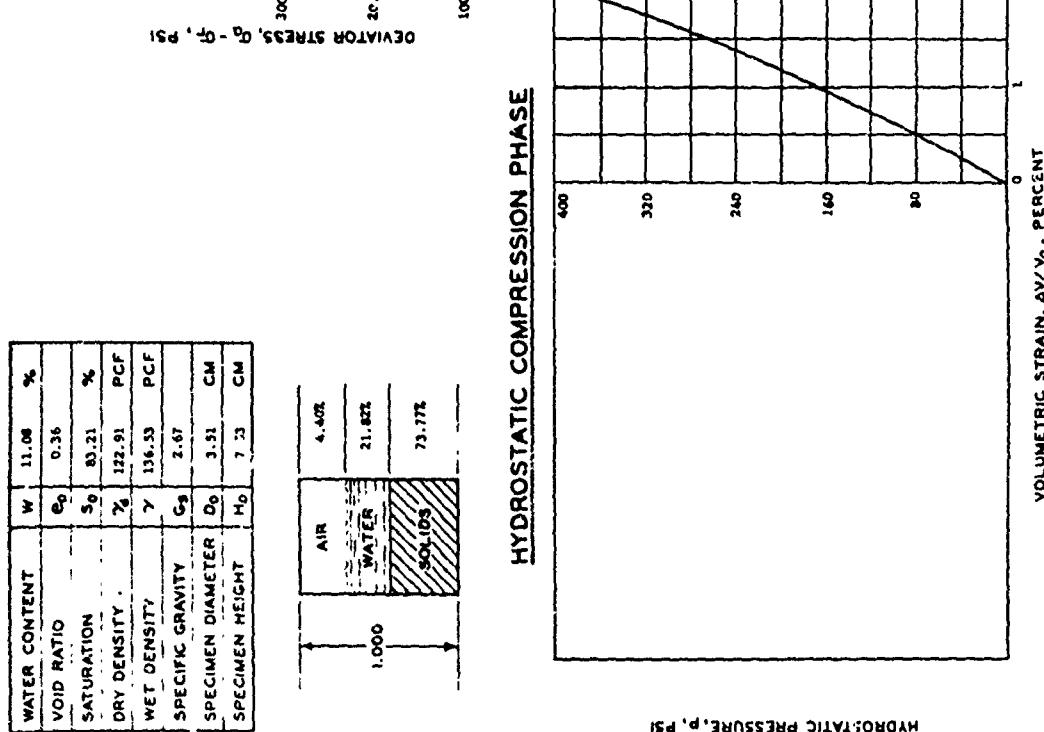
14



TRIAXIAL SHEAR PHASE

PROJECT	Ge Tech 8-402;
Contract No. DMAAS9-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 85
DEPTH EL.	DATE
L.L. 27	PL. 15
	P1 12
DESCRIPTION McClellan Beach Sand	

WATER CONTENT	W	11.08	%
VOID RATIO	e ₀	0.36	
SATURATION	S _o	83.21	%
DRY DENSITY	γ_d	122.91	pcf
WET DENSITY	γ	136.53	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.51	cm
SPECIMEN HEIGHT	H ₀	7.23	cm

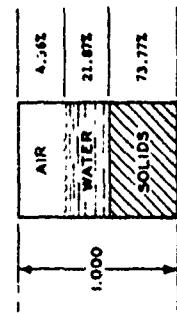
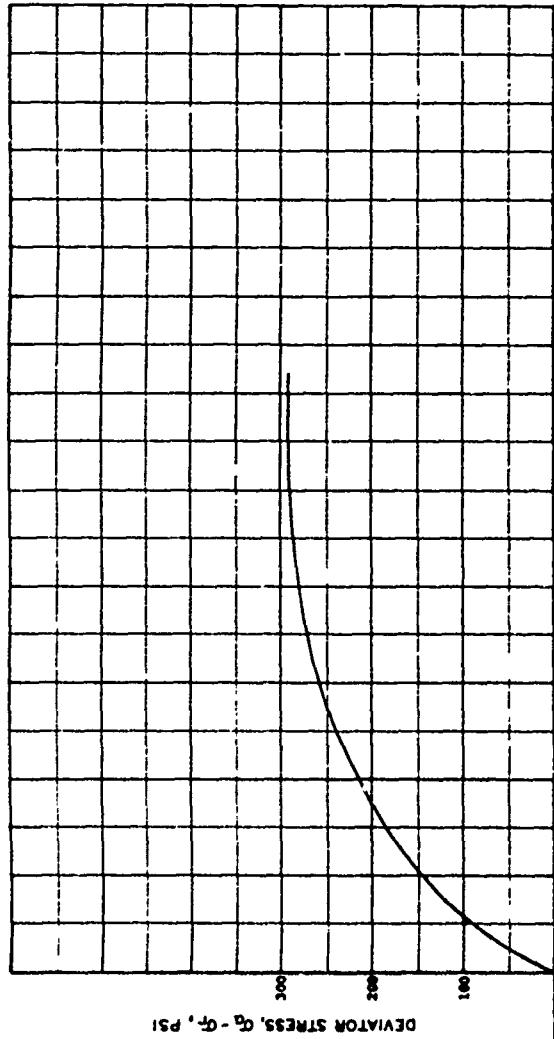


HYDROSTATIC PRESSURE, p , psi

15

PROJECT	Ca Tech 3-602:
CONTRACT NO.	DIAC19-67-0-0051
AREA	
BORING NO.	
DEPTH	
EL	
LL	
PL	
P1	
L2	
SAMPLE NO.	47
DATE	
DESCRIPTION	McCormick Ranch Sand

WATER CONTENT	W	11.10	%
VOID RATIO	e ₀	0.36	
SATURATION	S _o	83.38	%
DRY DENSITY	γ_d	122.91	pcf
WET DENSITY	γ	136.55	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.51	cm
SPECIMEN HEIGHT	H _o	7.53	cm

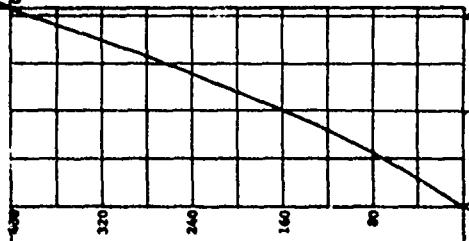


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

16

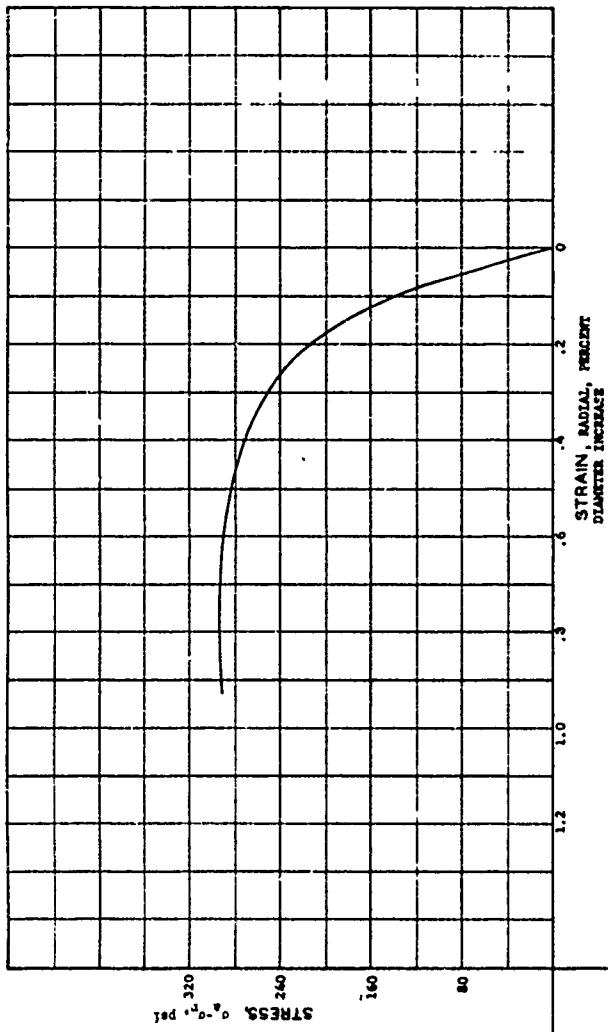
DEVIATOR STRAIN, $\epsilon_d - \epsilon_f$, PERCENT
TRIAXIAL SHEAR PHASE



PROJECT Da Tech 3-602
Contract No. DAAG19-67-C-0031

AREA	BORING NO.	SAMPLE NO. <u>59</u>	DEPTH EL.	DATE		
				LL	PL	IS

DESCRIPTION Inorganic, loamy sand



WATER CONTENT	W	11.10	%
VOID RATIO	e_0	0.36	
SATURATION	s_0	53.38	%
DRY DENSITY	γ_d'	122.91	PCF
WET DENSITY	γ'	136.55	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	CM
SPECIMEN HEIGHT	H_0	7.53	CM

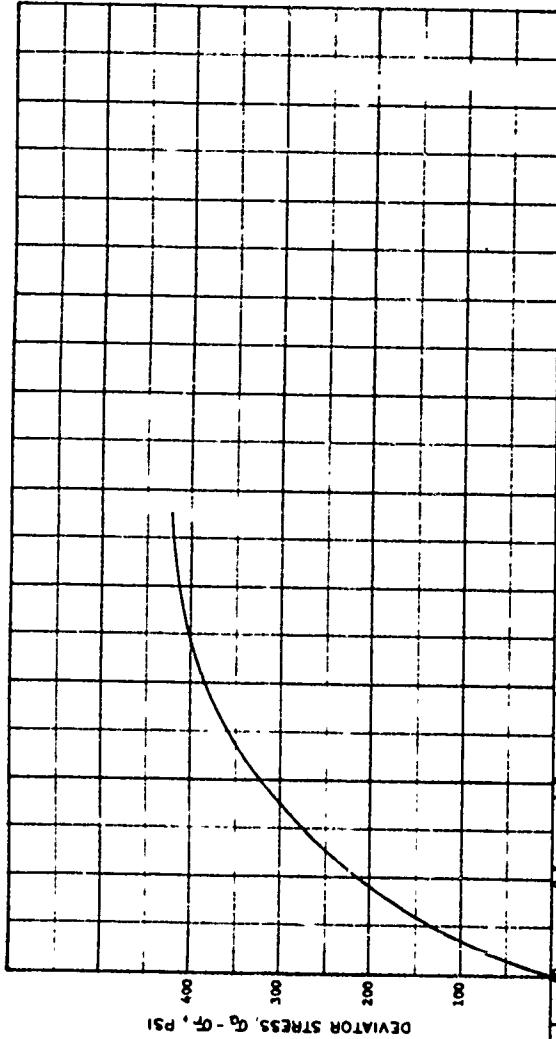
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

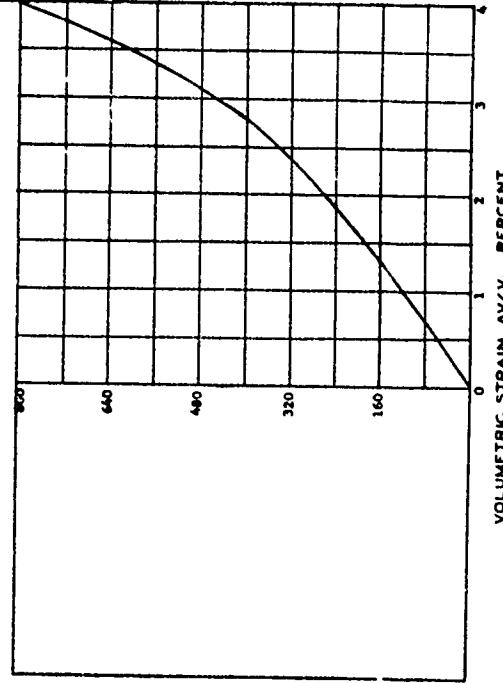
PROJECT	Ge Tech B-6023;		
	Contract No. DAMC93-67-C-0031.		
AREA	BORING NO.	SAMPLE NO.	DATE
		69	
DEPTH			
EL			
LL	27	PL	15
		PL	12
DESCRIPTION	McConick Ranch Sand		

VOLUMETRIC STRAIN, ϵ_V/V_0 , PERCENT

WATER CONTENT	W	10.30	%
VOID RATIO	e ₀	0.41	
SATURATION	s ₀	66.70	%
DRY DENSITY	γ_d	117.98	pcf
WET DENSITY	γ	130.13	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.52	cm
SPECIMEN HEIGHT	H ₀	7.80	cm

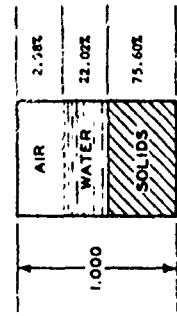


HYDROSTATIC COMPRESSION PHASE

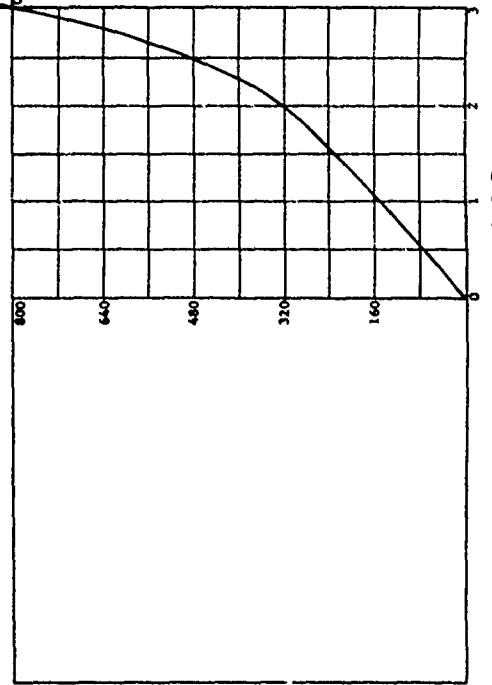


PROJECT	C- Tech B-692,
Contract No.	DAC39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 15
DEPTH EL	DATE
L.L. 27	PL 15
	P1 12
DESCRIPTION McCordick Ranch Sand	

WATER CONTENT	W	10.91	%
VOID RATIO	e ₀	0.32	
SATURATION	S ₀	90.75	%
DRY DENSITY	γ_d	125.95	pcf
WET DENSITY	γ	131.69	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.46	cm
SPECIMEN HEIGHT	H ₀	7.55	cm

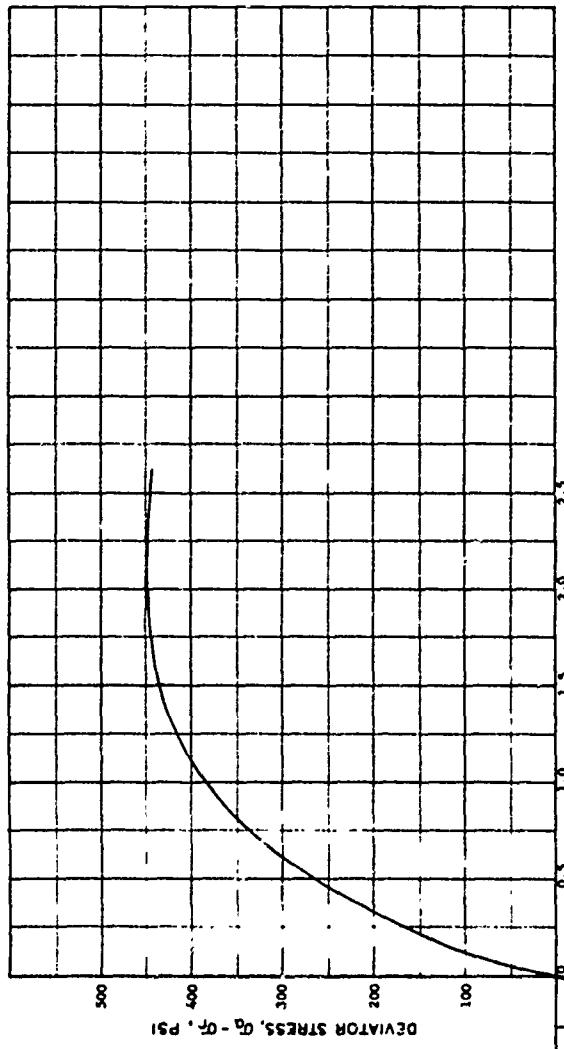


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

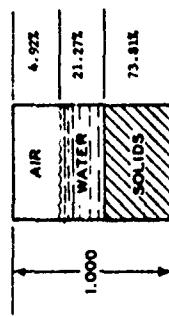
19



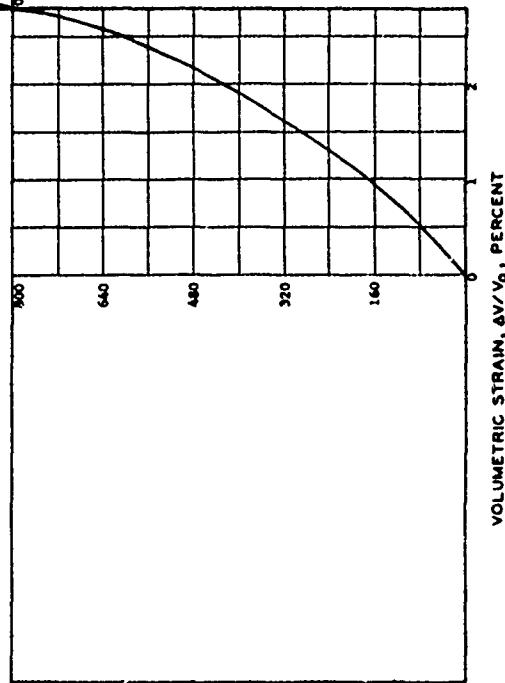
TRIAXIAL SHEAR PHASE

PROJECT	Co. Tech. B-602;
Contract No. DMA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 49
DEPTH EL.	DATE
LL	PL 15 P1 12
DESCRIPTION McCamish Ranch Sand	

WATER CONTENT	W	10.79	%
VOID RATIO	e ₀	0.35	
SATURATION	S _o	81.22	%
DRY DENSITY	γ_d	112.97	pcf
WET DENSITY	γ'	136.24	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
ORIGINAL HEIGHT	H ₀	7.56	cm

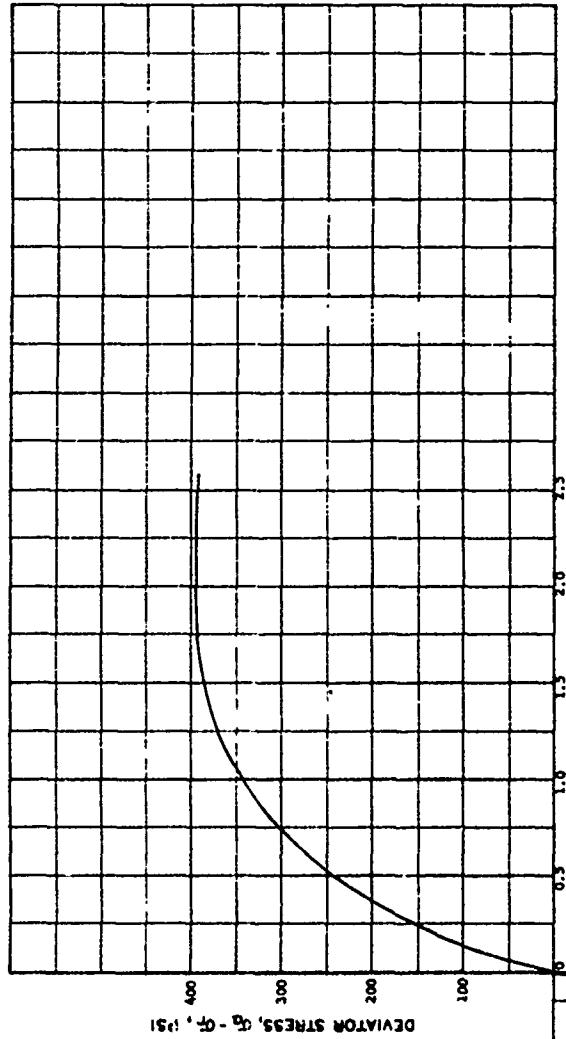


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

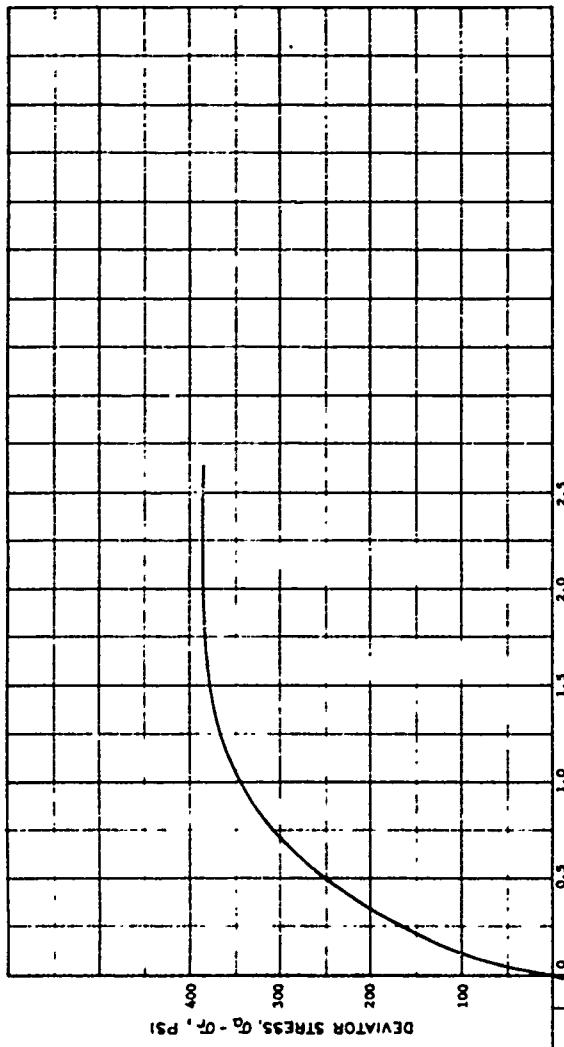
20



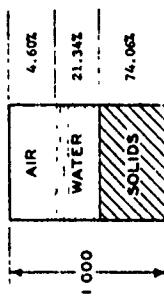
TRIAXIAL SHEAR PHASE

PROJECT	Ge Tech B-602:
Contract No. DA-39-67-4-0051	
AREA	
BORING NO.	SAMPLE NO. 70
DEPTH EL.	DATE
L.L. 27	PL. 15 P1 12
DESCRIPTION McCordick Ranch Sand	

WATER CONTENT	W	10.79 %
VOID RATIO	e_0	0.35
SATURATION	S_0	42.28 %
DRY DENSITY	γ_d	123.39 PCF
WET DENSITY	γ	136.71 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.54 CM



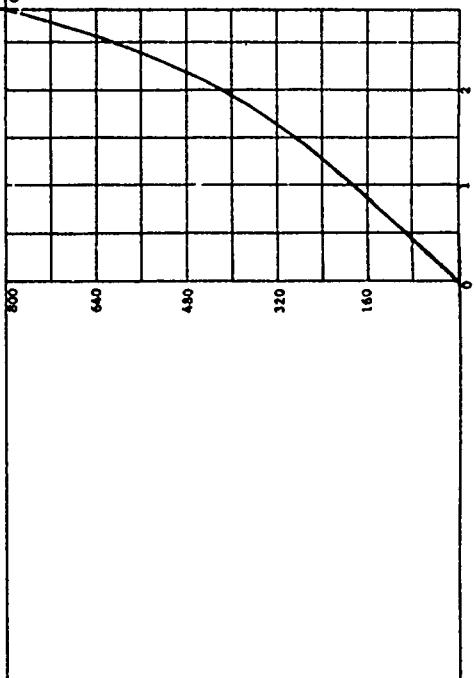
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , PSI

21

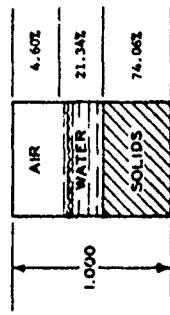
TRIAXIAL SHEAR PHASE



VOLUMETRIC STRAIN, $\Delta \gamma / \gamma_0$, PERCENT

PROJECT	Geotech B-602
	Contract No. DUCAS9-67-C-0051
AREA	SAMPLE NO. 71
BORING NO.	DATE
DEPTH	
EL.	
LL	PL 15 P1 12
DESCRIPTION Mecanitck Ranch Sand	

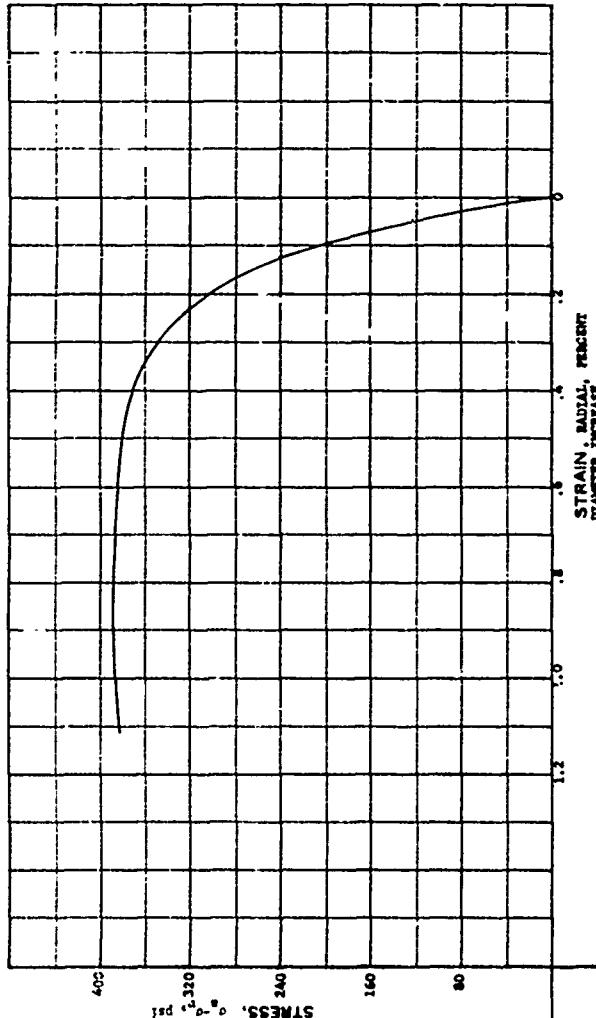
WATER CONTENT	W	10.19	%
VOID RATIO	e_0	0.35	
SATURATION	S_0	82.28	%
DRY DENSITY	γ_d	123.39	PCF
WET DENSITY	γ	136.71	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	CM
SPECIMEN HEIGHT	H_0	7.54	CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P , PSI

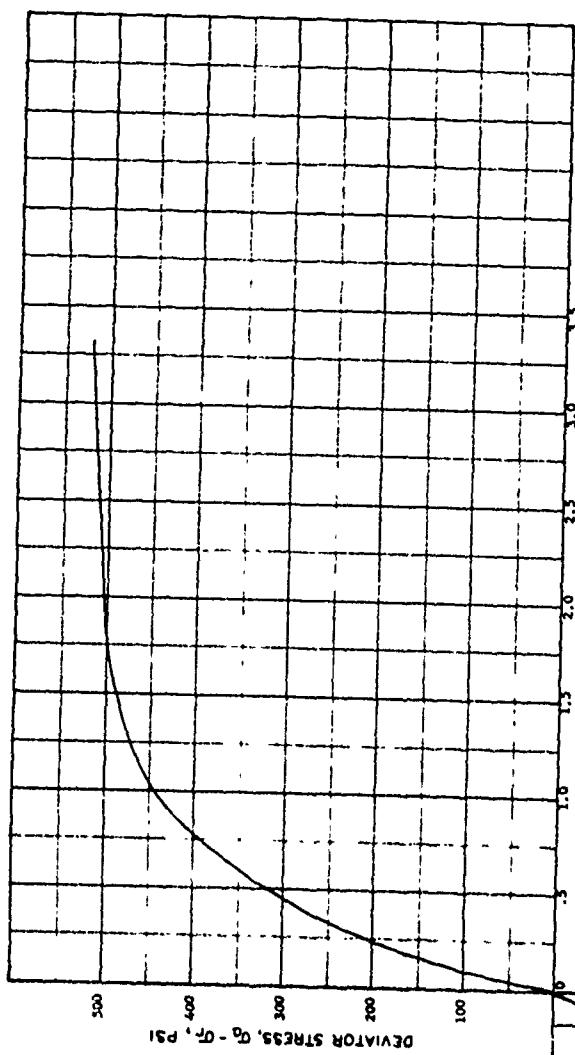
22



PROJECT	Ge Tech 8-602;	
	Contract No. DMRCA39-67-C-0031	
AREA		
BORING NO.	SAMPLE NO. 71	
DEPTH	DATE	
EL.		
LL	PL	P_1
	15	12
DESCRIPTION McCormick Ranch Sand		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

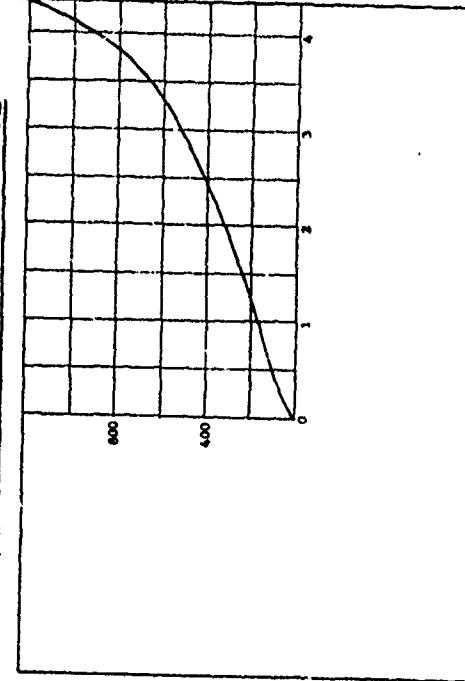
WATER CONTENT	W	10.44	%
VOID RATIO	e ₀	0.39	
SATURATION	S _o	70.78	%
DRY DENSITY	γ _d	119.53	pcf
WET DENSITY	γ _w	132.01	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.50	cm
SPECIMEN HEIGHT	H _o	7.79	cm



TRIAXIAL SHEAR PHASE

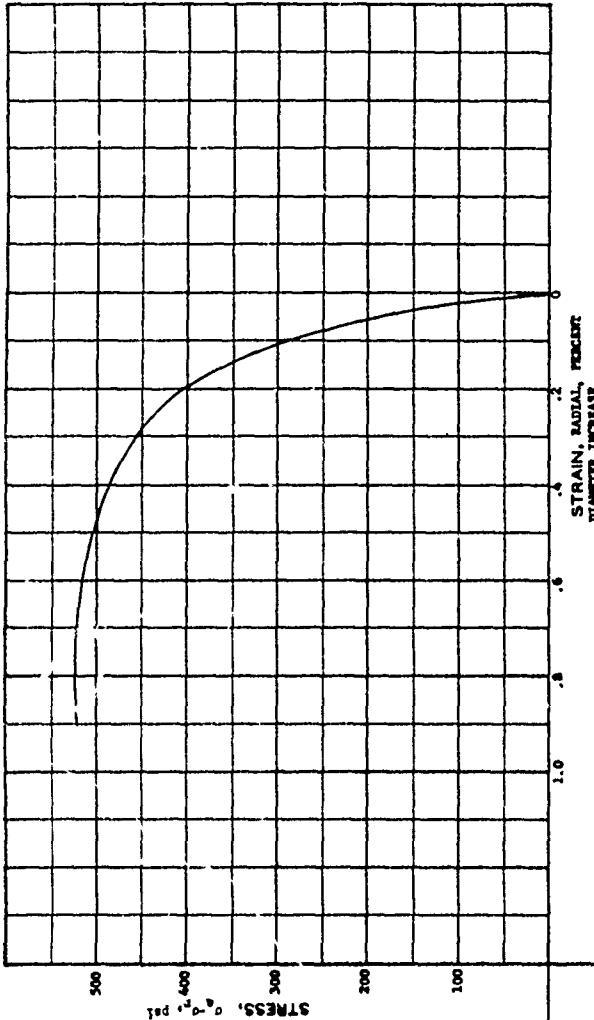
PROJECT	Ga. Tech B-602;
Contract No.	DAAG39-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 16
DEPTH	DATE
EL.	
LL	PL 15 P1 12
DESCRIPTION McCormick Ranch Sand	

HYDROSTATIC COMPRESSION PHASE

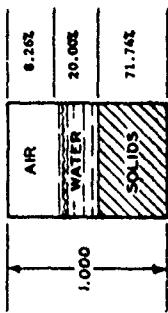


VOLUME STRAIN, $\Delta V/V_0$, PERCENT

HYDROSTATIC PRESSURE, P, PSI



WATER CONTENT	W	10.44	%
VOID RATIO	e _o	0.39	
SATURATION	S _o	70.78	%
DRY DENSITY	γ_d	119.53	FCF
WET DENSITY	γ_w	132.01	PCF
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.50	CM
SPECIMEN HEIGHT	H _o	7.79	CM



HYDROSTATIC COMPRESSION PHASE

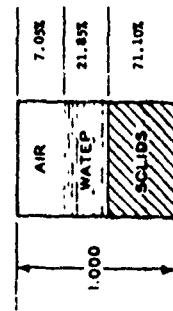
HYDROSTATIC PRESSURE, P, PSI

24

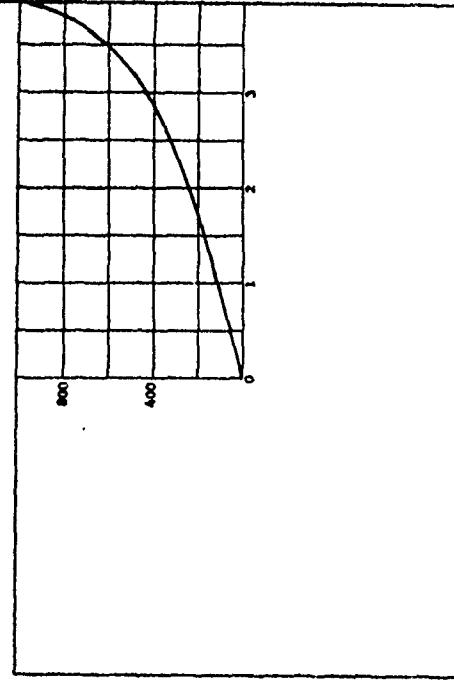
PROJECT	Ge Tech S-602;
Contract No. DACAS9-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 16
DEPTH	DATE
EL.	
L.L.	PL
27	15
	P1
	12
DESCRIPTION McCordick Ranch Sand	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.51 %
VOID RATIO	e ₀	0.41
SATURATION	s ₀	75.60 %
DRY DENSITY	γ_d	118.46 PCF
WET DENSITY	γ_w	.32.09 PCF
SPECIFIC GRAVITY	G ₀	2.67
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.83 CM

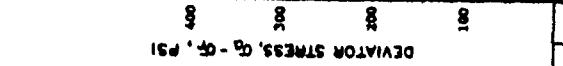


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

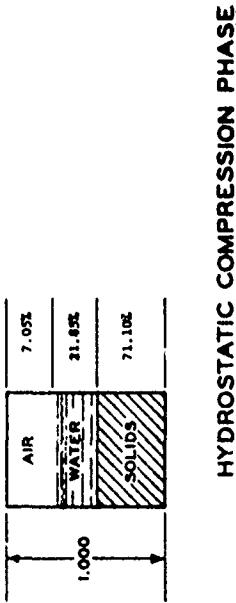
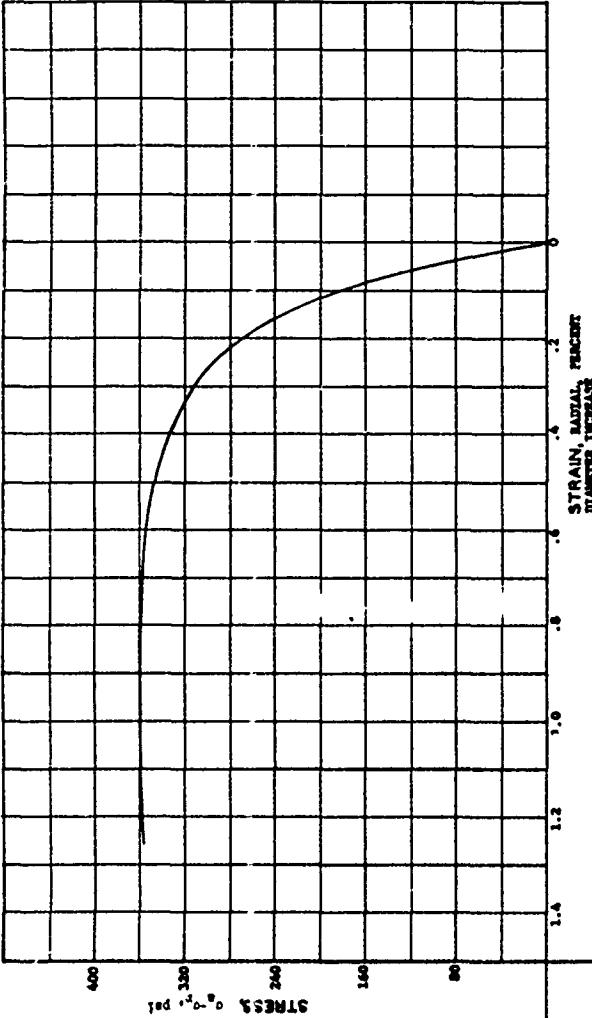
25



DEVIATOR STRESS, $Q_0 - Q_1$, PSI
DEVIATOR STRAIN, $\epsilon_0 - \epsilon_1$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Geotech S-69:
AREA	Contract No. DECA 9-67-C-0051
BORING NO.	SAMPLE NO. 27
DEPTH	DATE
EL.	L.L. PL L3 P1 12
DESCRIPTION McCordet Branch Sand	

WATER CONTENT	W	11.51	%
VOID RATIO	e_0	0.41	
SATURATION	S_0	75.60	%
DRY DENSITY	γ_d	118.46	pcf
WET DENSITY	γ	132.09	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.49	cm
SPECIMEN HEIGHT	H_0	7.83	cm

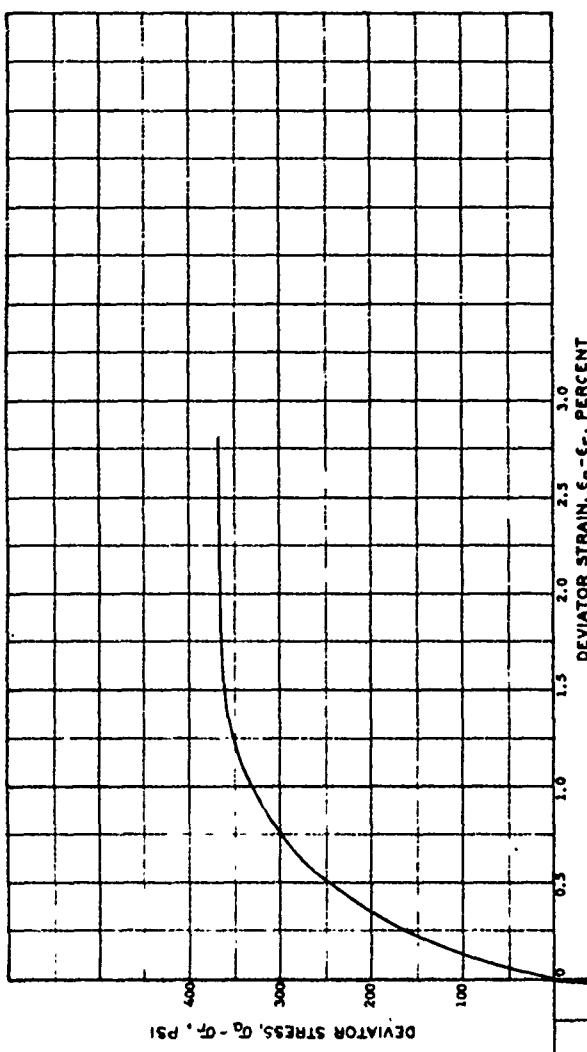


HYDROSTATIC PRESSURE, P, PSI

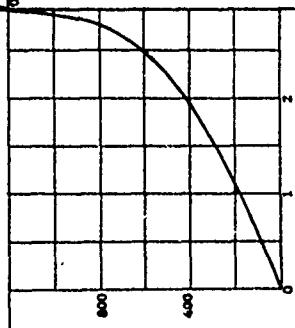
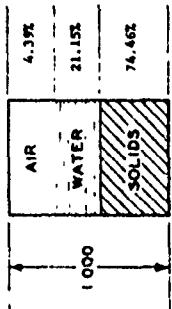
PROJECT	Ge Tech B-602;
Contract No. DACA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 27
VE/FH	DATE
EL	
LL	PL 15
	P1 12
DESCRIPTION MacCannell Ranch Sand	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.44 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	82.81 %
DRY DENSITY	γ_d	124.05pcf
WET DENSITY	γ	137.25pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.55 cm

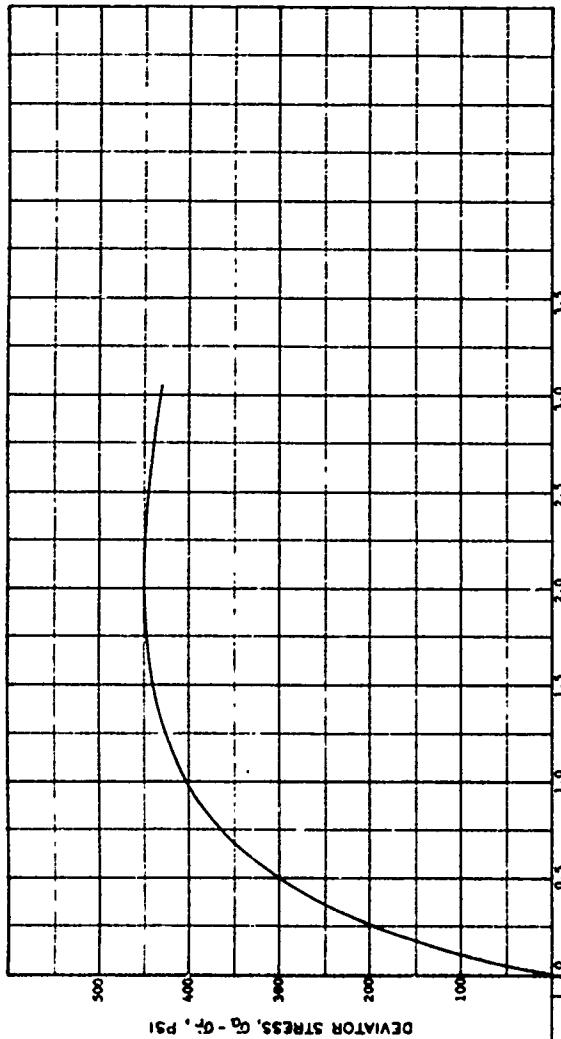


HYDROSTATIC COMPRESSION PHASE

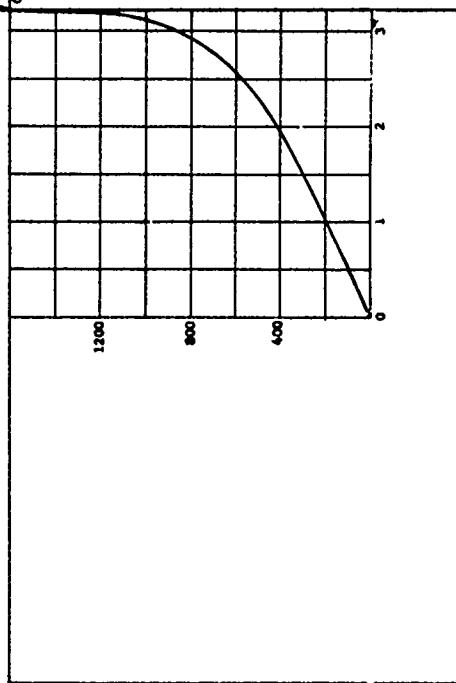


PROJECT	Ge Tech B-602;
Contractor No.	DAC139-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 34
DEPTH	DATE
EL.	
LL.	PL 15 P1 12
DESCRIPTION McDonald Ranch Sand	

WATER CONTENT	W	10.36 %
VOID RATIO	e_0	0.3645
SATURATION	s_0	80.14 %
DRY DENSITY	γ_d	123.92 PCF
WET DENSITY	γ	136.73 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.50 CM
SPECIMEN HEIGHT	H_0	7.53 CM



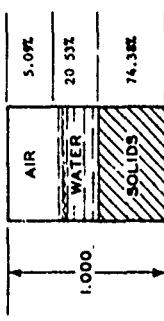
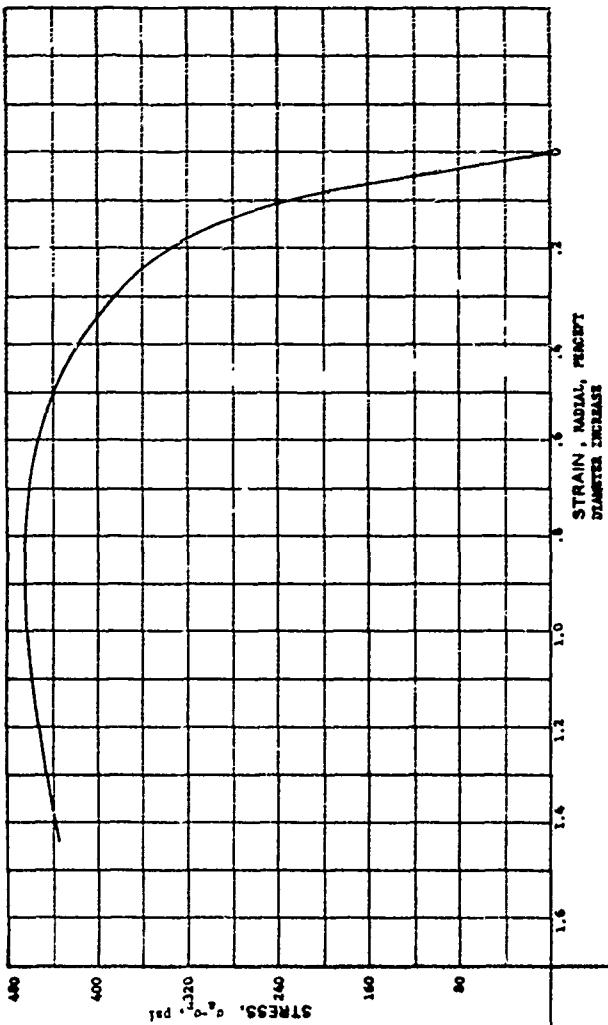
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

PROJECT	Geotech B-602;		
Contract No. BAC039-67-C-0031			
AREA			
BORING NO.	SAMPLE NO. 35		
DEPTH	DATE		
EL.	LL	PL	P1
	27	15	12
DESCRIPTION	McDonald Ranch Sand		

WATER CONTENT	W	10.34	%
VOID RATIO	e ₀	0.3445	
SATURATION	S ₀	60.14	%
DRY DENSITY	γ_d	123.92	pcf
WET DENSITY	γ_w	136.73	pcf
SPECIMEN GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.53	cm



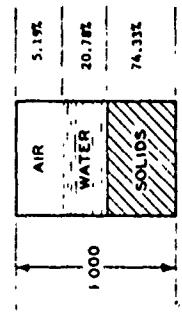
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

PROJECT	Geotech B-602;
	Contract No. DMC-A39-67-C-0051
<hr/>	
AREA	
BORING NO.	SAMPLE NO. 35
DEPTH EL	DATE
LL 27	PL 15
	P1 12
DESCRIPTION McCorck Ranch Sand	
<hr/>	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.51	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	80.02	%
DRY DENSITY	γ_d	123.34	PCF
WET DENSITY	γ_w	136.31	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	CM
COEF. OF VEN. HEIGHT	H_o	7.55	CM

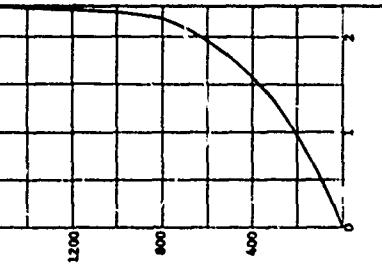
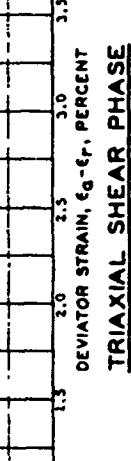


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P_h , PSI

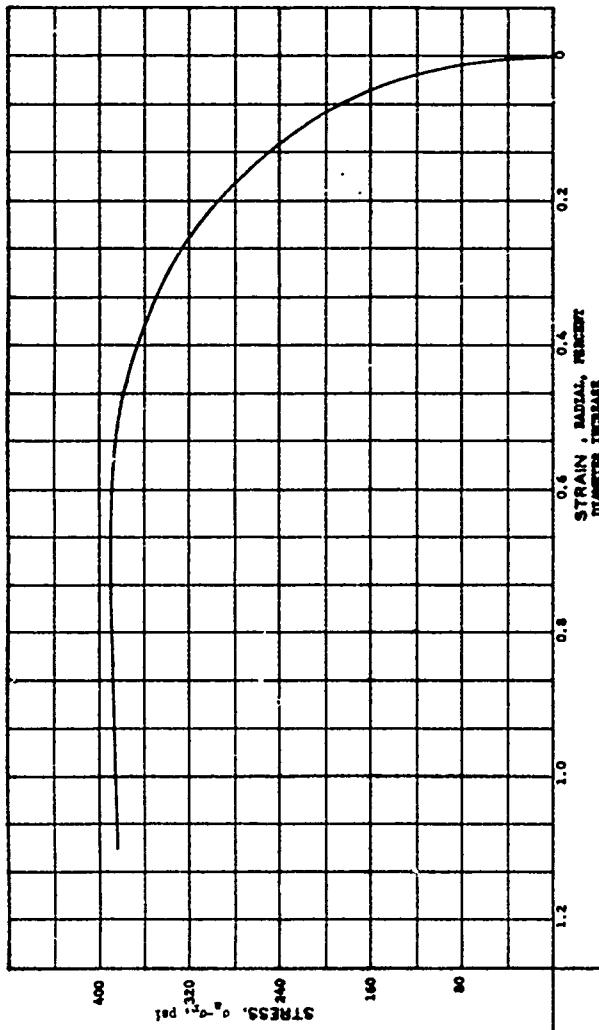
HYDROSTATIC PRESSURE, P_h , PSI

30

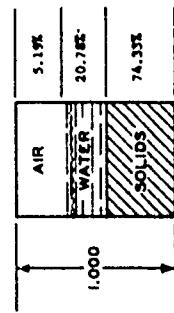


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	<u>Co-Tech B-602</u>
Contract No.	<u>DMC39-67-C-0051</u>
AREA	
BORING NO.	<u>44</u>
DEPTH EL.	<u>27</u>
LL	<u>PL</u>
PL	<u>15</u>
PI	<u>12</u>
DESCRIPTION	<u>McDonald Ranch Sand</u>



WATER CONTENT	W	10.51	%
VOID RATIO	e_0	0.35	
SATURATION	S_0	80.02	%
DRY DENSITY	γ_d	123.34	PCF
WET DENSITY	γ	136.31	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	CM
SPECIMEN HEIGHT	l_0	7.55	CM

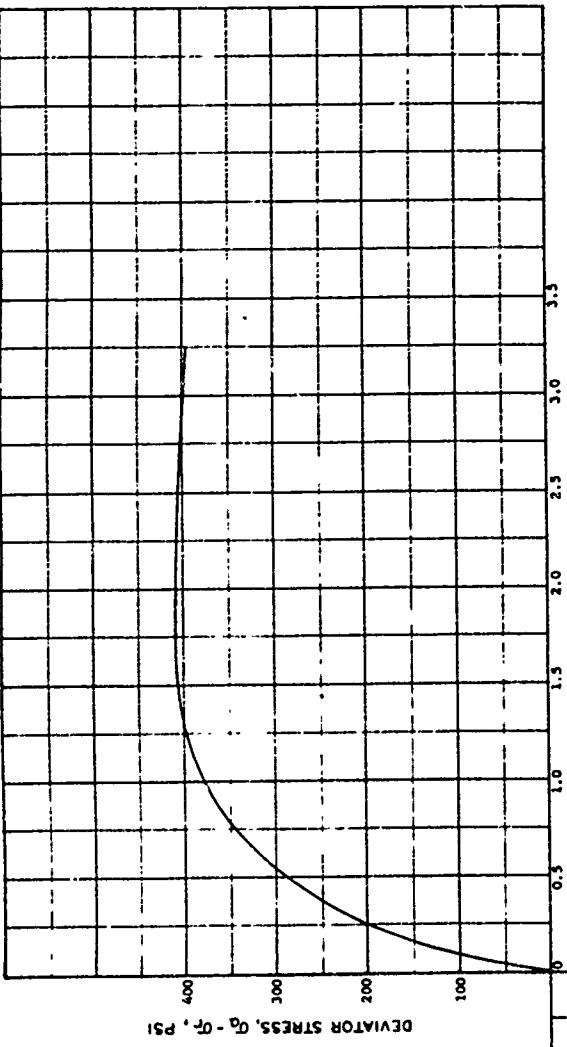


HYDROSTATIC COMPRESSION PHASE

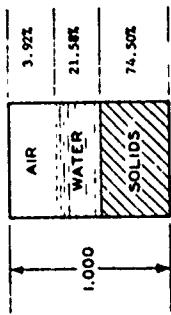
HYDROSTATIC PRESSURE, P, PSI

PROJECT	Ge Tech B-602.		
	Contract No. DMOA59-67-C-0031		
AREA			
BORING NO.	SAMPLE NO. 44		
DEPTH	DATE		
EL.	27	PL.	15
L.L.		P1	12
DESCRIPTION	McComick Ranch Sand		

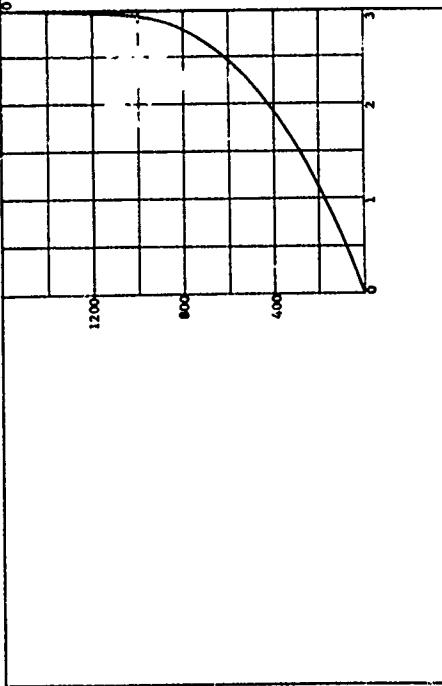
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.85 %
VOID RATIO	e_0	0.34
SATURATION	S_o	84.61 %
DRY DENSITY	γ_d	124.11pcf
WET DENSITY	γ	137.58pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 cm
SPECIMEN HEIGHT	H_b	7.55 cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, p , PSI

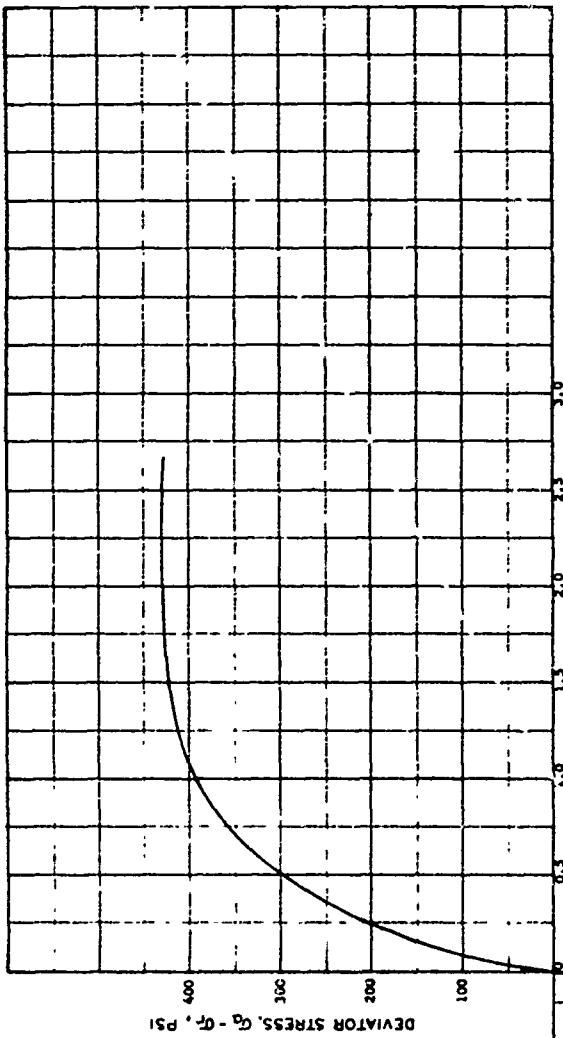
32

TRIAXIAL SHEAR PHASE

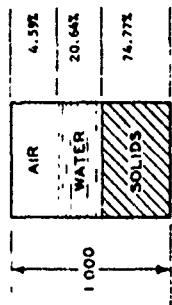
PROJECT	Da Tech S-602	CONTRACT NO.	DA-C-47-C-0031
AREA			
BORING NO.	SAMPLE NO.	DATE	
DEPTH			
EL.			
LL	PL	15	P1
			12
DESCRIPTION: McCormick Beach Sand			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.34 %
VOID RATIO	e ₀	0.34
SATURATION	s ₀	81.81 %
DRY DENSITY	γ_d	126.57pcf
WET DENSITY	γ	137.45pcf
PACIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.55 cm

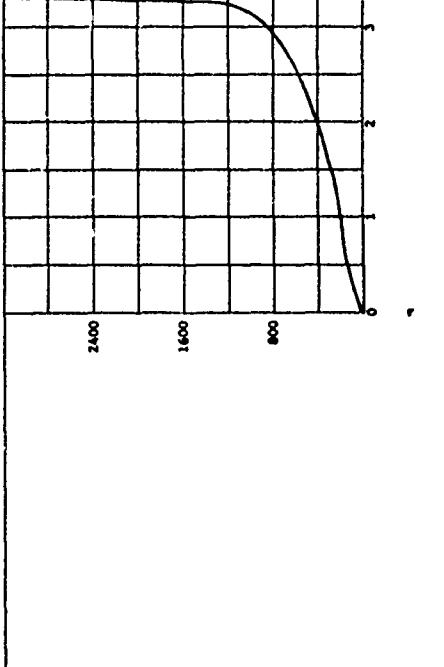


HYDROSTATIC COMPRESSION PHASE



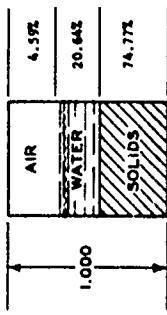
HYDROSTATIC PRESSURE, P, PSI

33



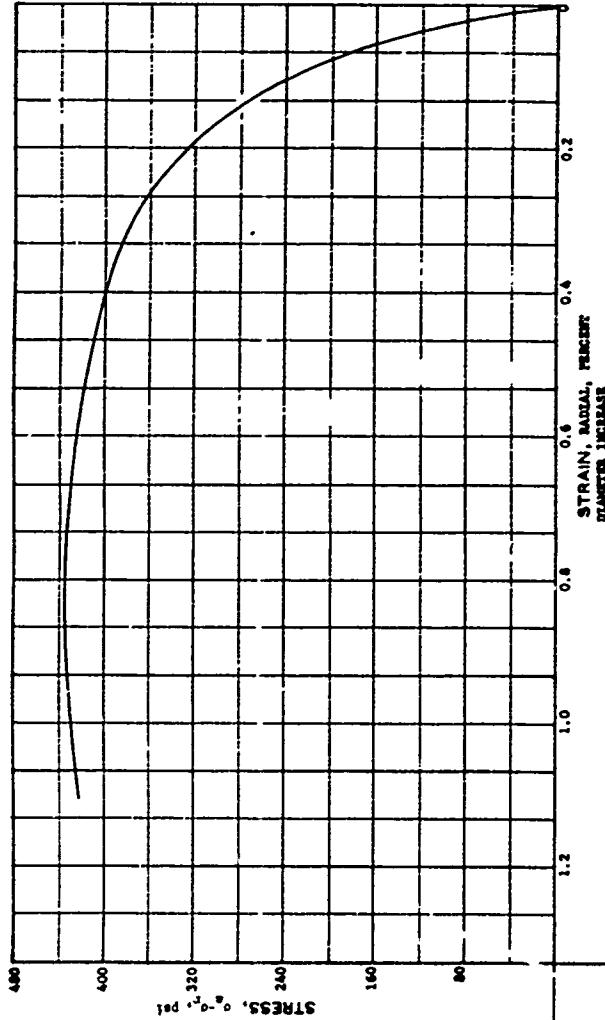
PROJECT	Geotech 1-08;
Contract No. DA-359-67-C-0091	
AREA	
BORING NO.	SAMPLE NO. 41
DEPTH	DATE
EL.	
LL	P ₁ 15 P ₂ 12
DESCRIPTION McCormick Ranch Sand	

WATER CONTENT	W	10.35 %
VOID RATIO	e_0	0.36
SATURATION	S_0	81.81 %
DRY DENSITY	γ_d	124.57pcf
WET DENSITY	γ'	137.45pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.49 cm
SPECIMEN HEIGHT	H_0	7.51 cm



HYDROSTATIC COMPRESSION PHASE

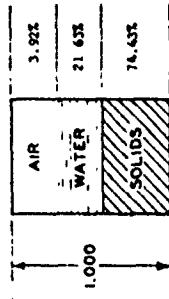
HYDROSTATIC PRESSURE, P, PSI



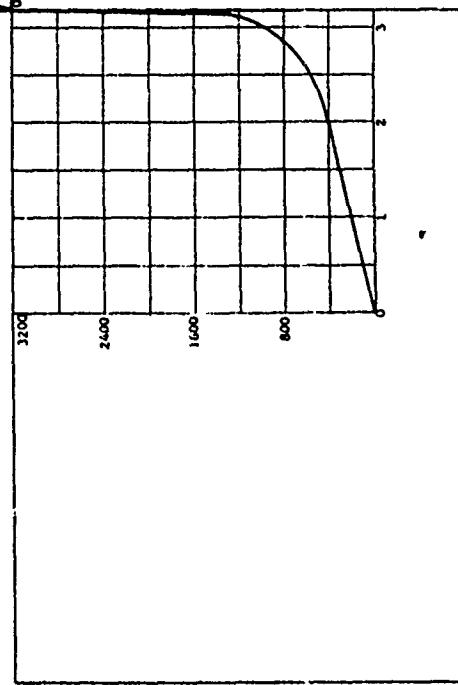
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	QA Tech B-0021				
Contract No. DACA99-07-C-0091					
AREA					
BORING NO.	SAMPLE NO. 41				
DEPTH EL	DATE				
LL	27	PL	13	P1	12
DESCRIPTION Sediment Beach Sand					

WATER CONTENT	W	10.89 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	84.67 %
DRY DENSITY	γ_d	126.00pcf
WET DENSITY	γ	137.51pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.58 cm



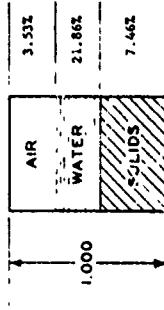
HYDROSTATIC COMPRESSION PHASE



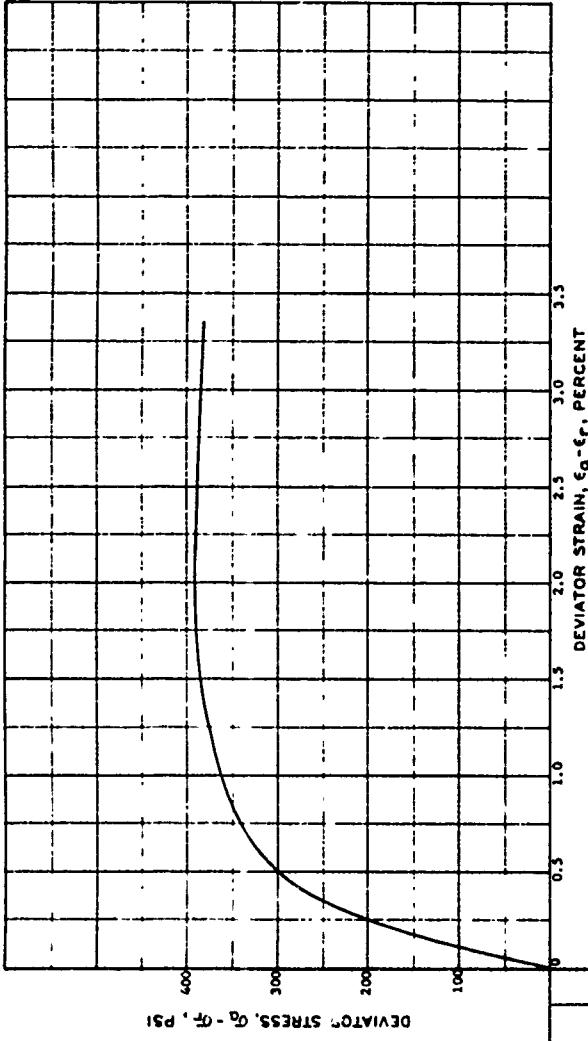
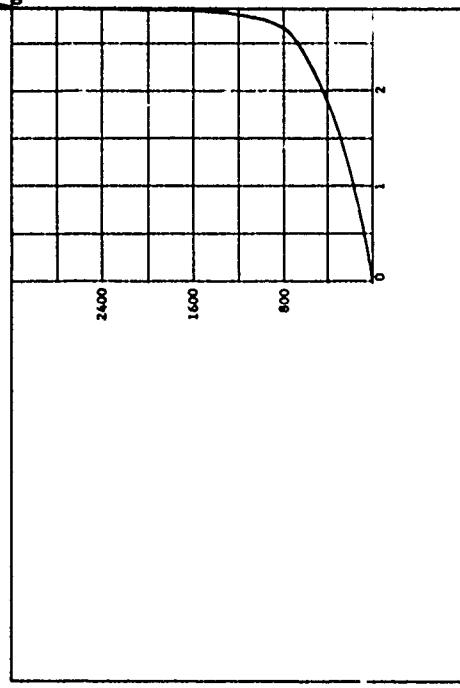
PROJECT Ga Tech B-4022
Contract No. DACA39-67-C-0001

AREA	SAMPLE NO. 43		DATE		
BORING NO.	LL	PL	13	P1	12
DEPTH					
EL.					
DESCRIPTION H-Combustion Ranch Site					

WATER CONTENT	W	10.98 %
VOID RATIO	e_0	0.34
SATURATION	S_o	86.11 %
DRY DENSITY	γ_d	124.30pcf
WET DENSITY	γ	137.95pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.55 cm



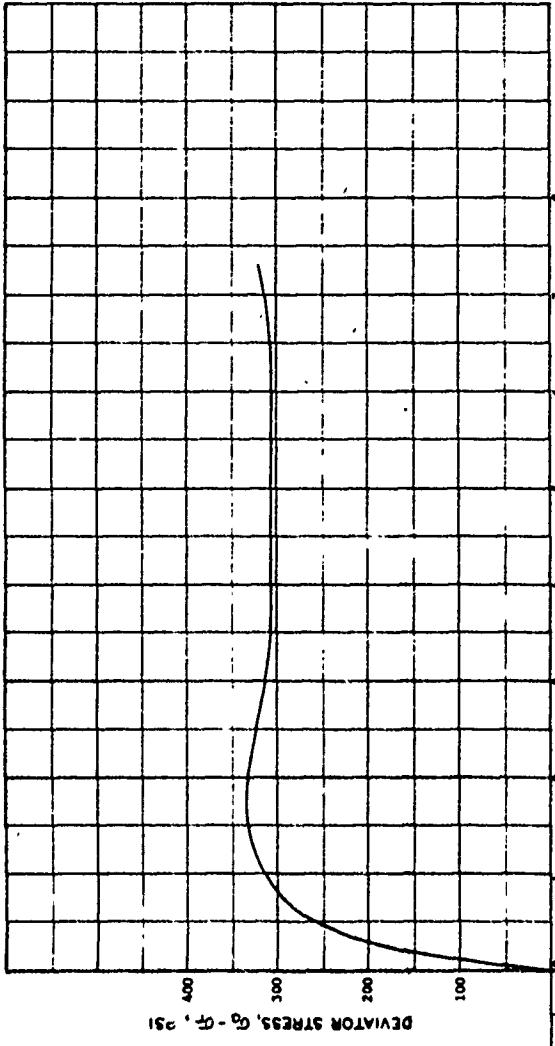
HYDROSTATIC COMPRESSION PHASE



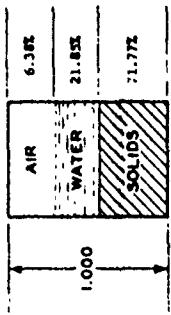
TRIAXIAL SHEAR PHASE

PROJECT	G-Tech 1-602
Contract No. DMA-C3-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 55
DEPTH	DATE
EL. -	
LL	PL 15 P1 12
DESCRIPTION McComack Ranch Sand	

WATER CONTENT	W	11.40	%
VOID RATIO	e _o	0.39	
SATURATION	S _o	77.40	%
DRY DENSITY	γ_d	119.57	pcf
WET DENSITY	γ	133.20	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.54	cm
SPECIMEN HEIGHT	H _o	7.54	cm



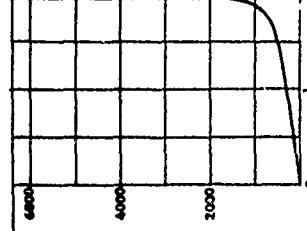
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

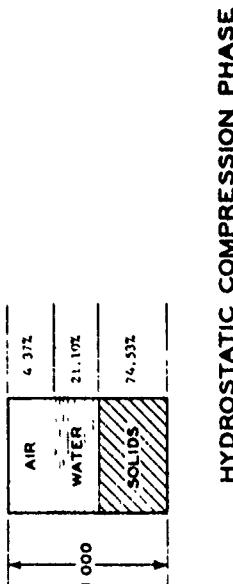
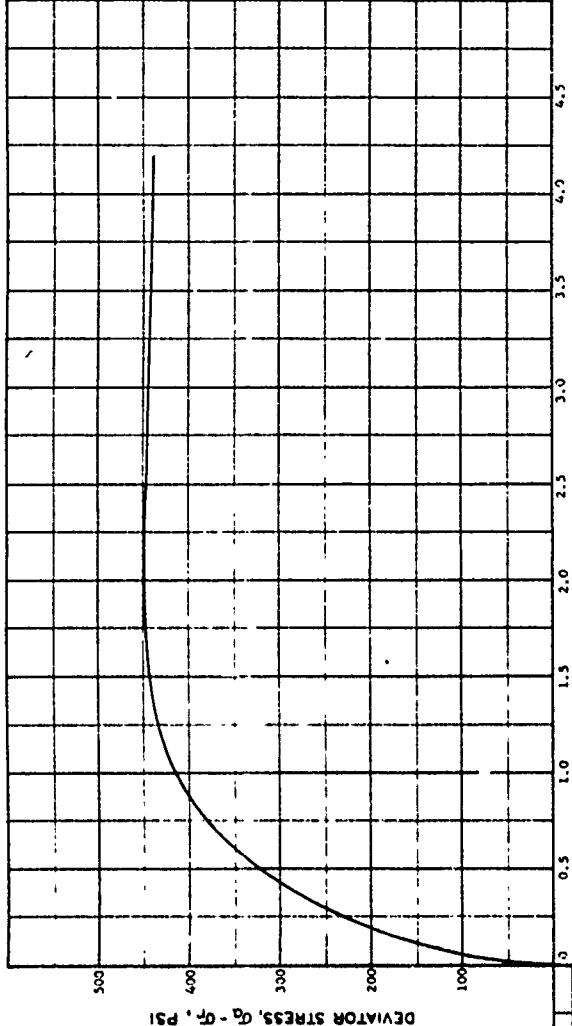
37

TRIAXIAL SHEAR PHASE



PROJECT	Ga Tech 8-402:		
Contract No. DMA031-67-C-0031			
AREA	SAMPLE NO. 39		
BORING NO.	DATE		
DEPTH			
EL			
LL	27	PL	15
		P1	12
DESCRIPTION N-Corner Ranch Sand			

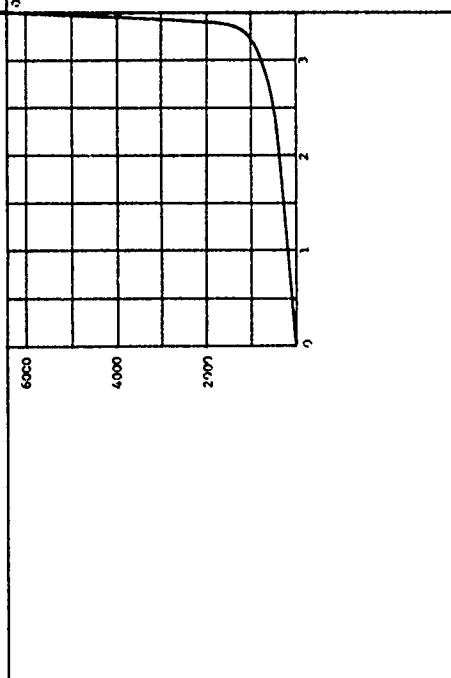
WATER CONTENT	W	10.40	%
VOID RATIO	e ₀	0.34	
SATURATION	S ₀	82.65	%
DRY DENSITY	γ_d	126.18	pcf
WET DENSITY	γ	137.36	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.55	cm



$\Delta V/V_0$, PERCENT

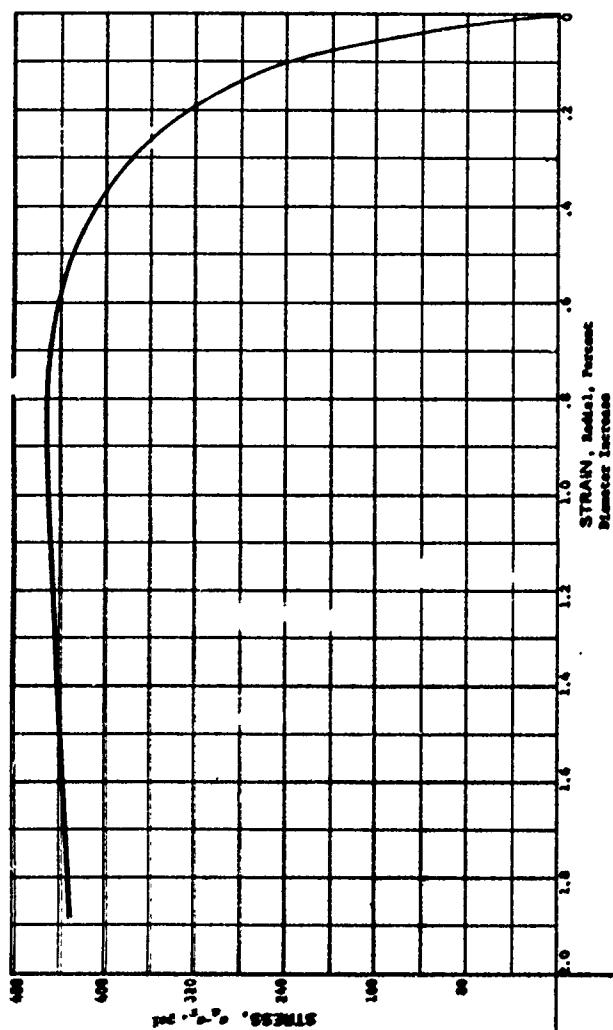
38

TRIAXIAL SHEAR PHASE

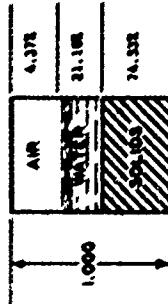


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Ge Tech 8-602
Contract No.	INCA39 67-C 0451
AREA	
BORING NO.	SAMPLE NO. 42
DEPTH:	DATE
EL.	
LL	PL 15
	P1 12
DESCRIPTION: Recorciat: Tanch sand	



WATER CONTENT	W	16.00	%
VOL% RATIO	G _w	0.34	
SATURATION	S _r	0.85	%
DRY DENSITY	γ_d	114.18	pcf
WET DENSITY	γ_w	137.34	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _s	3.50	cm
SPECIMEN HEIGHT	H _s	7.35	cm



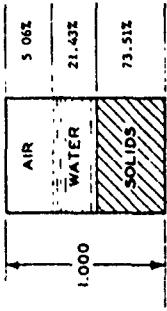
HYDROSTATIC COMPRESSION PHASE

HYDROSTATICIC PRESSURE, P, PSI

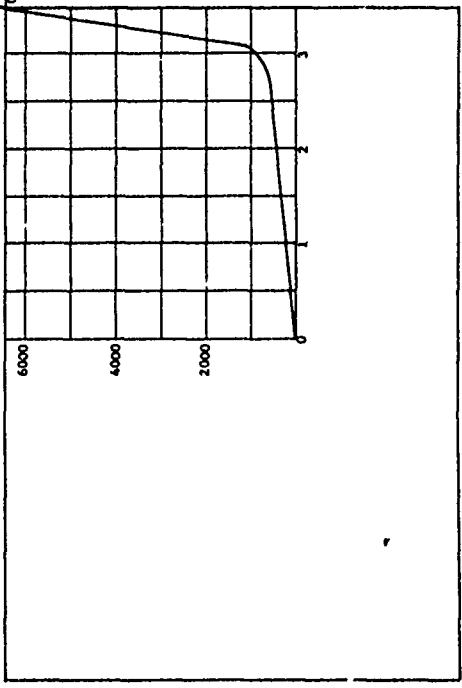
PROJECT	Ge. Tech S-662,		
	Contract No. MCGA9-67-C-0051		
AREA	BORING NO.	SAMPLE NO. 42	
	DEPTH EL.	DATE	
	ft.	PL.	15
	27	P1	12
DESCRIPTION	McMordit Ranch Sand		

VOLUMETRIC STRAIN, $\Delta V/V$, PERCENT

WATER CONTENT	W	10.92	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	80.90	%
DRY DENSITY	γ_d	122.48	pcf
WET DENSITY	γ	135.85	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	cm
SPECIMEN HEIGHT	H_o	7.56	cm

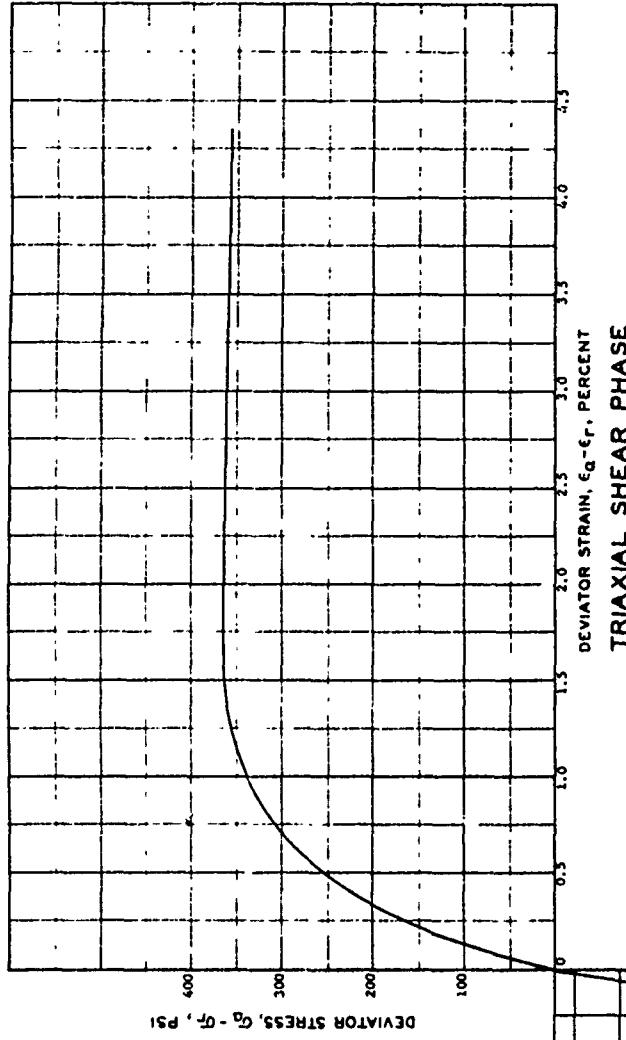


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

40

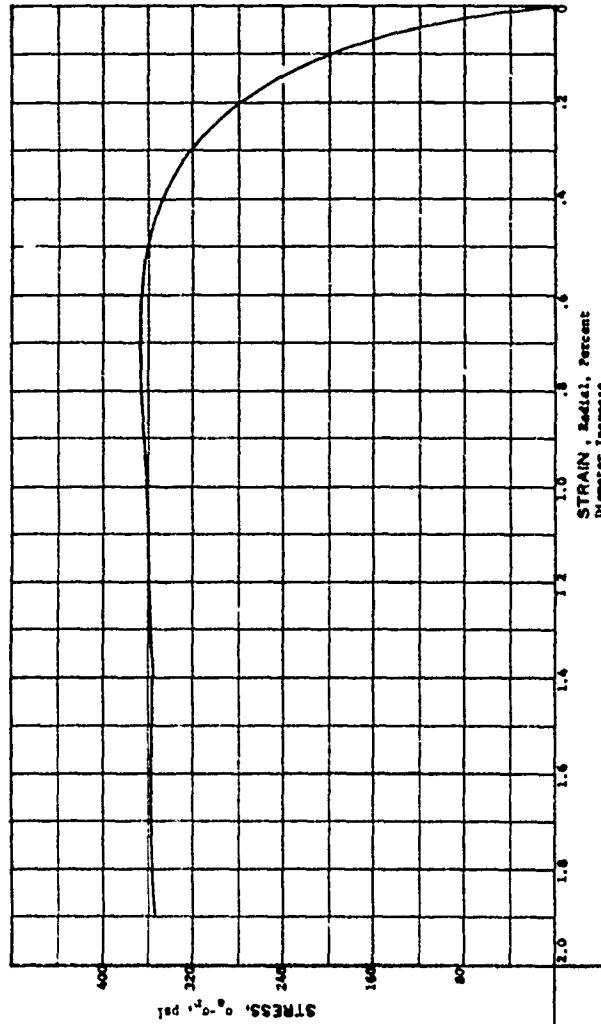


DEVIATOR STRESS, G-d - q-f, PSI
TRIAXIAL SHEAR PHASE

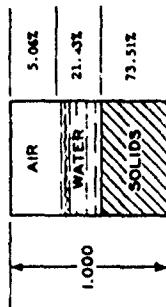
PROJECT	QA Tech B-602	SAMPLE NO.	56
Contract No. DAAG39-67-C-0031		DATE	
AREA			
BORING NO.		EL	
DEPTH		LL	
PL	27	P1	12
DESCRIPTION McComatek Ranch Sand			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.92	%
VOID RATIO	e ₀	0.36	
SATURATION	s ₀	80.90	%
DRY DENSITY	γ_d	122.48	pcf
WET DENSITY	γ_w	135.85	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.51	cm
SPECIMEN HEIGHT	H ₀	7.56	cm



HYDROSTATIC COMPRESSION PHASE



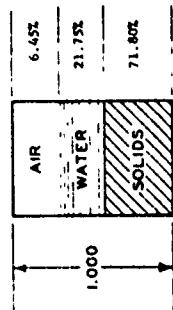
HYDROSTATIC PRESSURE, P, PSI

41

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Ge-Tech B-002;
Contract No. DA-39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 54
DEPTH	DATE
EL	
LL	PL 15 P1 12
DESCRIPTION McCormick Branch Sand	

WATER CONTENT	W	11.34	%
VOID RATIO	e_0	0.39	
SATURATION	S_o	77.13	%
DRY DENSITY	γ_d	119.63	PCF
WET DENSITY	γ	133.20	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.55	CM
ORIGIN HEIGHT	H_o	7.55	CM

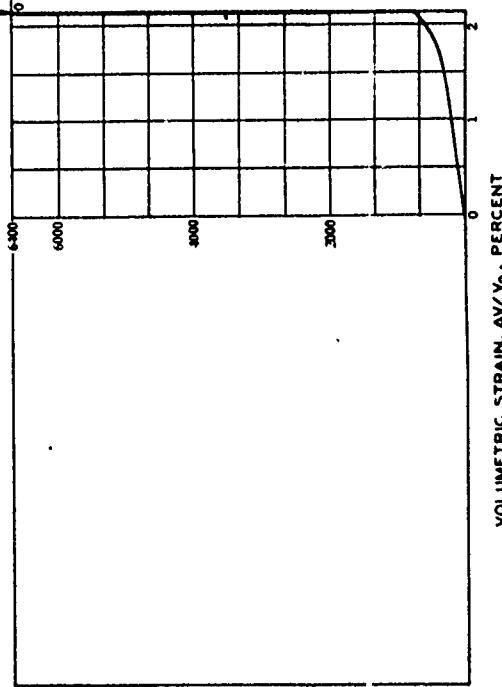


HYDROSTATIC COMPRESSION PHASE

42

DEVIATOR STRESS, $G_o - G_f$, PSI
PROJECT No. 2.5 3.0 3.5

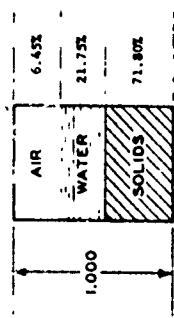
TRIAXIAL SHEAR PHASE



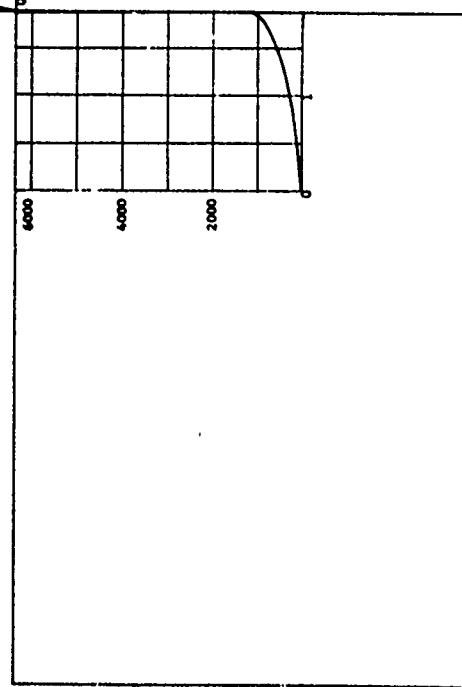
VOLUMETRIC STRAIN, AV/V_0 , PERCENT

PROJECT	Da Tech 3-602
Contract No.	DACA39-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 61
DEPTH	DATE
EL.	
LL.	PL 15 P1 12
DESCRIPTION McCornack Ranch Sand	

WATER CONTENT	W	11.34	%
VOID RATIO	e ₀	0.39	
SATURATION	s ₀	77.13	%
DRY DENSITY	γ_d	119.63	pcf
WET DENSITY	γ_w	133.20	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.55	cm
SPECIMEN HEIGHT	H ₀	7.35	cm

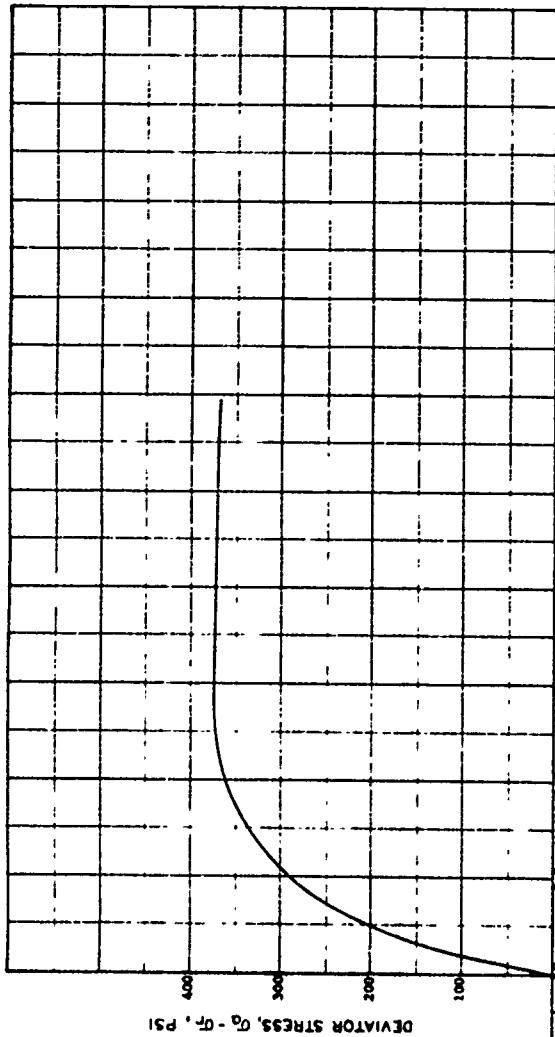


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

43

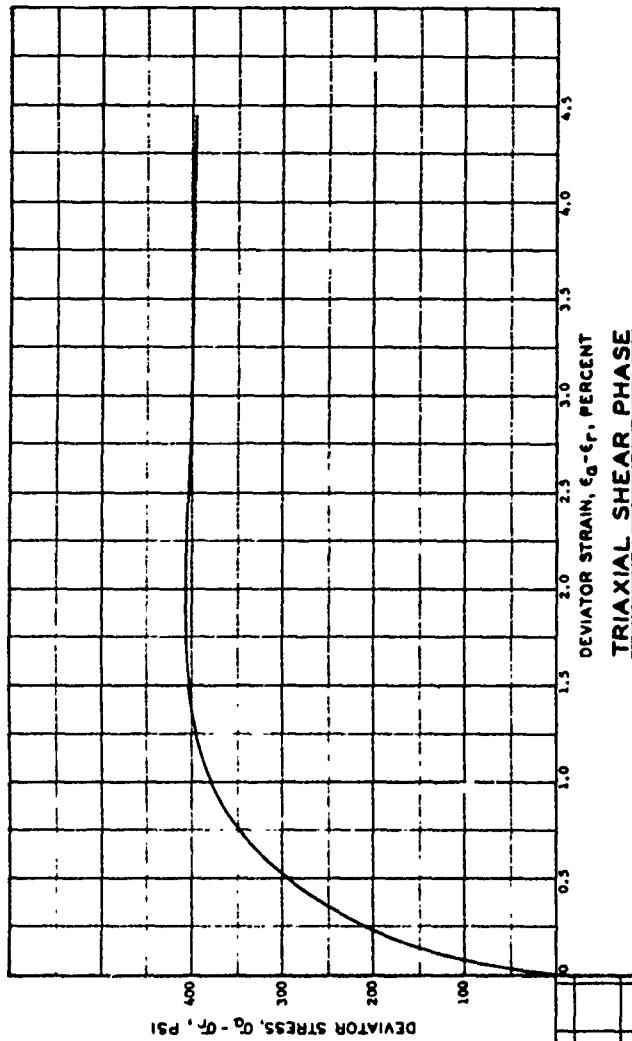


TRIAXIAL SHEAR PHASE

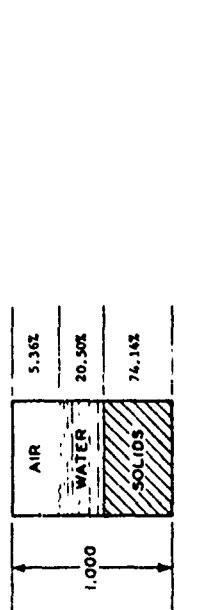
DEVIATOR STRAIN, $\epsilon_d - \epsilon_f$, PERCENT

PROJECT	as Tech 8-602,
Contract No. DUCAS 67-C-0051	
AREA	SAMPLE NO. 63
BORING NO.	DATE
DEPTH	
EL.	
LL	PL 13
	PI 12
DESCRIPTION McCormick Ranch Sand	

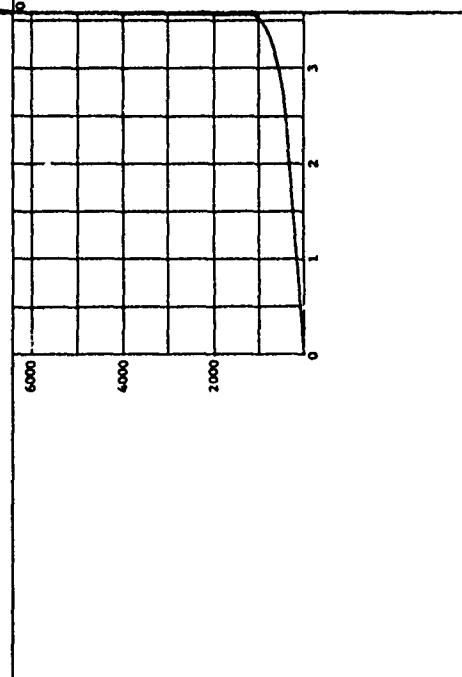
WATER CONTENT	W	10.35	%
VOID RATIO	e ₀	0.35	
SATURATION	S ₀	79.28	%
DRY DENSITY	γ_d	123.53	pcf
WET DENSITY	γ	136.32	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.51	cm
SPECIMEN HEIGHT	H ₀	7.53	cm



DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE



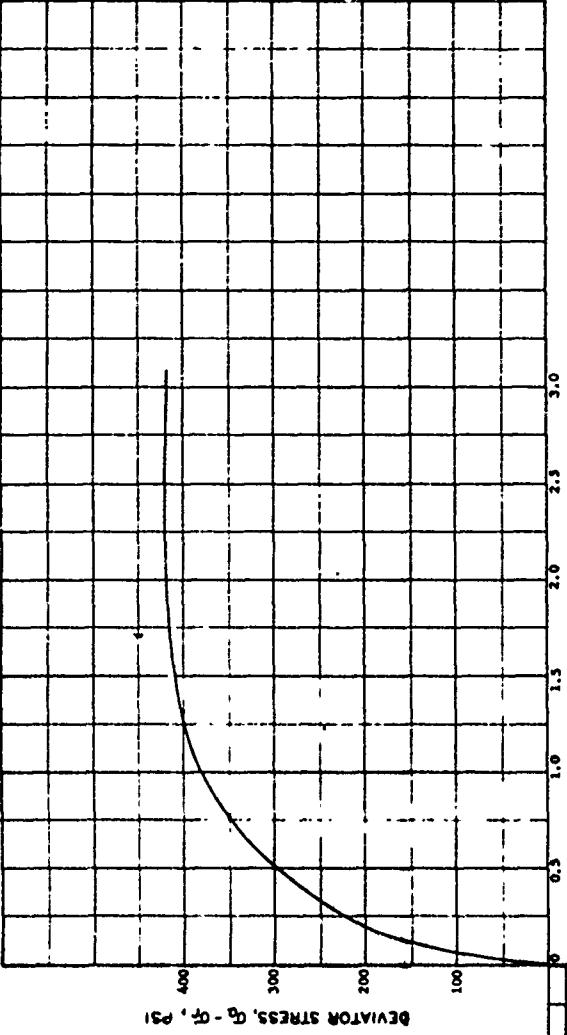
HYDROSTATIC COMPRESSION PHASE



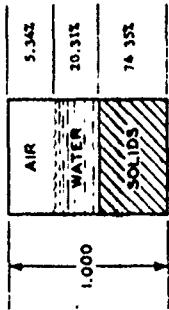
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Ge Tech 8-602
Contract No. DDCR-37-C-0031	
AREA	
BORING NO.	SAMPLE NO.
DEPTH	DATE
EL. -	
LL	PL 15 P1 12
DESCRIPTION McCormick Beach Sand	

WATER CONTENT	W	10.23	%
VOID RATIO	e ₀	0.35	
SATURATION	S ₀	79.19	%
DRY DENSITY	γ_d	123.48	pcf
WET DENSITY	γ	136.36	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.54	cm



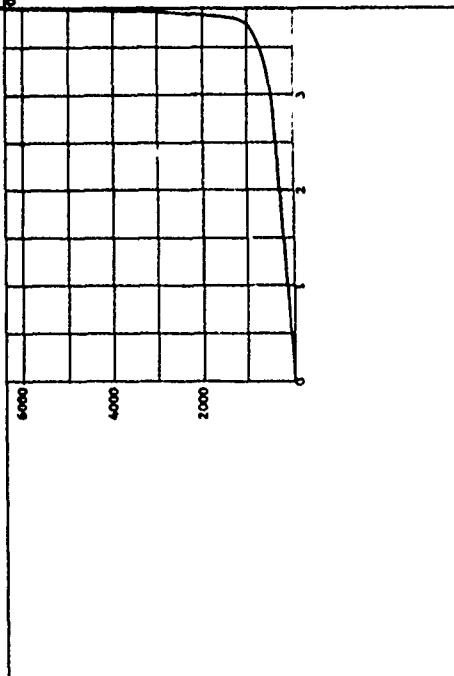
HYDROSTATIC COMPRESSION PHASE



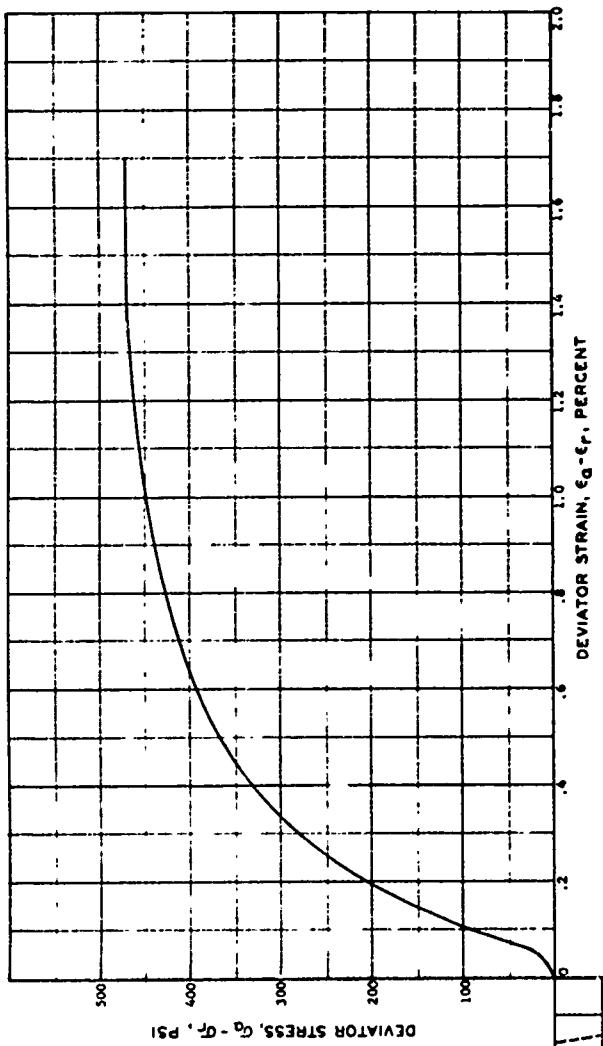
HYDROSTATIC PRESSURE, P, psi

45

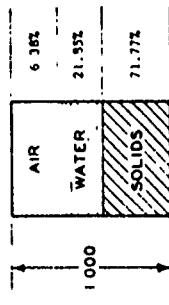
TRIAXIAL SHEAR PHASE



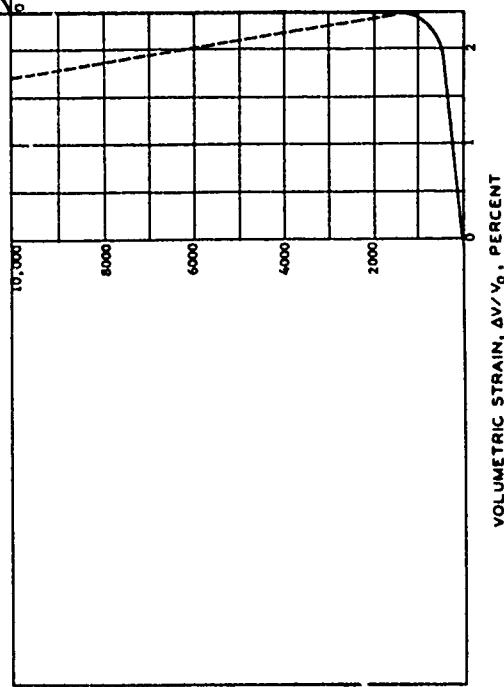
PROJECT	Geotech S-602:
Contract No. DMR39-67-C-0031	
AREA	SAMPLE NO. 177
BORING NO.	DATE
DEPTH	
EL.	
L.L.	P.L.
	15
	P1
	12
DESCRIPTION	McComick Ranch Sand



WATER CONTENT	W	11.40	%
VOID RATIO	e_0	0.39	
SATURATION	S_o	77.40	%
DRY DENSITY	γ_d	119.57	PCF
WET DENSITY	γ	133.20	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.55	CM
APPARENT WEIGHT	M_o	7.55	GM



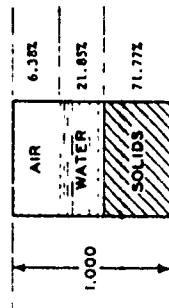
HYDROSTATIC COMPRESSION PHASE



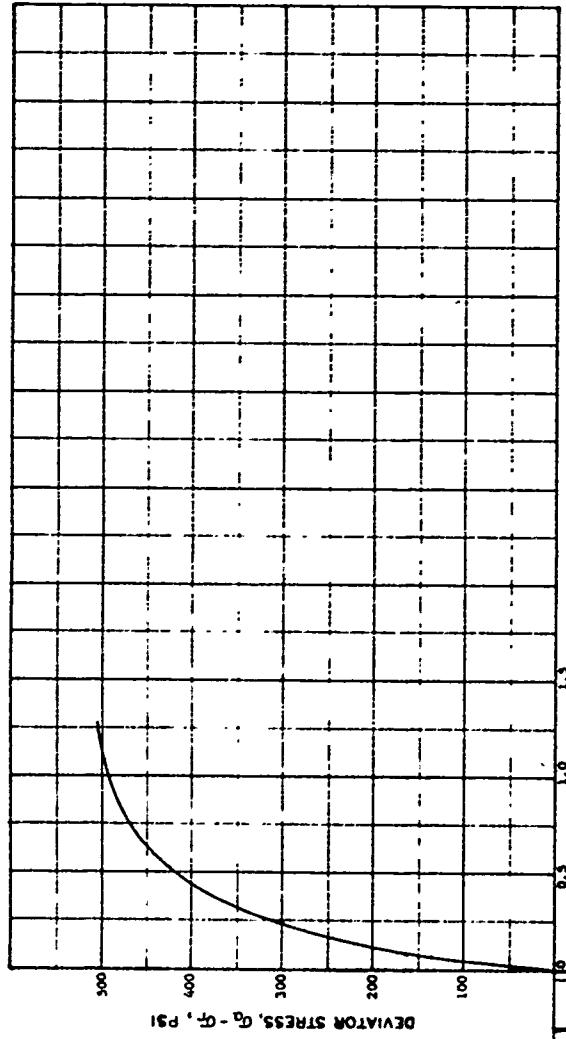
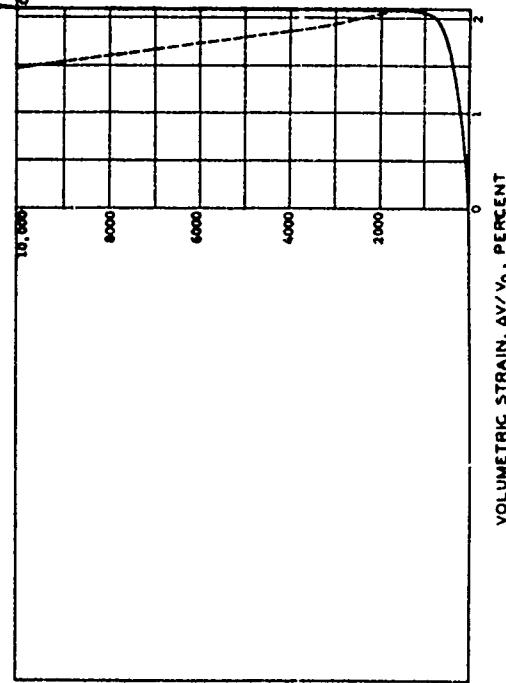
HYDROSTATIC PRESSURE, P , PSI
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Geotech B-602,
Contract No. DMRCA9-67-C-0031	
AREA	SAMPLE NO. 38
BORING NO.	DATE
DEPTH	
EL.	
LL	PL 15
	PI 12
DESCRIPTION: McCormick Ranch Sand	

WATER CONTENT	W	11.40	%
VOID RATIO	e_0	0.39	
SATURATION	S_g	77.40	%
DRY DENSITY	γ_d	119.57	pcf
WET DENSITY	γ	133.20	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.36	cm
SPECIMEN HEIGHT	H_o	7.54	cm



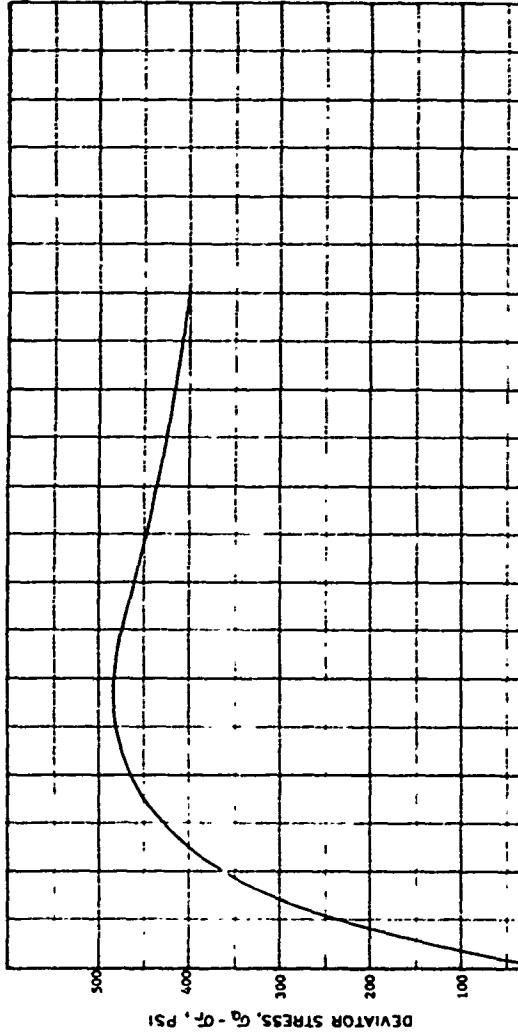
HYDROSTATIC COMPRESSION PHASE



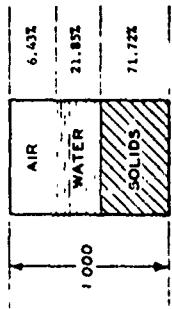
TRIAXIAL SHEAR PHASE

PROJECT	G4 Tech 8-402.
Contract No.	DACAR-67-C-0031
AREA	
BORING NO.	
DEPTH	
EL.	
LL	27
PL	13
P1	12
DATE	
DESCRIPTION McGehee Ranch Sand	

WATER CONTENT	W	11.41 %
VOID RATIO	e _o	0.39
SATURATION	s _o	77.26 %
DRY DENSITY	γ _d	119.48 PCF
WET DENSITY	γ	133.12 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _o	3.57 CM
SPECIMEN HEIGHT	H _o	7.50 CM

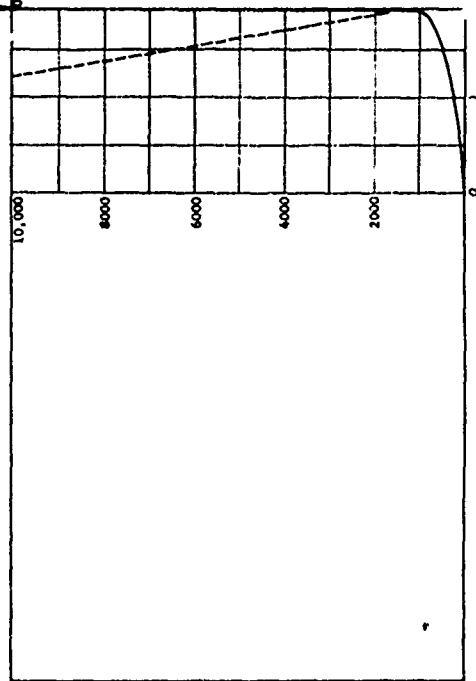
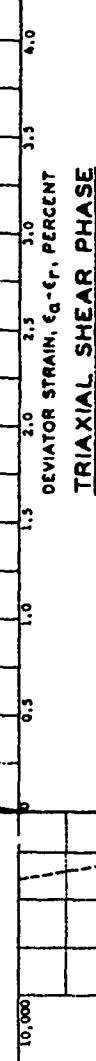


HYDROSTATIC COMPRESSION PHASE



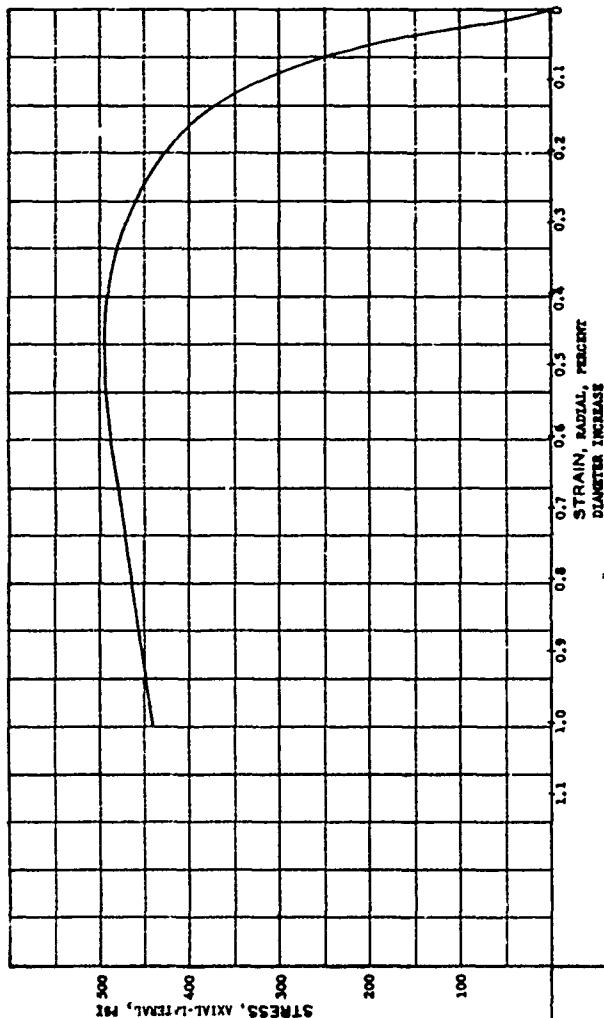
- HYDROSTATIC PRESSURE, P, PSI

48

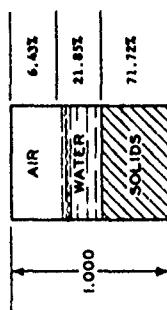


PROJECT	G- Tech B-002
Contract No.	DMC39-67-C-0031
AREA	
BORING NO.	
DEPTH	
E.L.	
LT	
PL	15
P1	12
DESCRIPTION	McGinnish Ranch sand
Tetrahedral Test @ 10,000 psi.	

WATER CONTENT	W	11.41	%
VOID RATIO	e_0	0.39	
SATURATION	S_o	77.26	%
DRY DENSITY	γ_d	119.48	PCF
WET DENSITY	γ'	133.12	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.57	CM
SPECIMEN HEIGHT	H_0	7.50	CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

49

PROJECT	Ga Tech B-6021
Contract No. DAGAS12-47-C-0031	
AREA	
BORING NO.	SAMPLE NO. 59
DEPTH	DATE
EL	
LL	PL
	13
	P1
	12

DESCRIPTION: McCombish, North Sand
TESTED TO 10,000 PSI

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

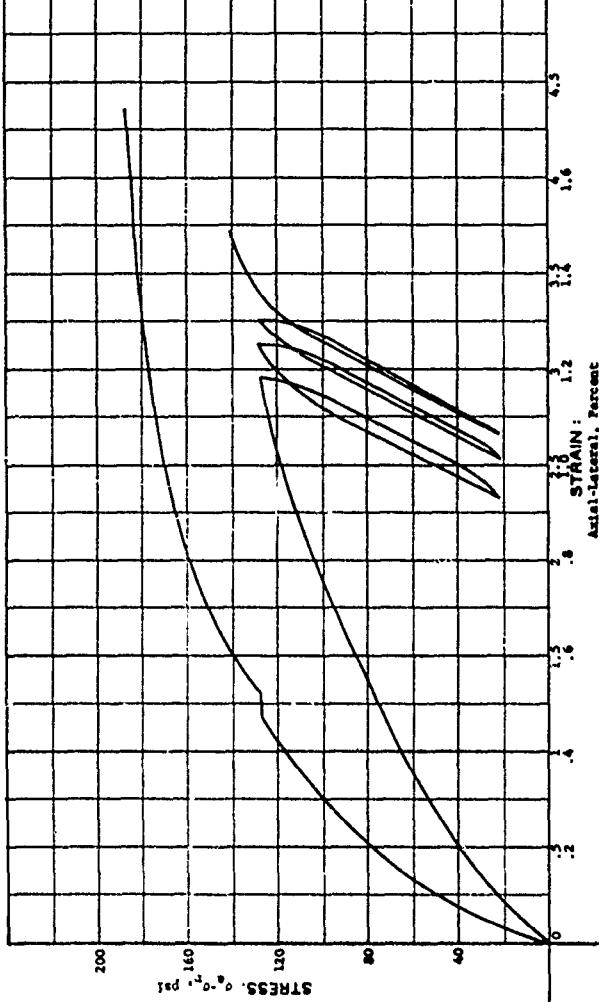
Group B

Triaxial Tests, Cyclic at 35%

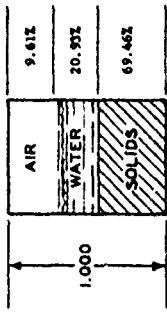
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WATER CONTENT	w	11.28 %
VOID RATIO	e ₀	0.44
SATURATION	s _o	68.52 %
DRY DENSITY	γ_d	115.72 PCF
WET DENSITY	γ	128.78 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.51 CM

STRESS, σ , psi



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , psi

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53

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

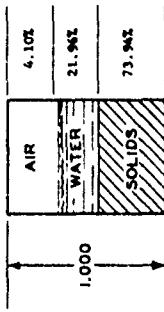
PROJECT Ge Tech 3-602;
Contract No. DACA39-67-C-0031

AREA

BORING NO.	SAMPLE NO.	DATE
LL 27	PL 15	P1 12

DESCRIPTION McCordick Ranch Sand
Initial-Cycle Shear @ 1%

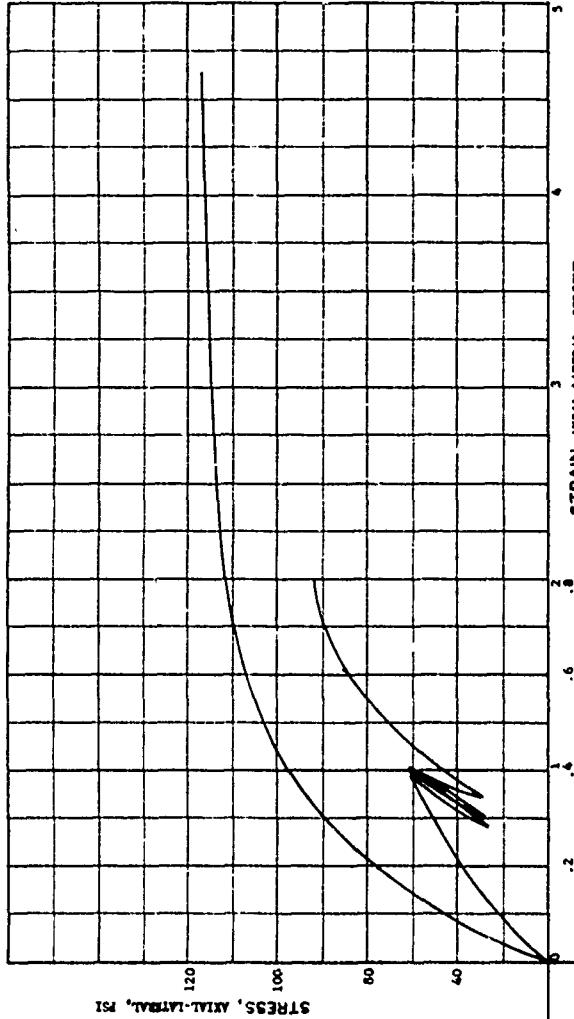
WATER CONTENT	W	11.12 %
VOID RATIO	e_0	0.35
SATURATION	S_0	84.28 %
DRY DENSITY	γ_d	123.20pcf
WET DENSITY	γ	136.90pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 cm
CONFINED HEIGHT	H_o	7.50 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

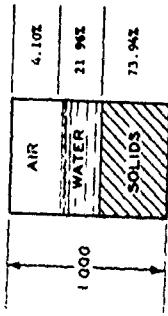
54



PROJECT	Georgia Institute of Technology B-602	
Contract No.	BACAS9-67-C-0031	
AREA		
BORING NO.	SAMPLE NO.	112
DEPTH	DATE	
EL		
LL	PL	15
	PI	12
DESCRIPTION <u>McCordet Ranch Sand</u>		
Triaxial Cyclic @ 3%		
Lateral Pressure, 100 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

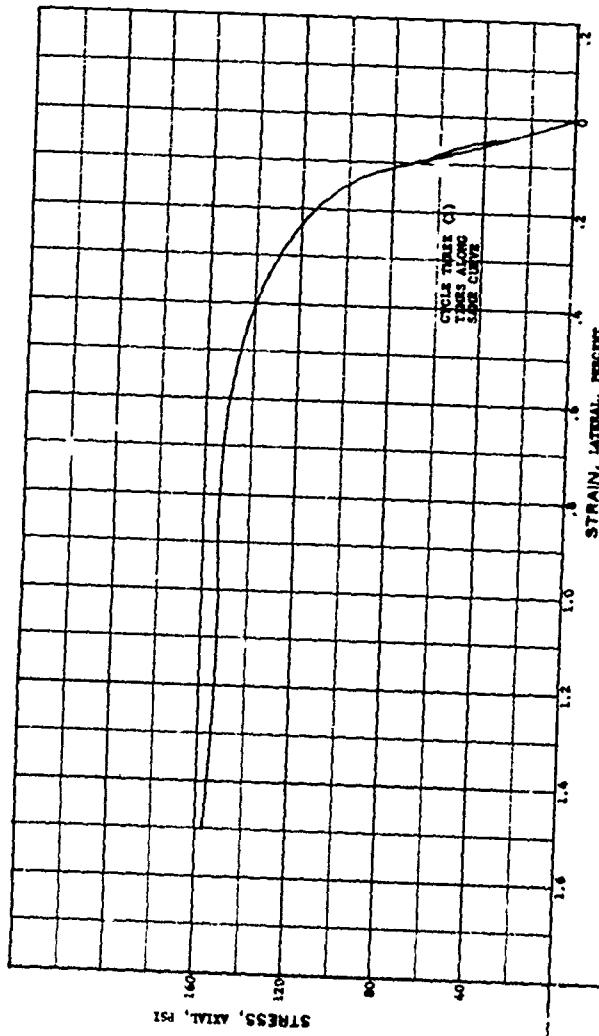
WATER CONTENT	W	11.12 %
VOID RATIO	e_0	0.35
SATURATION	S_o	64.28 %
DRY DENSITY	γ_d	123.20pcf
WET DENSITY	γ	136.90pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 cm
SPECIMEN HEIGHT	H_o	7.50 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

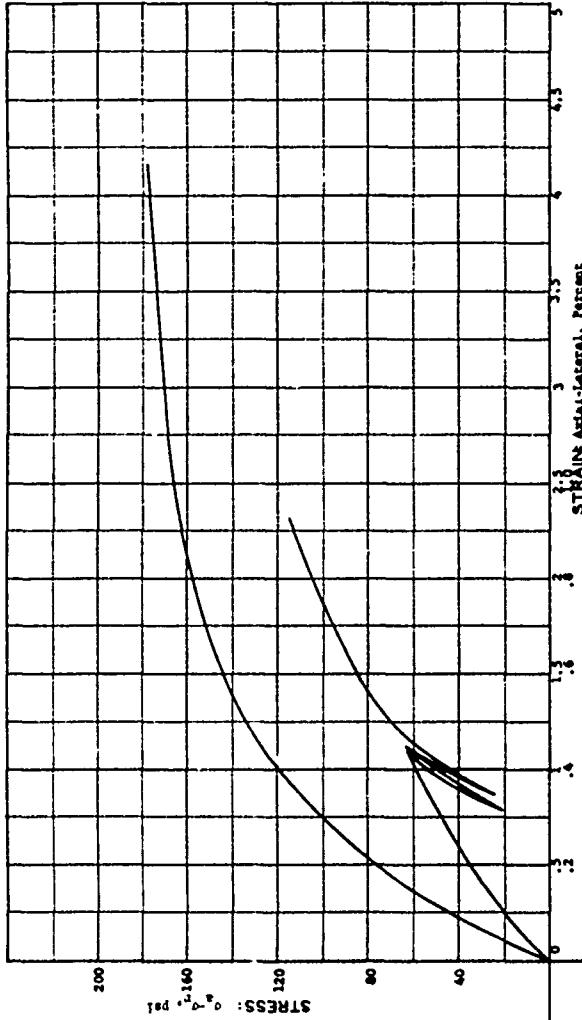
55



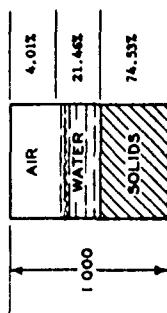
PROJECT	Georgia Institute of Technology B-602
Contract No.	DAC33-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 112
DEPTH	DATE
EL	
DESCRIPTION Mccormick Ranch Sand	
Triaxial Specie G-355	
Lateral Pressure, 100 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.78 %
VOID RATIO	e_0	0.34
SATURATION	S_o	84.25 %
DRY DENSITY	γ_d	126.18pcf
WET DENSITY	γ'	137.57pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.32 cm
SPECIMEN HEIGHT	H_o	7.44 cm



HYDROSTATIC COMPRESSION PHASE



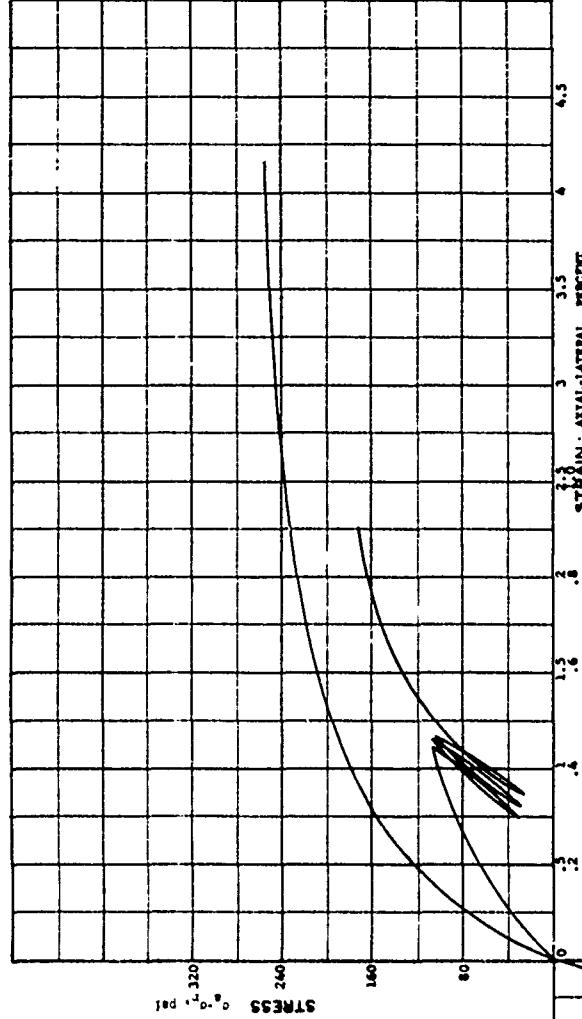
HYDROSTATIC PRESSURE, P , PSI

56

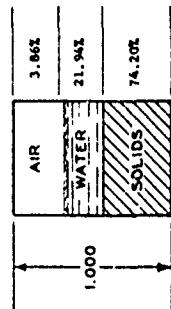
PROJECT Georgia Institute of Technology S-602	
Contract No. DACA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 113
DEPTH	DATE
EL	
LL	PL 15 PI 12
DESCRIPTION McComack Ranch Sand	
Triaxial-Cyclic Shear Q-252	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.07	%
VOID RATIO	e_0	0.35	
SATURATION	S_0	85.03	%
DRY DENSITY	γ_d	123.62	pcf
WET DENSITY	γ	137.31	pcf
GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	cm
SPECIMEN HEIGHT	H_0	7.50	cm



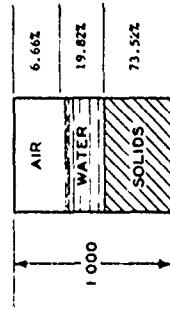
HYDROSTATIC COMPRESSION PHASE



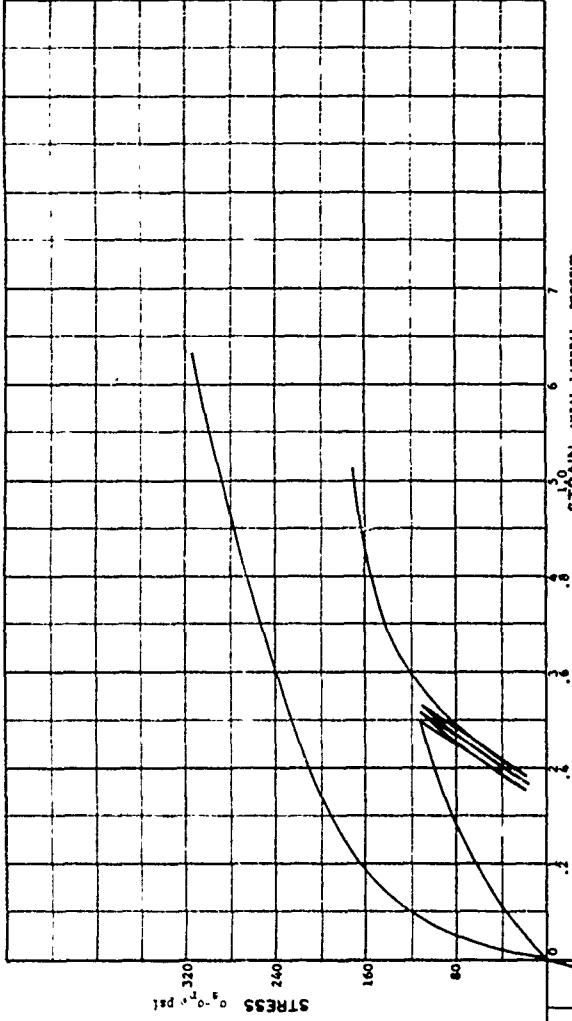
HYDROSTATIC PRESSURE, P, PSI

PROJECT Georgia Institute of Technology E-602	
Contract No. DA-39-67-C-0931	
AREA	
BORING NO.	SAMPLE NO. 116
DEPTH	DATE
EL.	
LL 27	PL 15
	P1 12
DESCRIPTION McCormick Ranch Sand	
TRIAxIAL CYCLE SHEAR @ 35%	

WATER CONTENT	W	10.10	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	74.85	%
DRY DENSITY	γ_d	122.69	pcf
WET DENSITY	γ	134.86	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	cm
SPECIMEN HEIGHT	H_o	7.63	cm

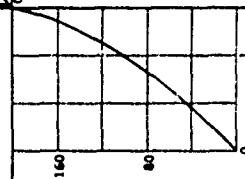


HYDROSTATIC COMPRESSION PHASE



STRESS, σ , lb/in^2 , PSI

STRAIN: AXIAL-LATERAL, PERCENT



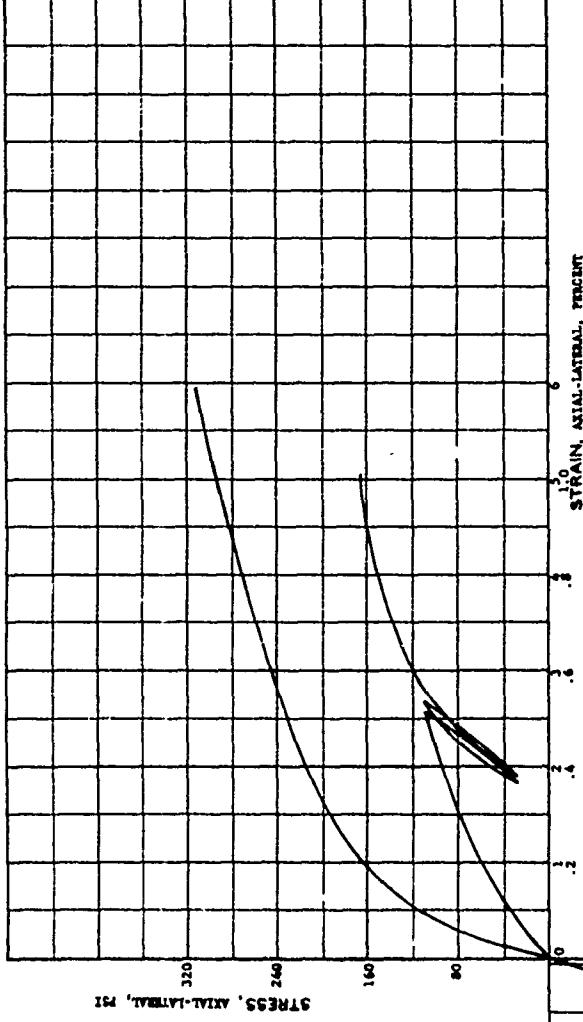
HYDROSTATIC PRESSURE, p , PSI

58

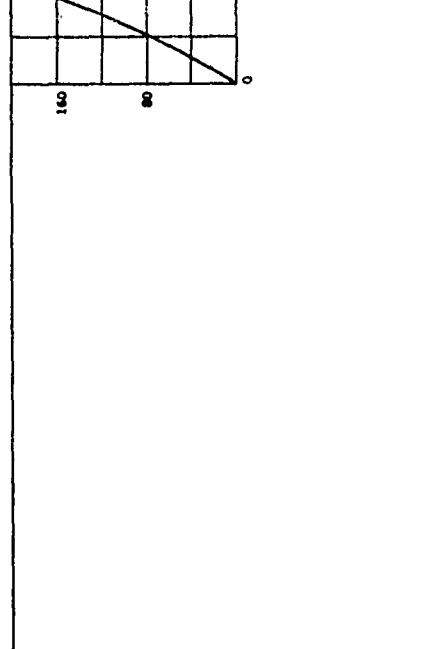
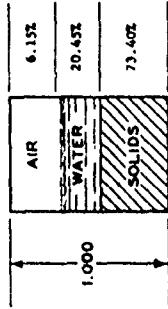
PROJECT <u>Georgia Institute of Technology B-502</u>	
Contract No. <u>DACAR-67-C-0031</u>	
AREA	
BORING NO.	SAMPLE NO. <u>132</u>
DEPTH EL	DATE
LL <u>27</u>	PL <u>15</u>
	P1 <u>12</u>
DESCRIPTION <u>Kennesaw Ranch Sand</u>	
<u>Triaxial-Cyclic Shear @ 35%</u>	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.44 %
VOID RATIO	e ₀	0.36
SATURATION	S ₀	76.89 %
DRY DENSITY	γ_d	122.28 PCF
WET DENSITY	γ	135.05 PCF
SPECIFIC GRAVITY	δ_s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.65 CM

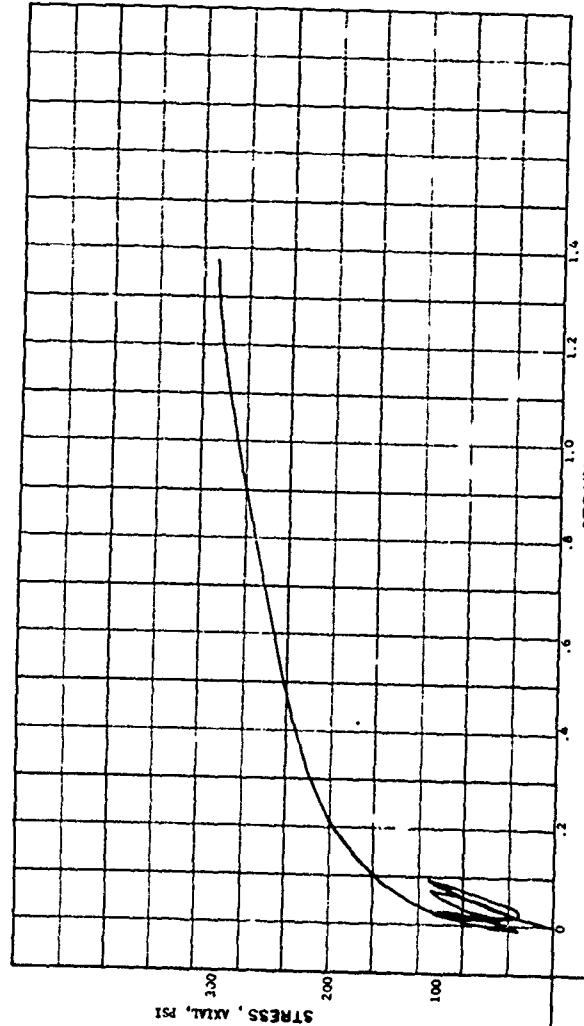


HYDROSTATIC COMPRESSION PHASE

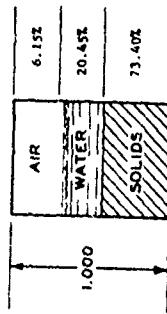


PROJECT Georgia Institute of Technology B-492	
Contract No. DACA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 137
DEPTH	DATE
EL	
LL	PL 15
	P1 12
DESCRIPTION Incremental Axial Load	
Triaxial Cyclic @ 3% Lateral Pressure, 200 psi	
Lateral Pressure, 200 psi	

WATER CONTENT	W	10.44 %
VOID RATIO	e_0	0.36
SATURATION	S_0	76.89 %
DRY DENSITY	γ_d	122.28pcf
WET DENSITY	γ	135.0*pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	.50 cm
SPECIMEN HEIGHT	H_o	7.65 cm



HYDROSTATIC COMPRESSION PHASE



AHYDROSTATIC PRESSURE, P, PSI

60

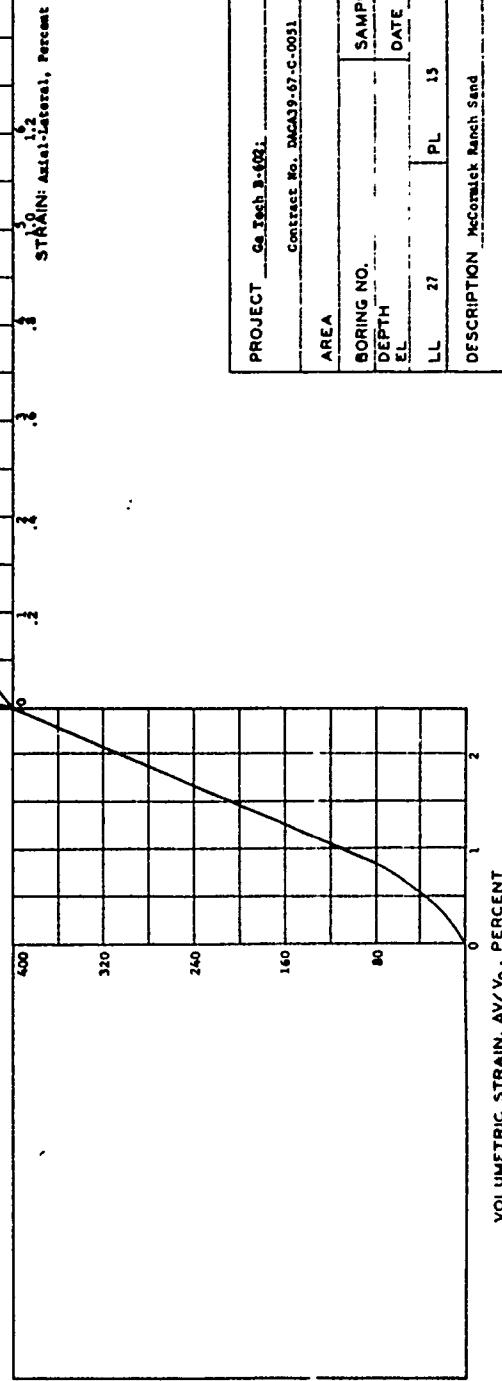
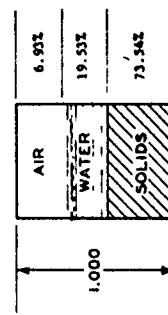
PROJECT Georgia Institute of Technology B-603	
Contract No. DACA9-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 137
DEPTH	DATE
EL	
LL	21
PL	15
	P1 12
DESCRIPTION McCormick Ranch Sand	
TRIAXIAL STRESS, 3.3%	
Lateral Pressure, 200 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	9.34 %
VOID RATIO	e ₀	0.36
SATURATION	S ₀	73.80 %
DRY DENSITY	γ_d	123.33 PCF
WET DENSITY	γ'	134.71 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.64 CM

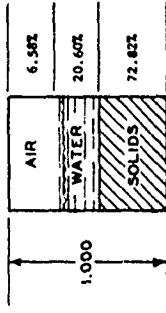


HYDROSTATIC COMPRESSION PHASE

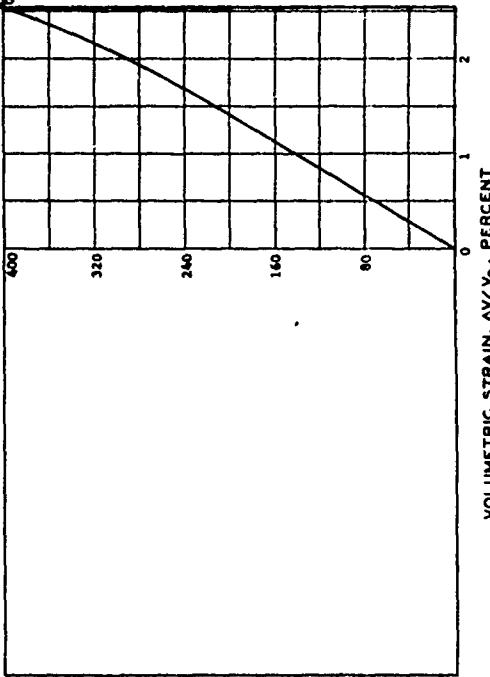


PROJECT	Ge Tech 3-622.
Contract No. DMAA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 133
DEPTH	DATE
EL	
LL	PL 15 PL 12
DESCRIPTION McCormick Ranch Sand	
Triaxial-Cyclic shear Q-355	

WATER CONTENT	W	10.59 %
VOID RATIO	e ₀	0.37
SATURATION	S ₀	75.80 %
DRY DENSITY	γ_d	121.33 PCF
WET DENSITY	γ_w	136.18 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.64 CM

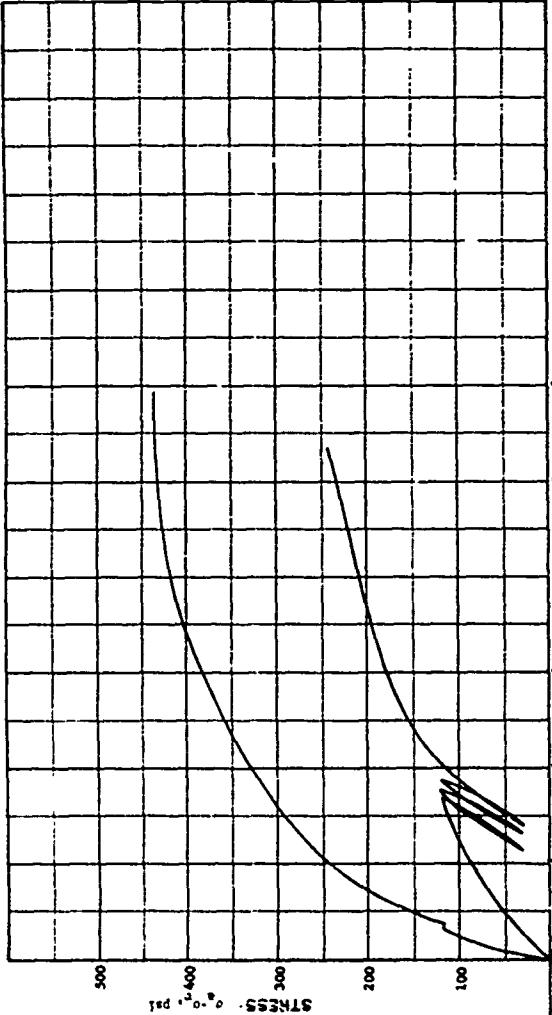


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

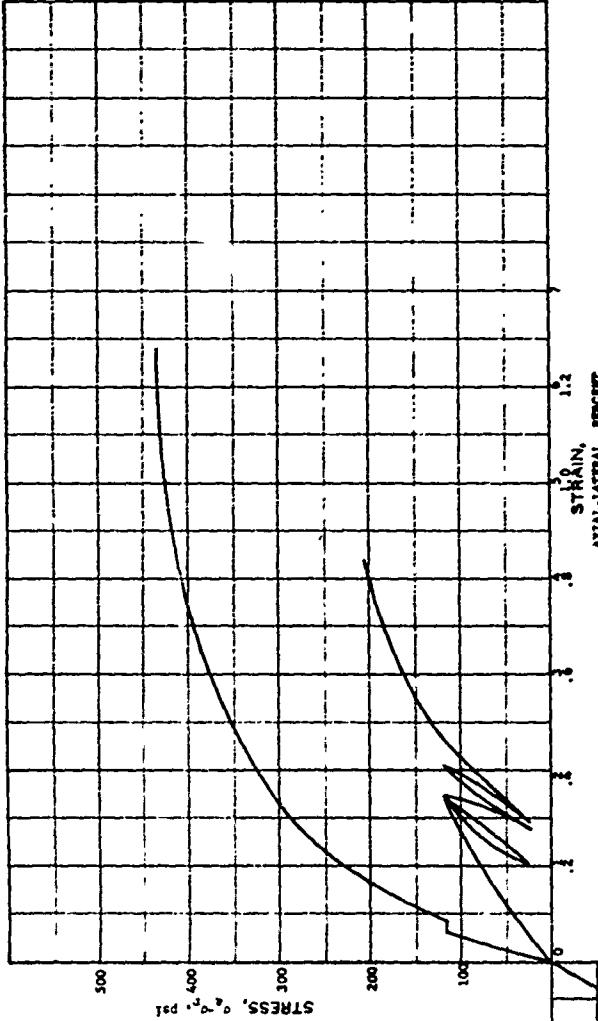
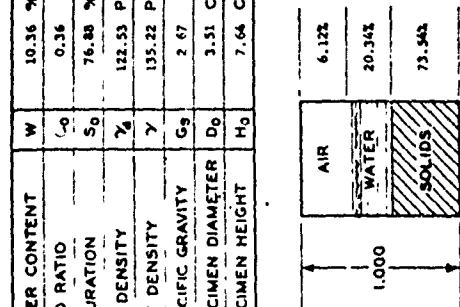
62



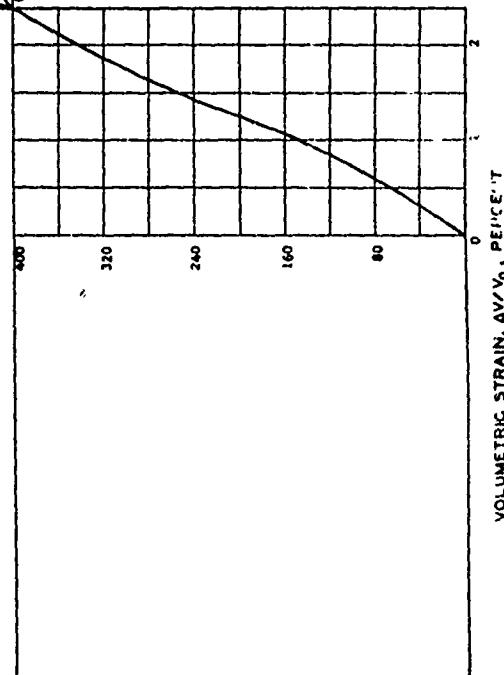
STRAIN:
Axial-Lateral, Percent

PROJECT	Geotech B-6021
Contract No.	DACAS9-67-C-0031
<hr/>	
AREA	
BORING NO.	SAMPLE NO. 136
DEPTH	DATE
EL	
LL	PL 15 PL 12
<hr/>	
DESCRIPTION	McComick Ranch Sand
	Triaxial-Cyclic shear 0.35%

WATER CONTENT	W	10.36 %
VOID RATIO	e _o	0.36
SATURATION	S _o	76.88 %
DRY DENSITY	γ_d	132.53pcf
WET DENSITY	γ	135.22pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _o	3.51 cm
SPECIMEN HEIGHT	H _o	7.64 cm



HYDROSTATIC COMPRESSION PHASE

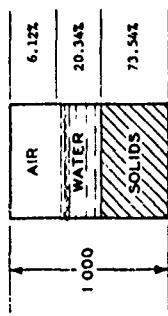


HYDROSTATIC PRESSURE, P_h , PSI

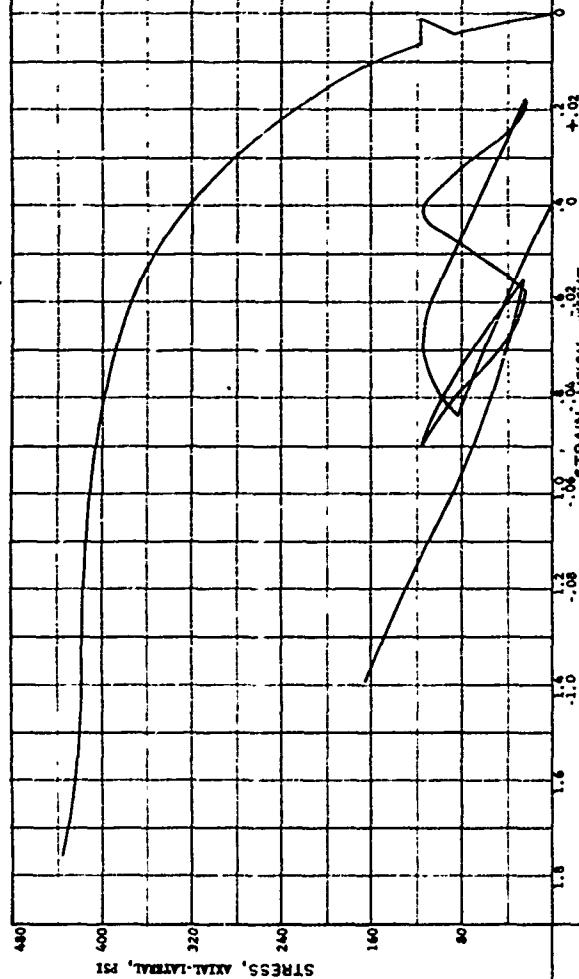
63

PROJECT 64 Test 1:001	
Contract No. DACA39-67-C-0031	
AREA	SAMPLE NO.
	DATE
BORING NO.	PL
DEPTH	19
EL.	12
LL	27
DESCRIPTION McConaugh Ranch Sand	
Triaxial-Cycle Shear Q-35%	

WATER CONTENT	W	10.36 %
VOID RATIO	e_0	0.36
SATURATION	S_o	76.48 %
DRY DENSITY	γ_d	122.53 PCF
WET DENSITY	γ'	135.22 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 CM
SPECIMEN HEIGHT	H_o	7.64 CM



HYDROSTATIC COMPRESSION PHASE



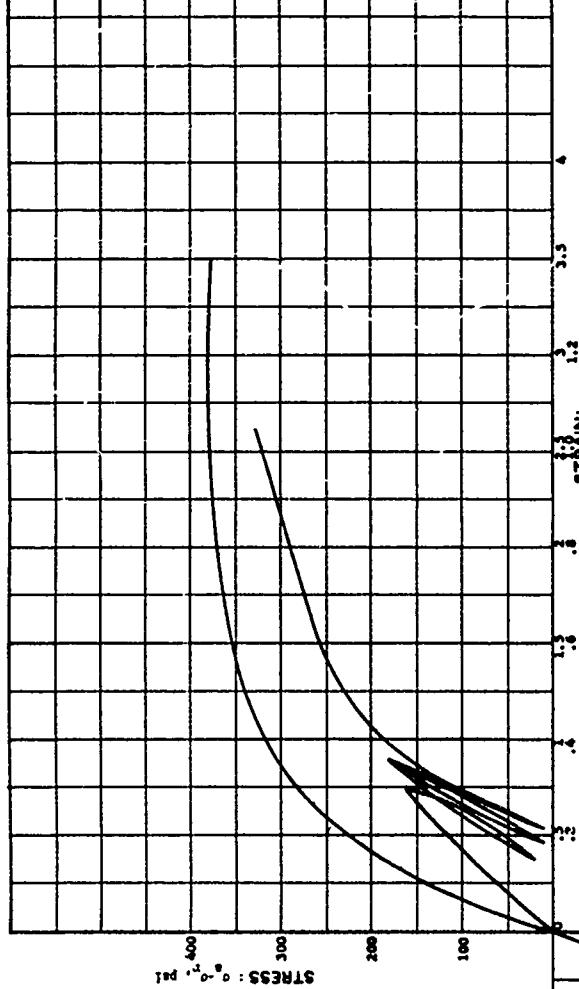
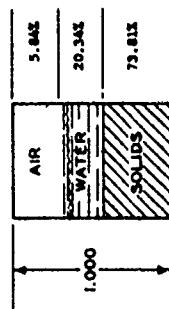
HYDROSTATIC PRESSURE, P, PSI

9

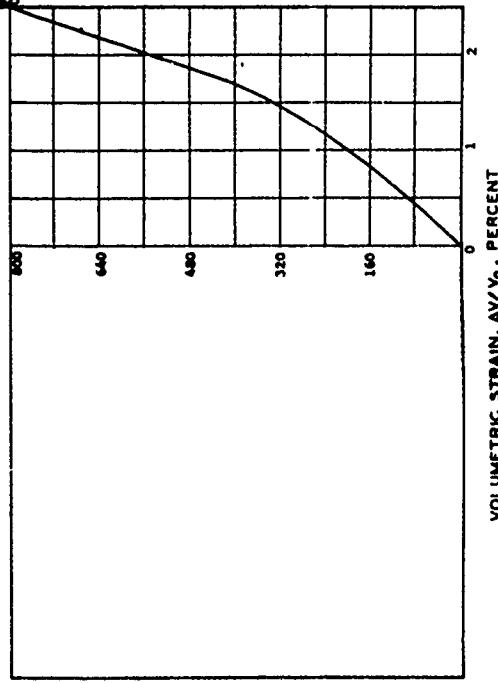
PROJECT	Ga Tech 8-602;
Contract No.	DCR19-67-00031
AREA	
BORING NO.	SAMPLE NO. 137A
DEPTH	DATE
EL.	
LL.	PL
27	15
	P1
	12

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT
Triaxial-Cyclic shear, 3.3%

WATER CONTENT	W	10.32 %
VOID RATIO	e_0	0.35
SATURATION	S_o	77.88 %
DRY DENSITY	γ_d	122.97pcf
WET DENSITY	γ	135.07pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.53 CM
SPECIMEN HEIGHT	H_0	7.47 CM

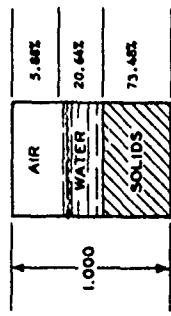


HYDROSTATIC COMPRESSION PHASE

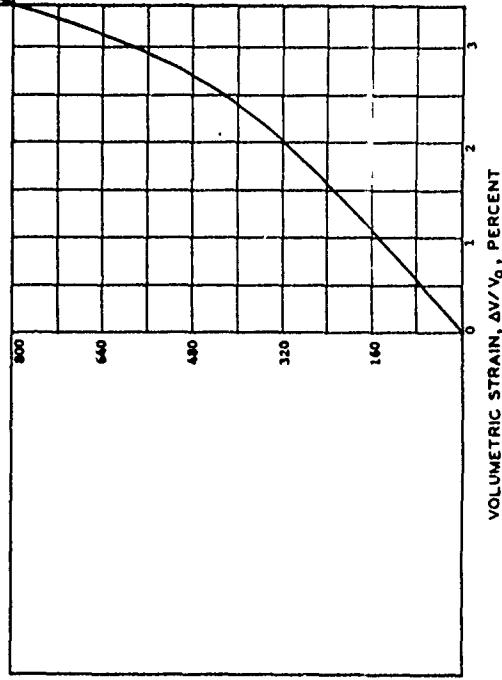


PROJECT	Georgia Institute of Technology 3-602		
Coreface No.	MDA31-67-C-001		
AREA			
BORING NO.	SAMPLE NO. 150		
DEPTH	DATE		
EL	PL	15	PI 12
DESCRIPTION McCormick Ranch Sand			
Triaxial-Cycle Shear @ 35%			

WATER CONTENT	W	10.52	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	77.82	%
DRY DENSITY	γ_d	122.43	pcf
WET DENSITY	γ'	135.31	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.65	cm

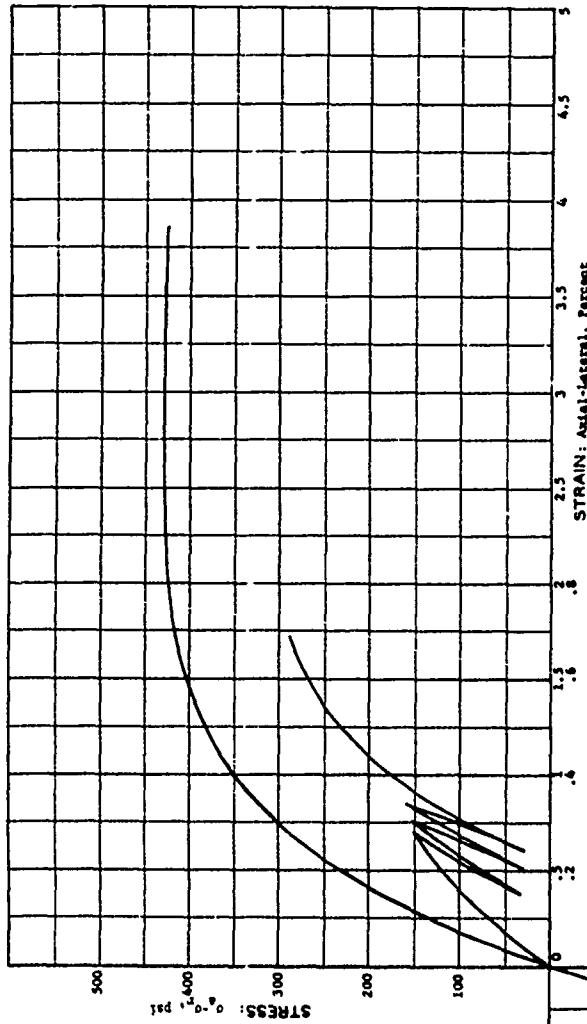


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , Psi

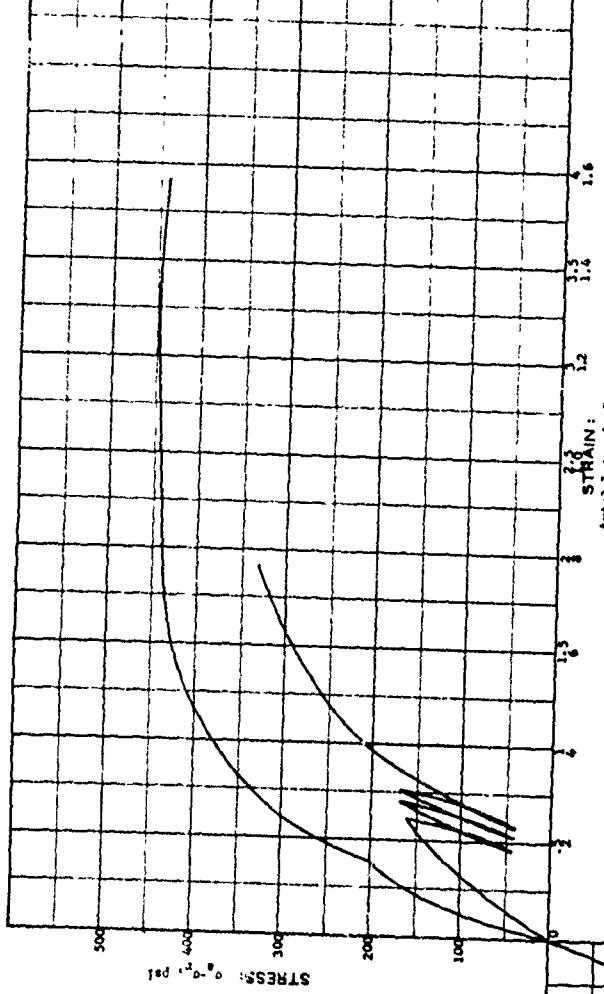
69



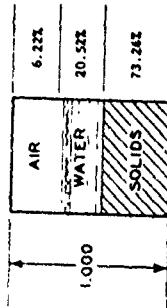
STRAIN: Axial-Lateral, Percent

PROJECT	Georgia Institute of Technology B-602
Contract No.	DA-39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 134
DEPTH	DATE
EL	
LL	PL 15 PI 12
DESCRIPTION McConahie Ranch Sand	
Triaxial-Cycle Shear @ 35%	

WATER CONTENT	W	10.49 %
VOID RATIO	e ₀	0.16
SATURATION	s ₀	76.73 %
DRY DENSITY	γ_d	122.06 PCF
WET DENSITY	γ'	134.86 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.62 CM

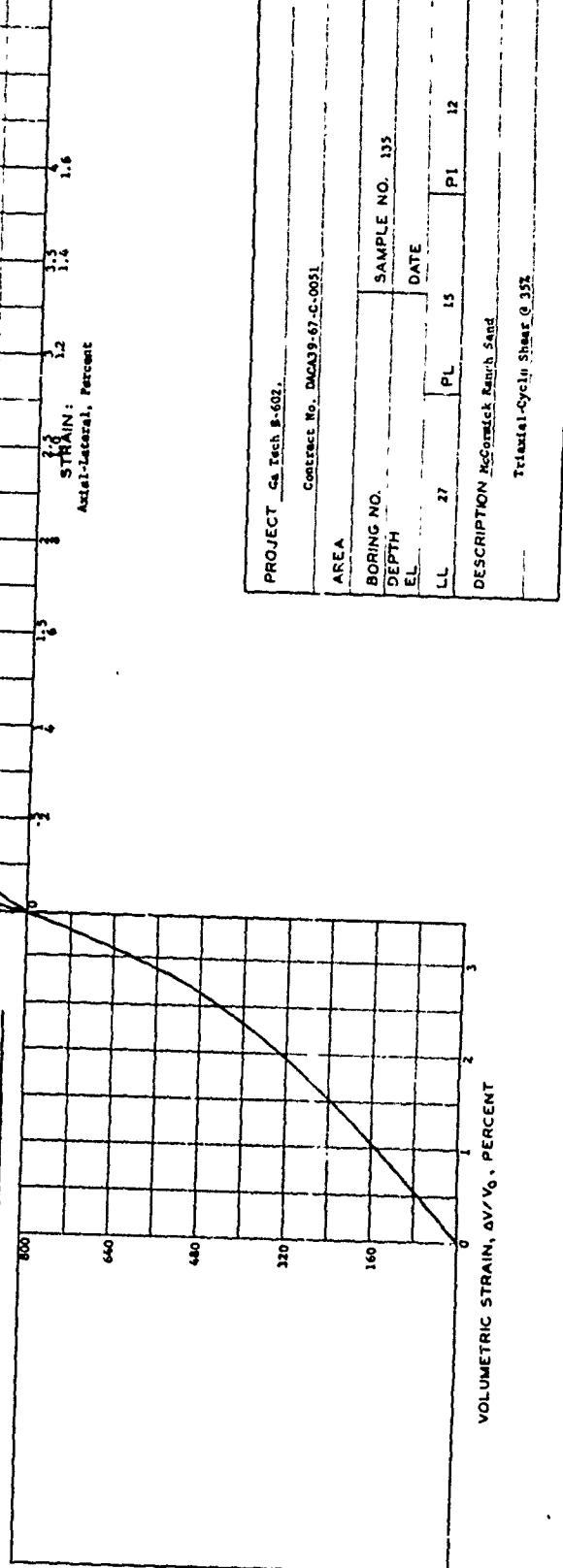


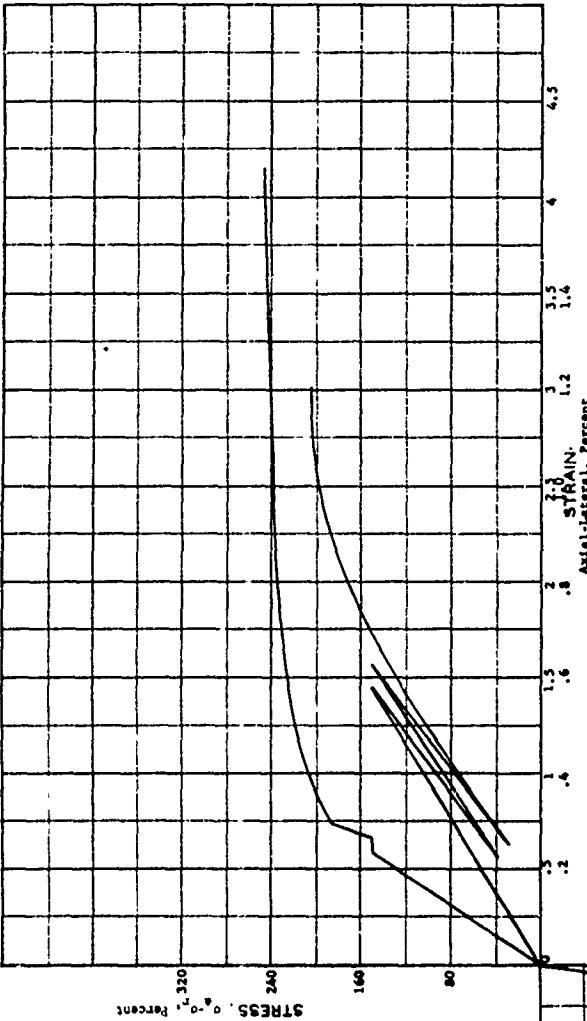
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

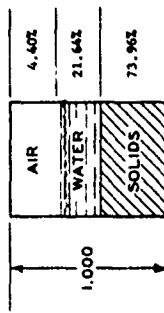
67





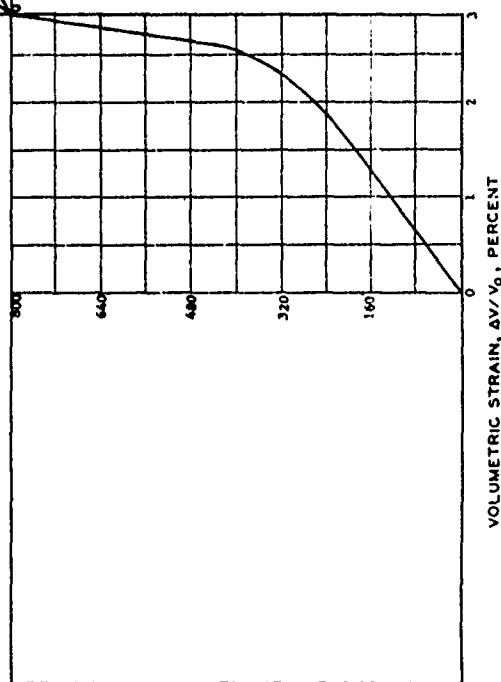
HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	10.96 %
VOID RATIO	e_0	0.35
SATURATION	S_o	93.10 %
DRY DENSITY	γ_d	123.21pcf
WET DENSITY	γ	136.75pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER D_o	3.50 cm	
SPECIMEN HEIGHT H_o	7.52 cm	



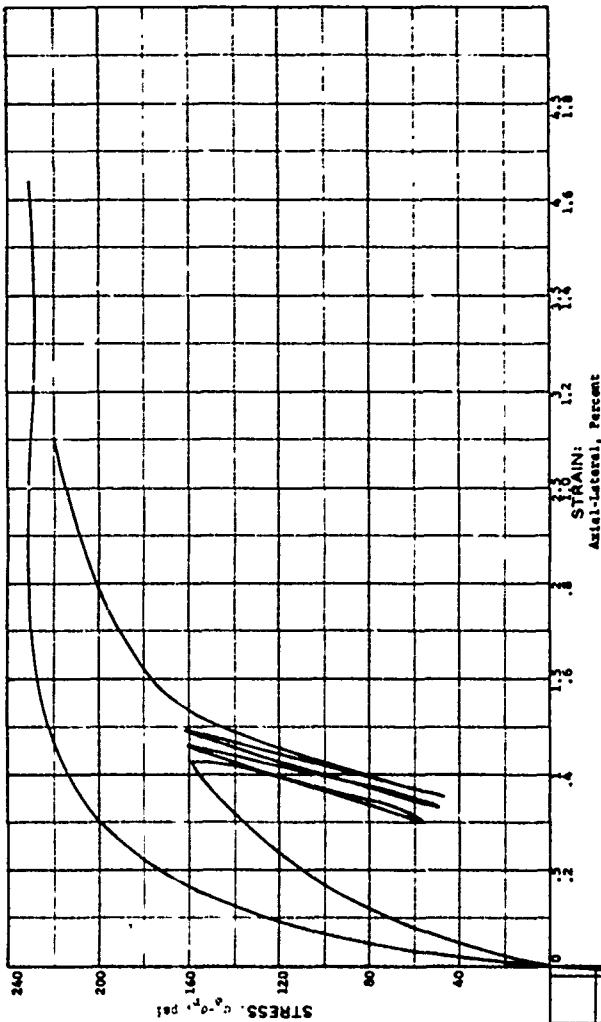
HYDROSTATIC PRESSURE, P, PSI

68

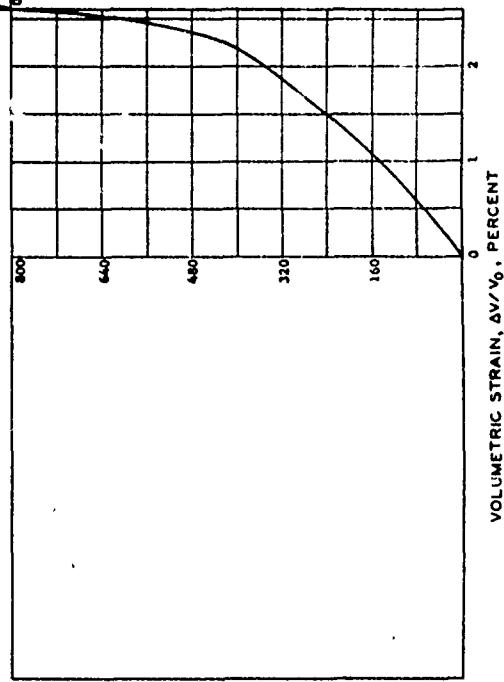


PROJECT	Georgia Institute of Technology B-602		
Contract No.	DOA39-67-C-0051		
AREA			
BORING NO.	SAMPLE NO. 138		
DEPTH	DATE		
EL.	27	PL.	15
LL		P1	12
DESCRIPTION McCollum Ranch Sand			
Tensile-Cycle Shear @ 35%			

WATER CONTENT	W	10.11	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	64.04	%
DRY DENSITY	γ_d	122.15	PCF
WET DENSITY	γ	136.83	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	CM
SPECIMEN HEIGHT	H_o	7.53	CM

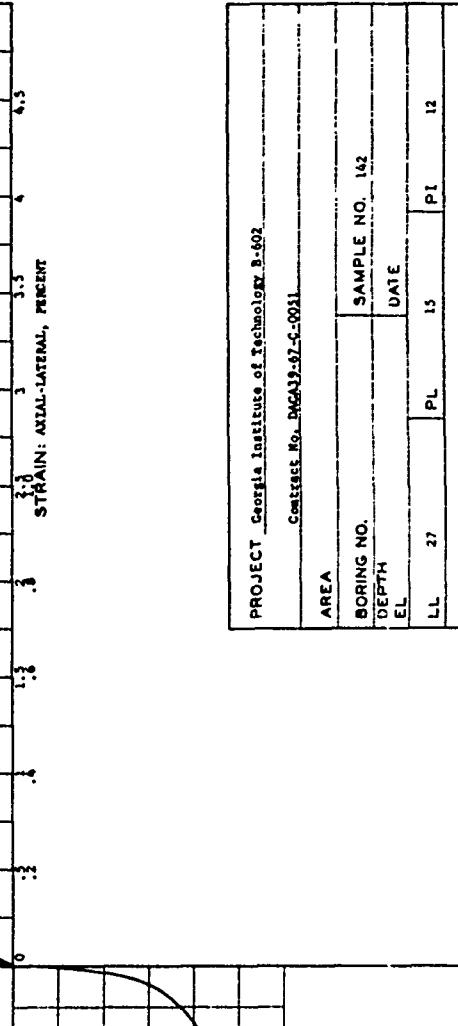
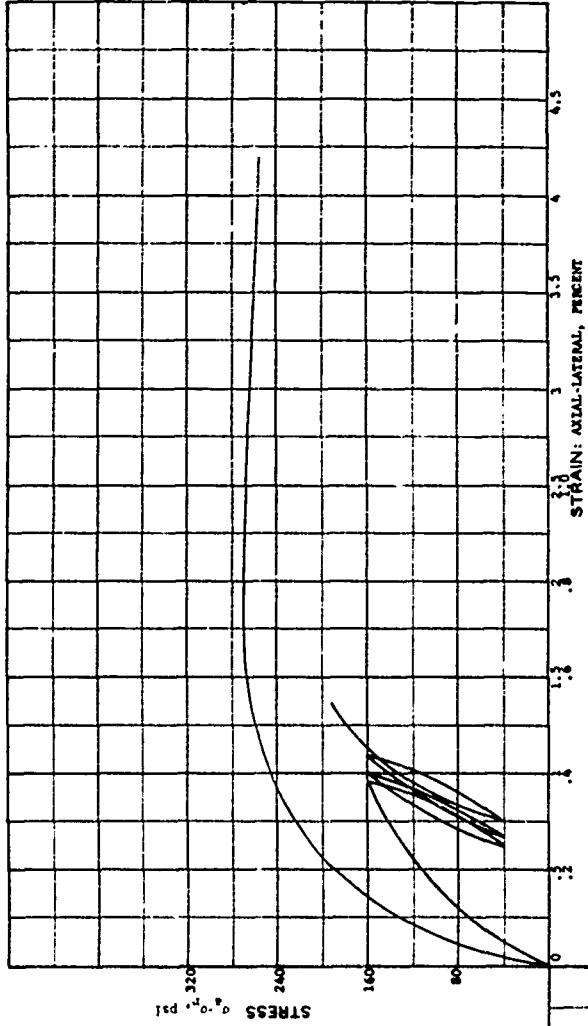


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

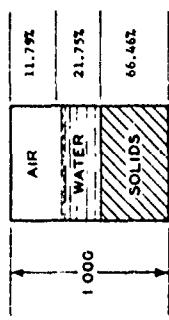
PROJECT	Ga Tech B-6021	SAMPLE NO.	139
Contract No.	DAGA09-07-C-0011	DATE	
AREA		PL	15
BORING NO.		PL	PI
DEPTH			12
EL.	27		
DESCRIPTION	McCorckle Ranch Sand		
	Triaxial-Cycle Shear @ 35%		



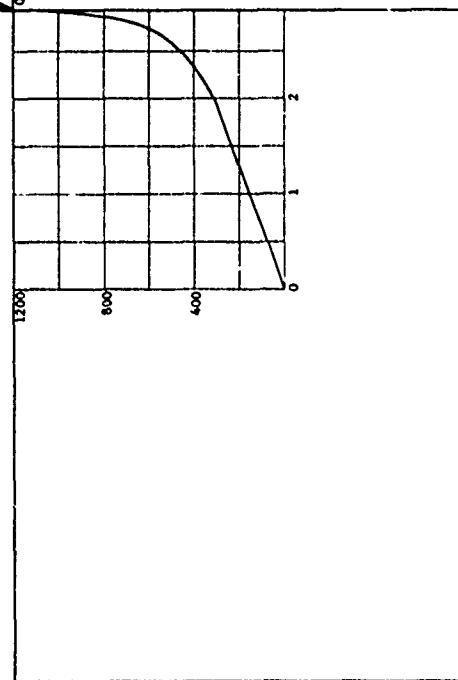
PROJECT Georgia Institute of Technology B-902	
Contract No. FMSA-19-07-C-0011	
AREA	
DORING NO.	SAMPLE NO. 162
DEPTH EL	DATE
L.L. 27	PL 15 P1 12

DESCRIPTION McCordick Branch Sand
Triaxial-Cycle Shear Q-35%

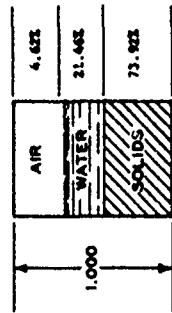
WATER CONTENT	W	12.26 %
VOID RATIO	e ₀	0.50
SATURATION	s ₀	64.85 %
DRY DENSITY	γ_d	110.73 PCF
WET DENSITY	γ	124.30 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.55 CM



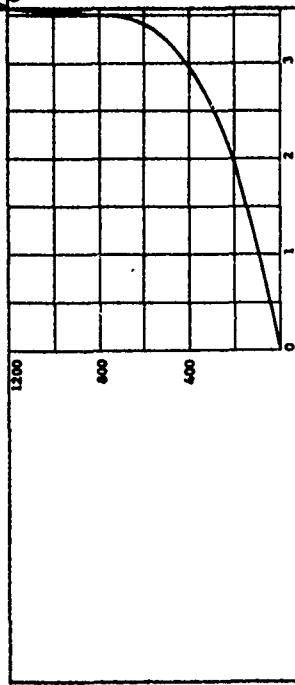
HYDROSTATIC COMPRESSION PHASE



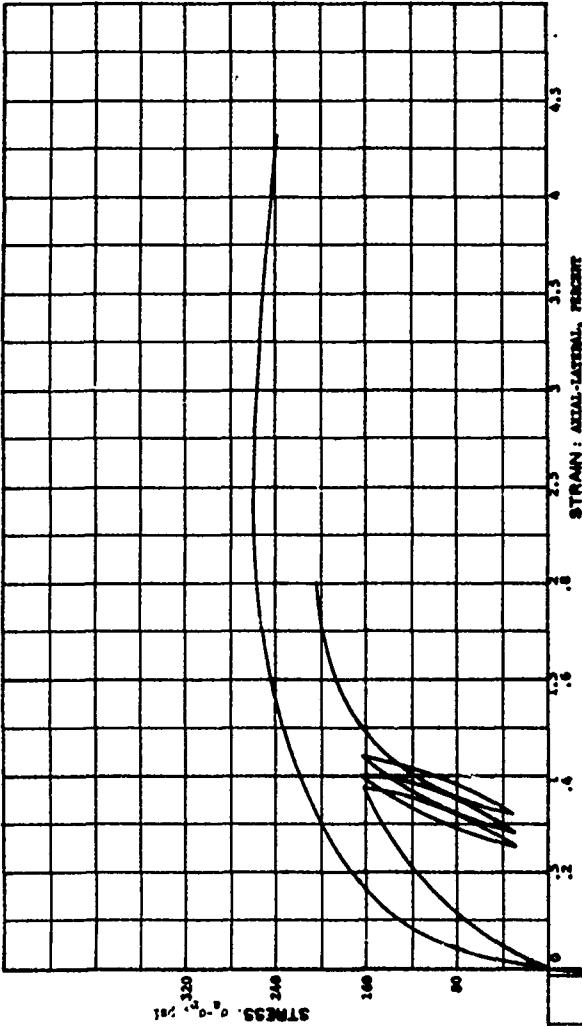
WATER CONTENT	W	10.67 %
VOID RATIO	e _o	0.35
SATURATION	S _o	82.29 %
DRY DENSITY	γ_d	123.16 PCF
WET DENSITY	γ	136.55 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _o	= 40 CM
SPECIMEN HEIGHT	H _o	7.54 C.I.D



HYDROSTATIC COMPRESSION PHASE

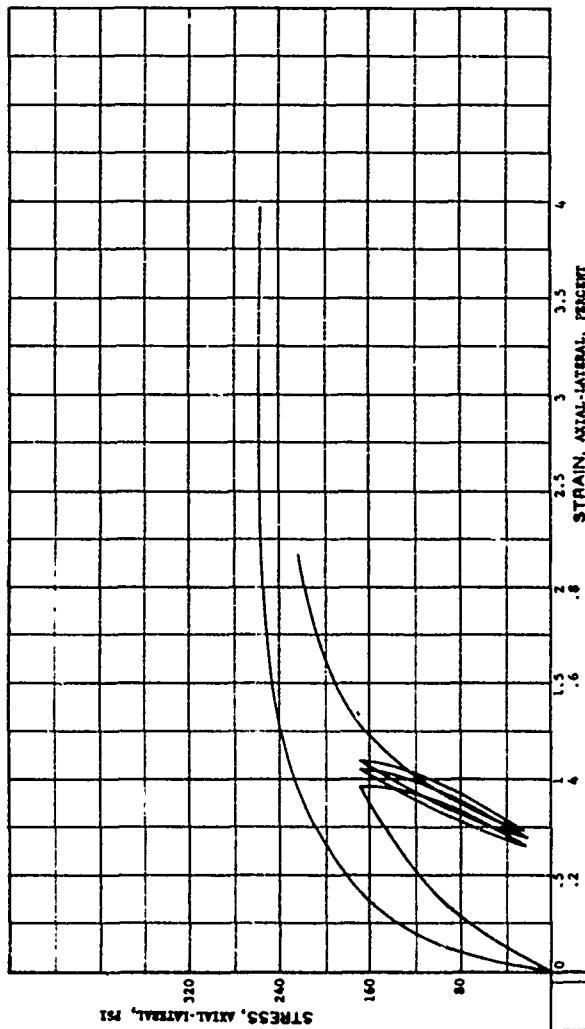


HYDROSTATIC PRESSURE, P, PSI

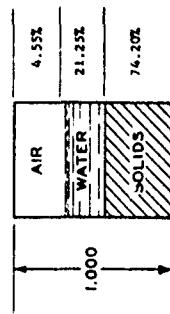


PROJECT Georgia Institute of Technology B-602	
Contract No. DA-39-67-0-0001	
AREA	
BORING NO.	SAMPLE NO. 103
DEPTH EL.	DATE
LL 27	PL 15 PI 12
DESCRIPTION Hordenick Ranch Sand	
Initial Cycle Stress 0.25%	

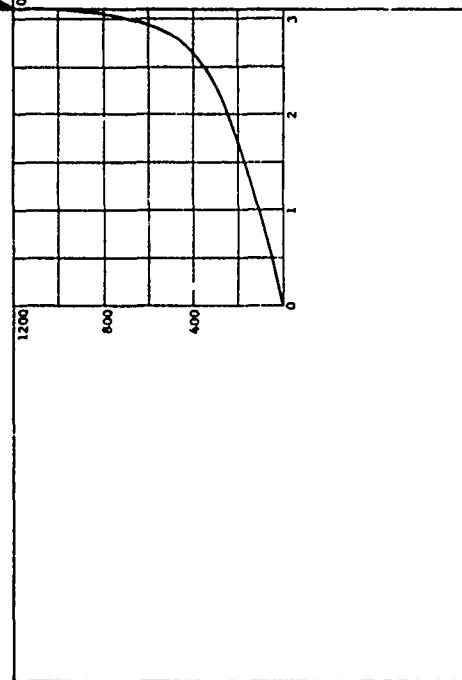
VOLMETRIC STRAIN, $\Delta V/V_0$, PERCENT



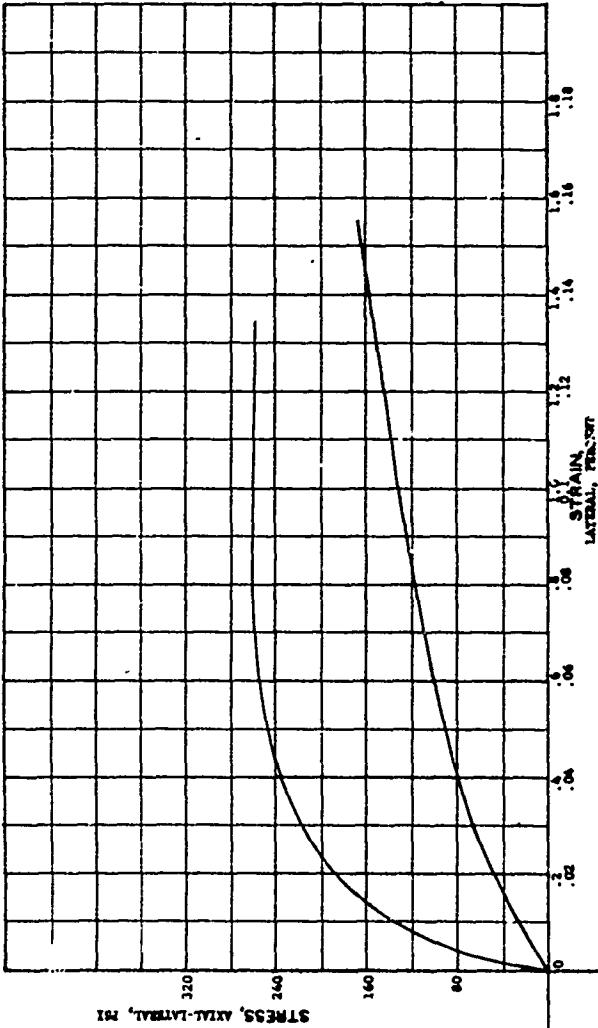
WATER CONTENT	W	10.72 %
VOID RATIO	e_0	0.3
SATURATION	S_c	82.35 %
DRY DENSITY	γ_d	123.62pcf
WET DENSITY	γ	136.86pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.50 cm
SPECIMEN HEIGHT	H_0	7.53 cm



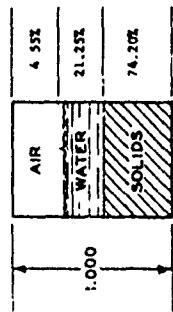
HYDROSTATIC COMPRESSION PHASE



PROJECT	Georgia Institute of Technology, B-502	
Contract No. DACA39-67-C-0031		
AREA		
BORING NO	SAMPLE NO. 149	
DEPTH EL	DATE	
LL	PL	LS
		PI
		12
DESCRIPTION <u>McGinnick Beach Sand</u>		
Triaxial Cyclic @ 3%		
Lateral Pressure, 1200 psi		



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

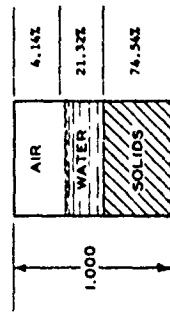
73

WATER CONTENT	W	10.72	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	82.35	%
DRY DENSITY	γ_d	123.62	pcf
WET DENSITY	γ'	136.88	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.53	cm

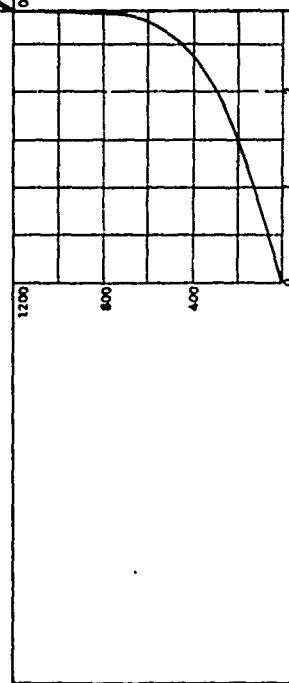
PROJECT	Georgia Institute of Technology R-602
Contract No.	DMPA39-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 149
DEPTH EL.	DATE
LL	PL
	15
	P1
	12
DESCRIPTION	
McComick Ranch Sand	
Triaxial Cyclic @ 35%	
Lateral Pressure, 1200 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

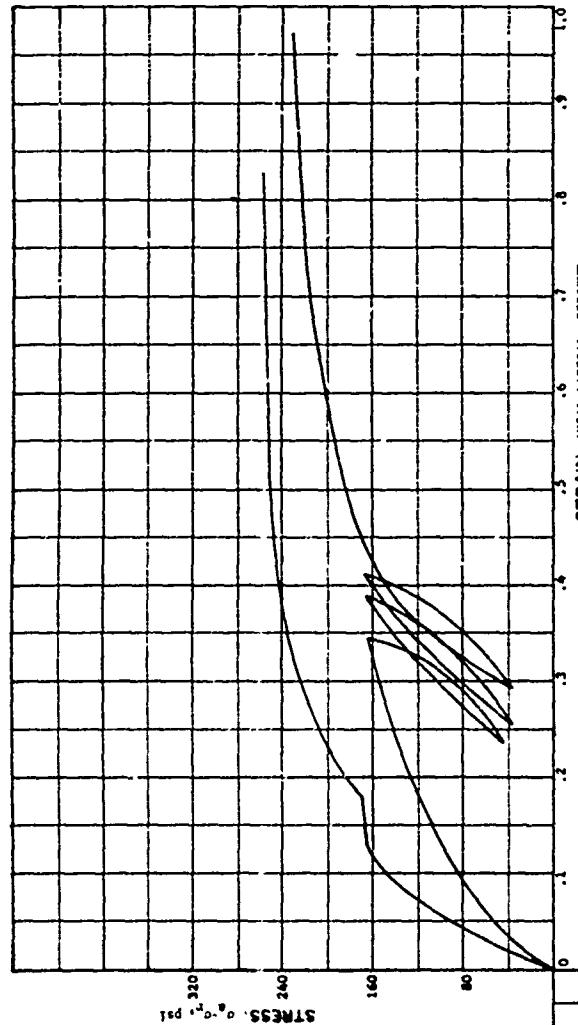
WATER CONTENT	W	10.71	%
VOID RATIO	e_0	0.34	
SATURATION	S_0	83.75	%
DRY DENSITY	γ_d	124.19	pcf
WET DENSITY	γ_w	137.50	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.56	cm



HYDROSTATIC COMPRESSION PHASE



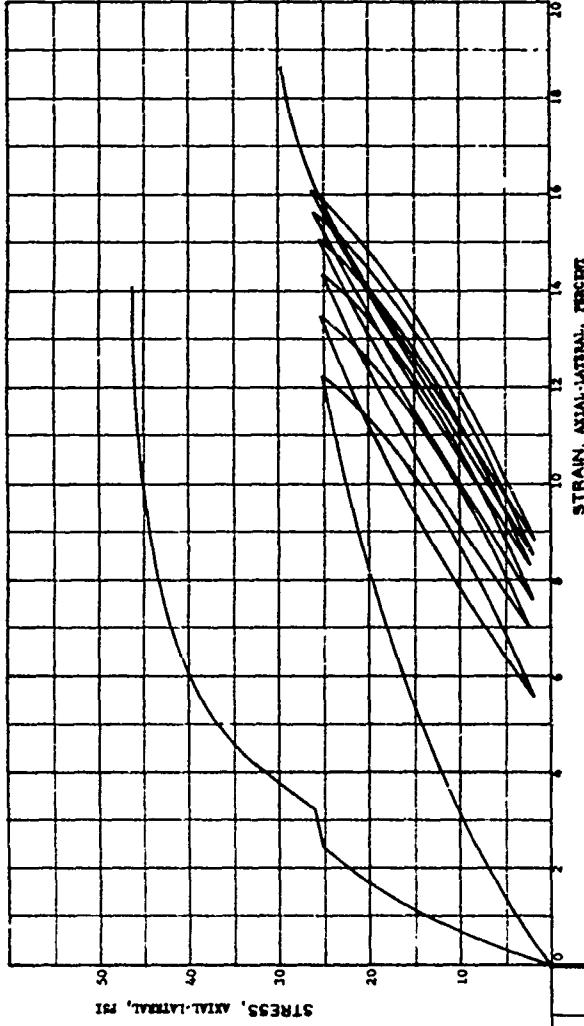
HYDROSTATIC PRESSURE, P, PSI



PROJECT: Georgia Institute of Technology, B-692					
Contract No. DACA39-67-C-0051					
AREA	SAMPLE NO. 130				
	DEPTH EL.	DATE			
LL	27	PL	15	PL	12
DESCRIPTION: McCormick Branch sand					
Triaxial-Cyclic Shear Q-25%					

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.53 %
VOID RATIO	e ₀	0.36
SATURATION	S _o	82.75 %
DRY DENSITY	γ _d	126.35 PCF
WET DENSITY	γ	137.44 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.56 CM
SPECIMEN HEIGHT	H ₀	7.53 CM

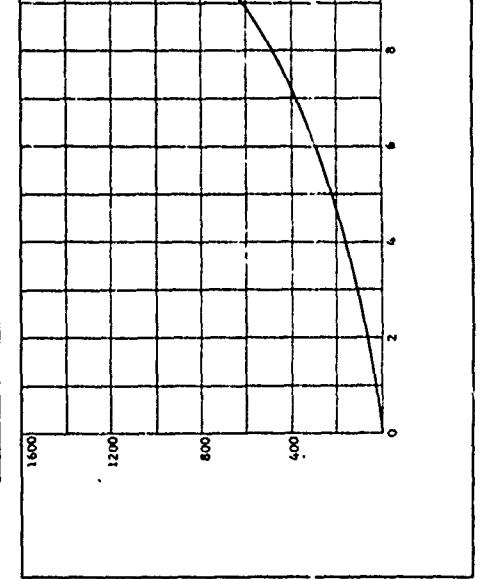


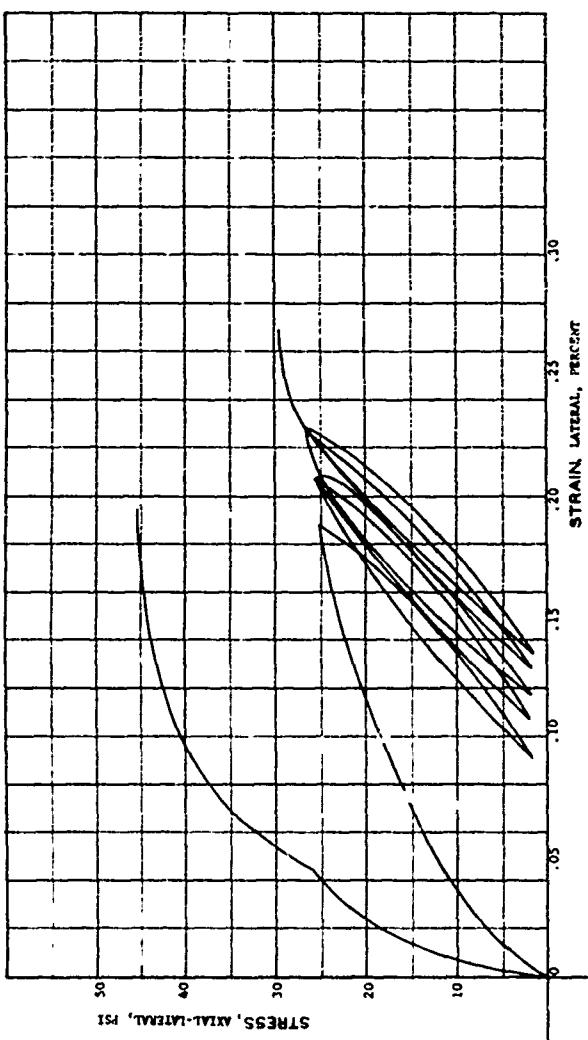
PROJECT	Geotechnical Test Laboratory 1-502
Contract No.	DAC39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 100
DEPTH	DATE
EL.	
LL.	PL
	15
	P1
	12

DESCRIPTION McCormick Ranch Sand

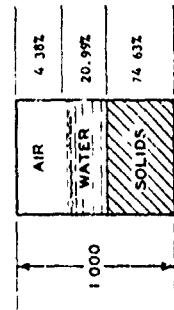
Triaxial Cyclic @ 3%

Lateral Pressure, 200 psi





WATER CONTENT	W	10.53	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	62.75	%
DRY DENSITY	γ_d	124.35	pcf
WET DENSITY	γ_w	137.44	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.56	cm
SPECIMEN HEIGHT	H_o	7.53	cm



HYDROSTATIC COMPRESSION PHASE

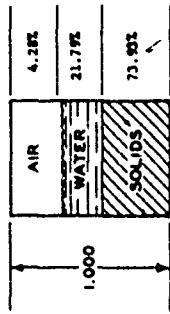
HYDROSTATIC PRESSURE, P, PSI

76

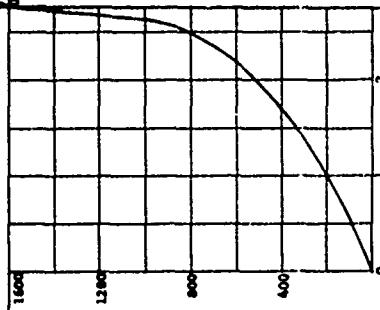
PROJECT Georgia Institute of Technology B-602	Contract No. DACA39-93-C-0031
AREA	
BORING NO.	SAMPLE NO. 100
DEPTH EL	DATE
LL 27	PL 15
	P1 12
DESCRIPTION MComet Ranch, Sand	
Triaxial Cyclic 0.35%	
Lateral Pressure, 200 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

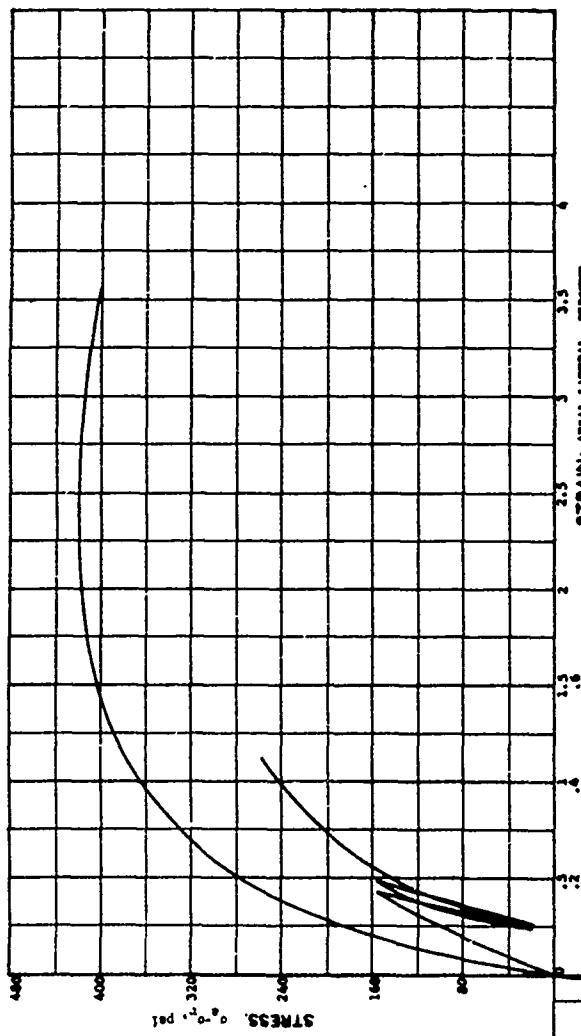
WATER CONTENT	W	11.04	%
VOID RATIO	e ₀	0.35	
SATURATION	s ₀	63.58	%
DRY DENSITY	γ_d	123.17	pcf
WET DENSITY	γ'	136.77	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.51	cm
SPECIMEN HEIGHT	H ₀	7.44	cm



HYDROSTATIC COMPRESSION PHASE



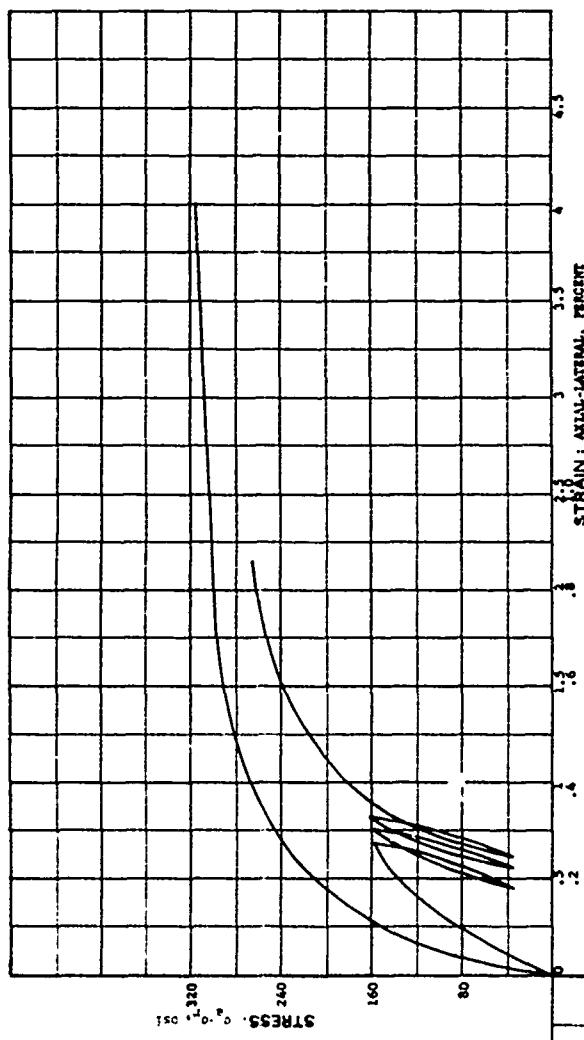
HYDROSTATIC PRESSURE, P, PSI



STRESS, σ_0 , psi
STRAIN, ϵ_0 , PERCENT

PROJECT Georgia Institute of Technology 9-602	
Contract No. DACA19-67-C-0031	
AREA	SAMPLE NO. 125
BORING NO.	DATE
DEPTH EL.	
LL 27	PL 15
	P ₁ 12
DESCRIPTION	McGinnis Ranch Sand
	Triaxial-Cyclic Shear G-352

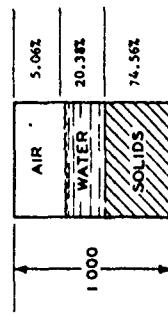
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



1.30
1.20
1.10
1.00

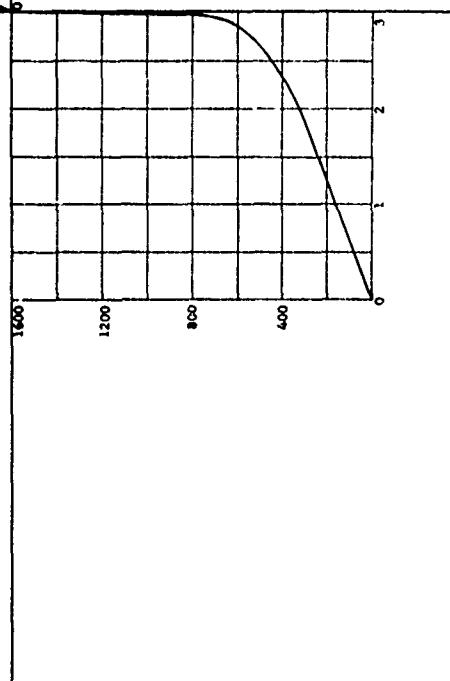
HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	10.24	%
VOID RATIO	e_0	0.34	
SATURATION	S_o	80.11	%
DRY DENSITY	γ_d	126.23	pcf
WET DENS. "Y"	γ	136.94	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.55	cm



HYDROSTATIC PRESSURE, P, PSI

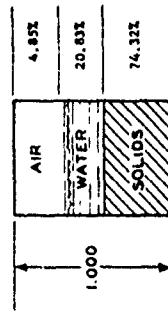
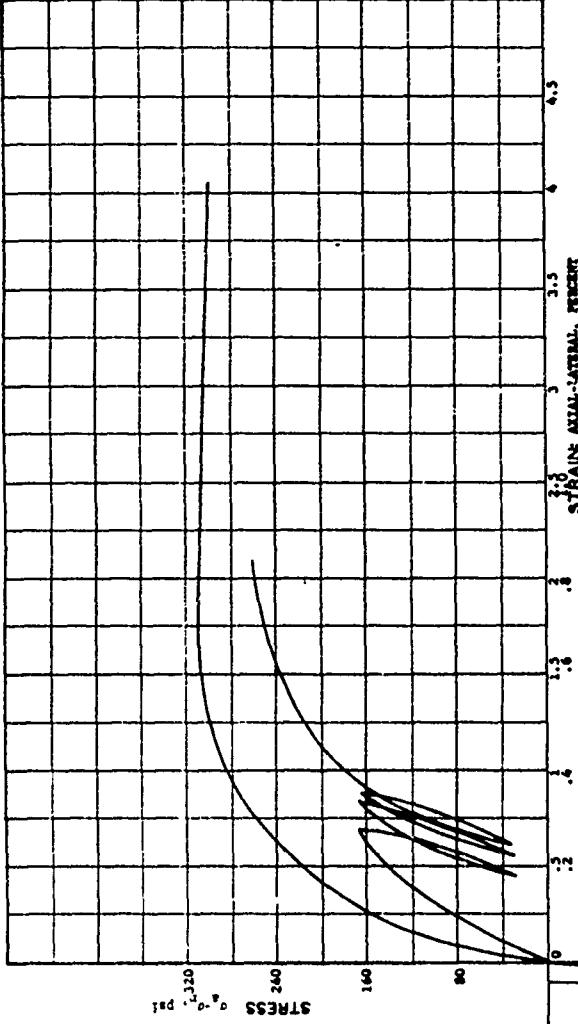
78



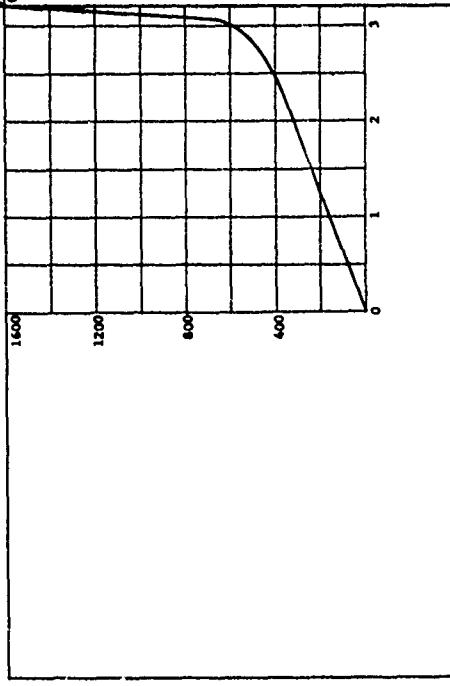
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Georgia Institute of Technology 8-402	
Contract No.	DACAR9-67-G-0051	
AREA		
BORING NO.	SAMPLE NO. 192	
DEPTH EL	DATE	
LL 27	PL 15	P1 12
DESCRIPTION McColloch Ranch Sand		
Triaxial-Cyclic Shear @ 35%		

WATER CONTENT	W	10.50 %
VOID RATIO	e_0	0.35
SATURATION	S_o	81.10 %
DRY DENSITY	γ_d	121.82pcf
WET DENSITY	γ	136.81pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 cm
SPECIMEN HEIGHT	H_o	7.53 cm

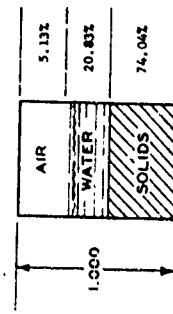
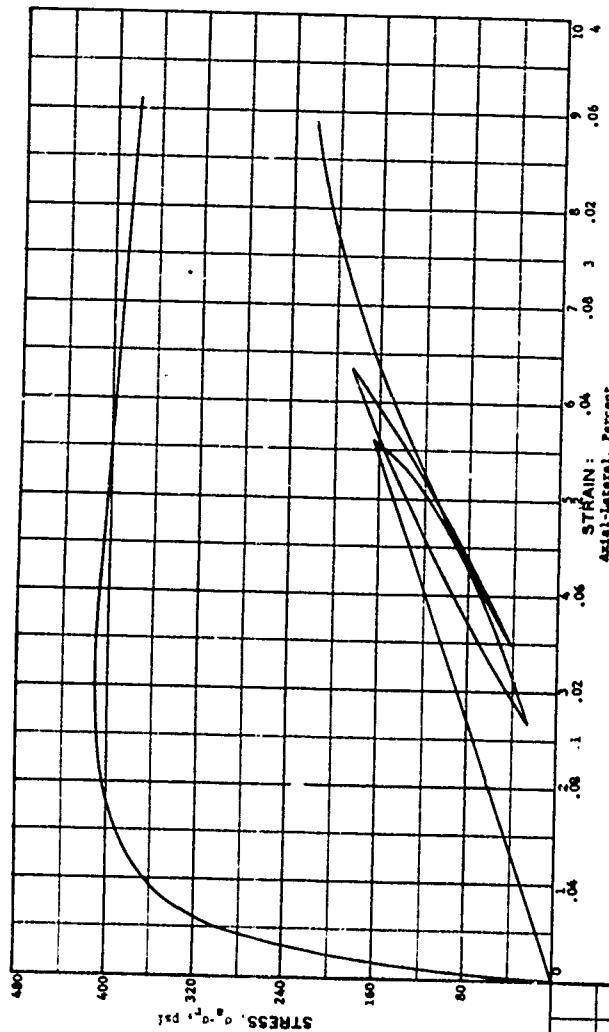


HYDROSTATIC COMPRESSION PHASE

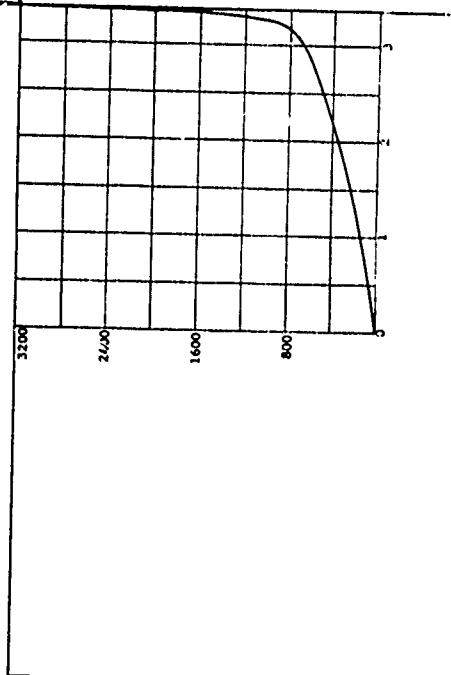


PROJECT Georgia Institute of Technology B-402		
Contract No. DMAE39-67-C-0031		
AREA		
BORING NO.	SAMPLE NO. 154	DATE
DEPTH EL		
LL 27	PL 15	P1 12
DESCRIPTION Motorcoach Ranch Stand		
Trashed-Sieve Sieve 0.25%		

WATER CONTENT	W	10.53 %
VOID RATIO	e_0	0.35
SATURATION	S_o	80.22 %
DRY DENSITY	γ_d	123.35 PCF
WET DENSITY	γ_w	136.35 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 CM
SPECIMEN HEIGHT	H_o	7.46 CM



HYDROSTATIC COMPRESSION PHASE



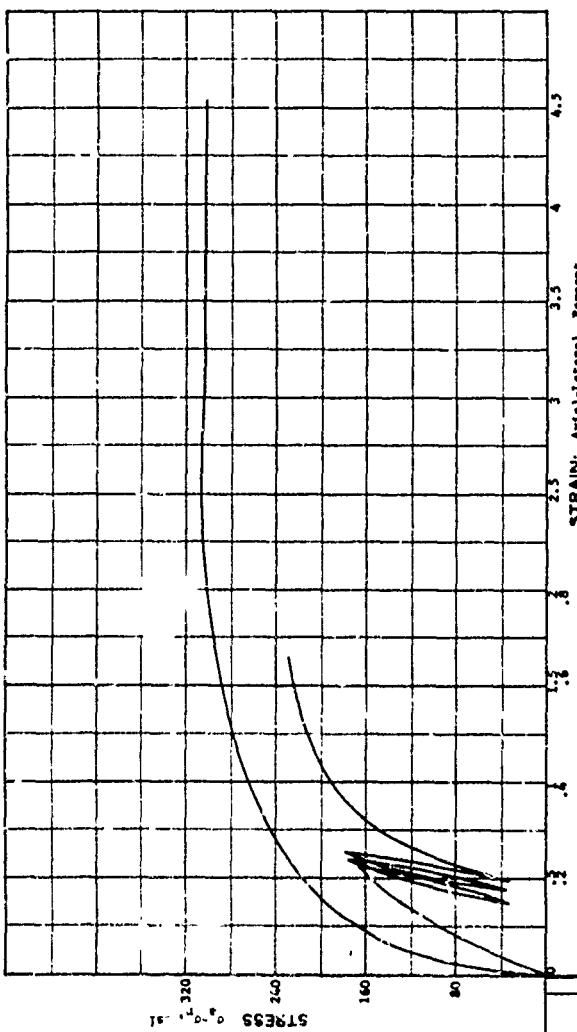
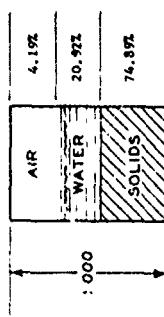
HYDROSTATIC PRESSURE, P, PSI

80

PROJECT Georgia Institute of Technology 1-692		
Contract No. DACA39-67-C-0051		
AREA		
BORING NO.	SAMPLE NO. 129	
EL.	DATE	
L.L.	PL 15	PL 12
DESCRIPTION McCordick Ranch Sand		
Triaxial-Single Shear 0.35%		

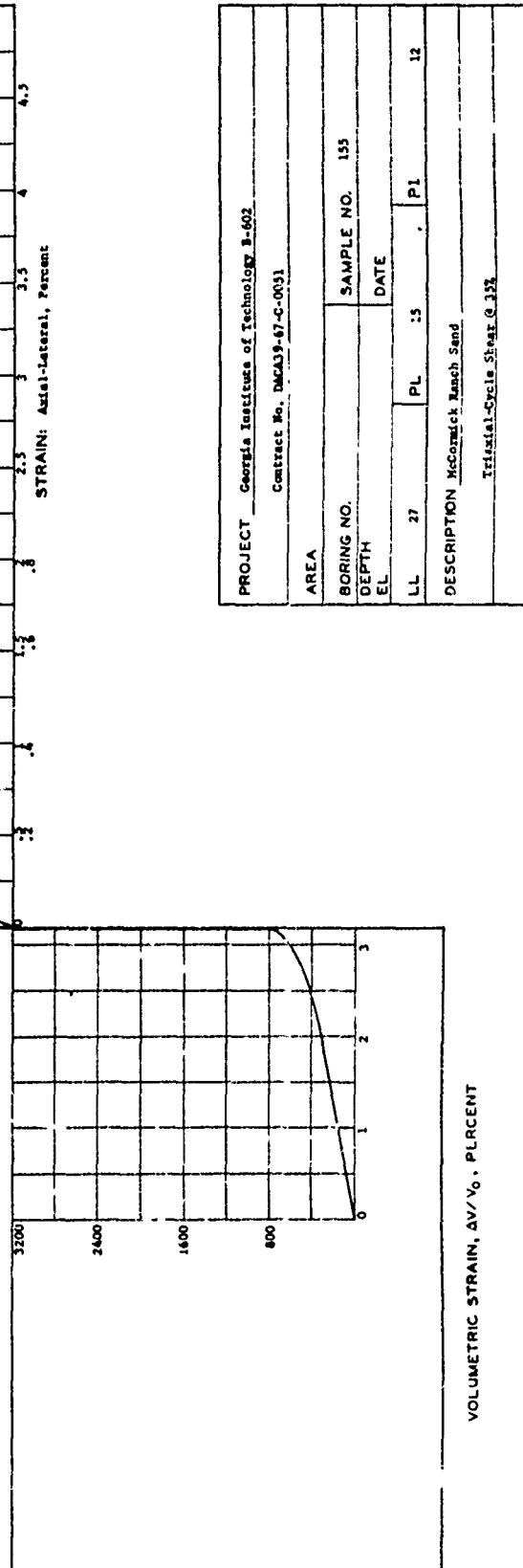
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.46 %
VOID RATIO	e _o	0.26
SATURATION	S _o	83.33 %
DRY DENSITY	γ_d	174.78pcf
WET DENSITY	γ_w	137.83pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _o	3.50 cm
SPECIMEN HEIGHT	H _o	7 cm

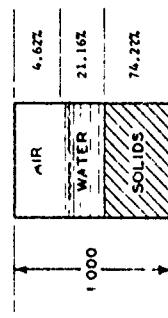


HYDROSTATIC PRESSURE, P, PSI

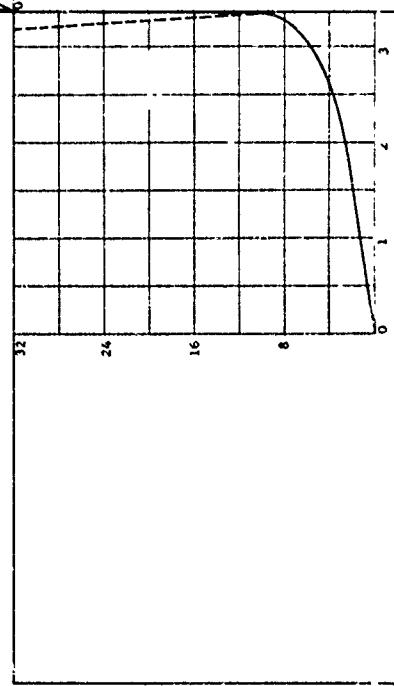
81



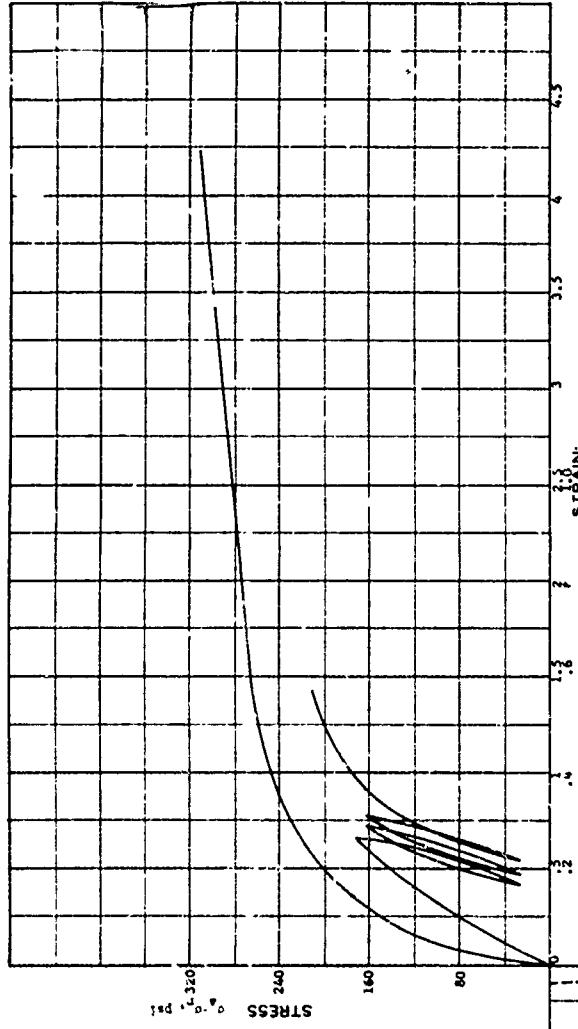
WATER CONTENT	W	10.67 %
VOID RATIO	e ₀	0.35
SATURATION	S _o	82.06 %
DRY DENSITY	γ_d	123.66 PCF
NET DENSITY	γ'	136.86 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.53 CM



HYDROSTATIC COMPRESSION PHASE



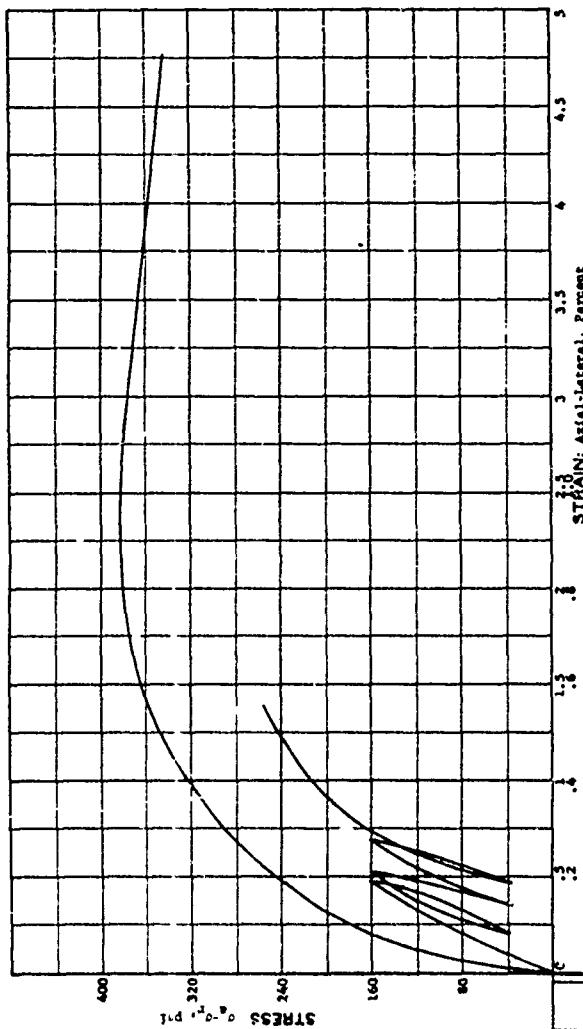
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT
HYDROSTATIC PRESSURE, P, PSI



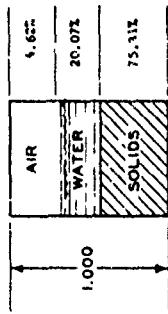
STRAIN: $\frac{\Delta L}{L_0}$

dia-lateral, Percent

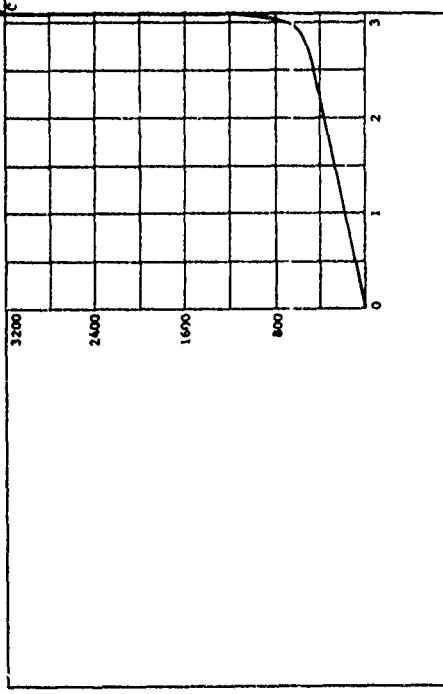
PROJECT	Georgia Institute of Technology B-602		
Contract No. DACA39-67-C-0031			
AREA			
BORING NO.	SAMPLE NO.	DATE	
DEPTH EL.			
LL	27	PL	15
		PI	12
DESCRIPTION McCrack Ranch Sand			
Triaxial-Cyclic Shear @ 35%			



WATER CONTENT	w	9.38 %
VOID RATIO	e ₀	0.33
SATURATION	S _o	81.26 %
DRY DENSITY	γ_d	125.47 PCF
WET DENSITY	γ'	137.39 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.52 CM



HYDROSTATIC COMPRESSION PHASE



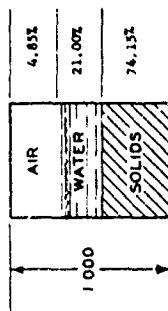
80
80

HYDROSTATIC PRESSURE, P, PSI

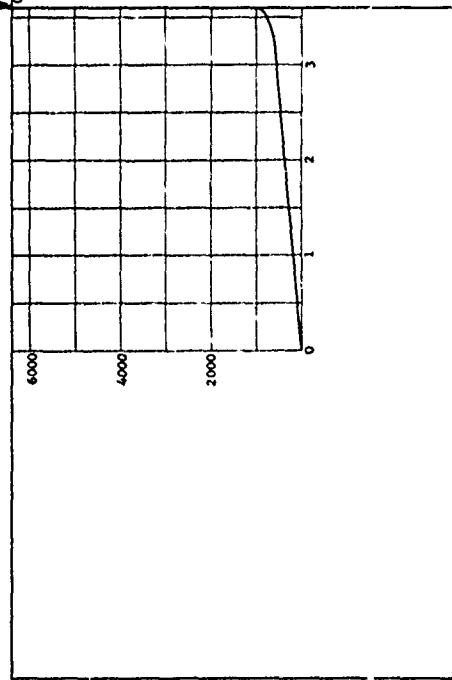
PROJECT Georgia Institute of Technology B-602	
Contract No. DAAG39-67-C-0051	
AREA	
BORING NO	SAMPLE NO. 160
DEPTH	DATE
EL.	
LL. 27	PL. 15
	P1 12
DESCRIPTION McCormick Ranch Sand	
Plastic-Cyclic Shear @ 35%	

VOLMETRIC STRAIN, AV/V0, PERCENT

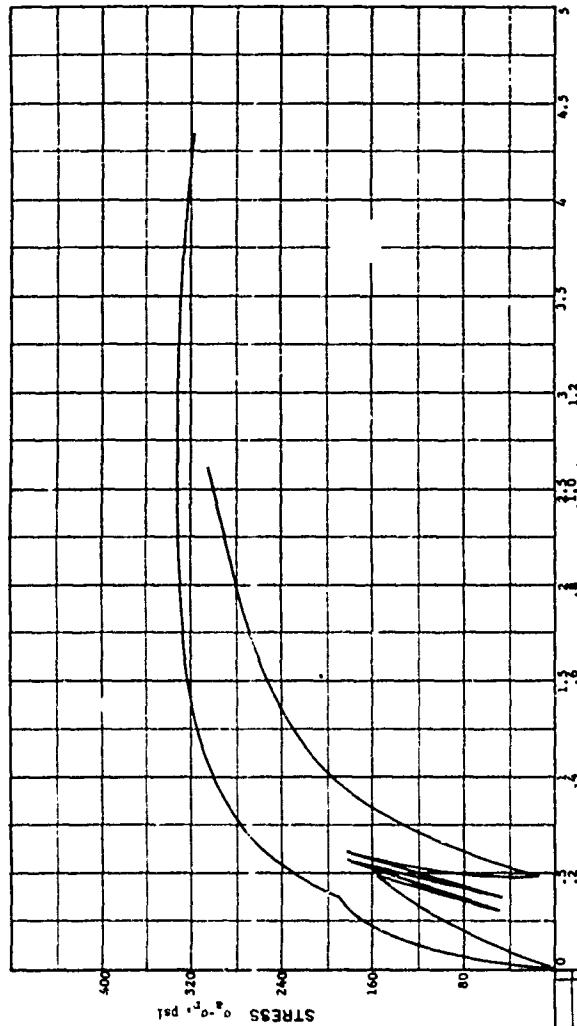
WATER CONTENT	W	10.60 %
VOID RATIO	e_0	0.35
SATURATION	S_o	81.22 %
DRY DENSITY	γ_d	123.34 PCF
WET DENSITY	γ	136.64 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.53 CM



HYDROSTATIC COMPRESSION PHASE

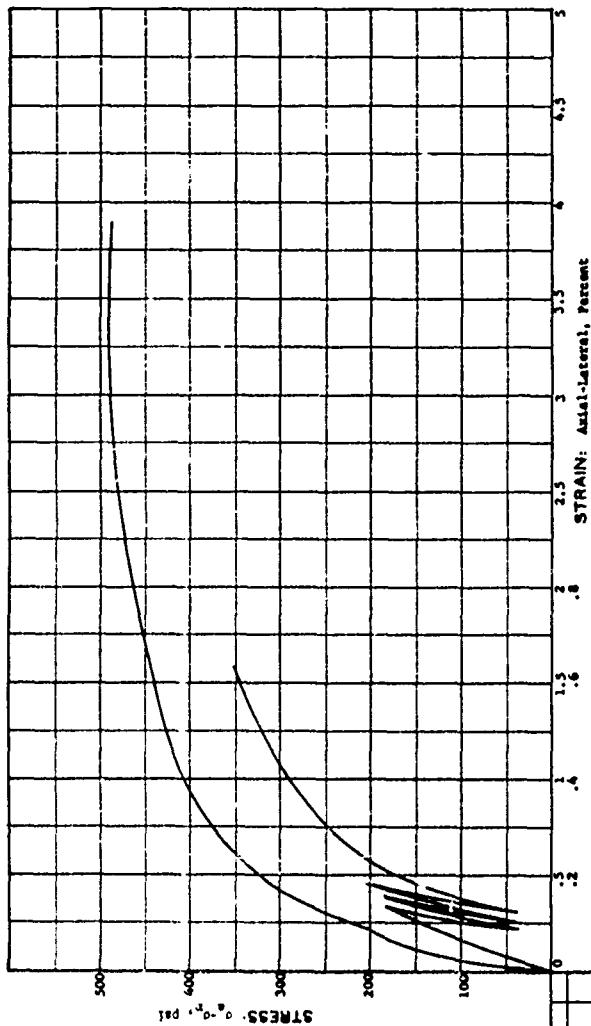


18

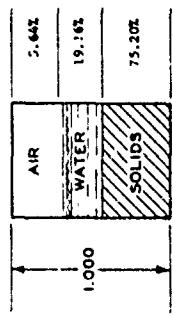


PROJECT	Georgia Institute of Technology 8-602
Contract No.	DACAL9-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 172
DEPTH	DATE
EL	
LL	PL 15 PI 12
DESCRIPTION McCormick Ranch Sand	
TESTED CYCLE SHEAR 0.15%	

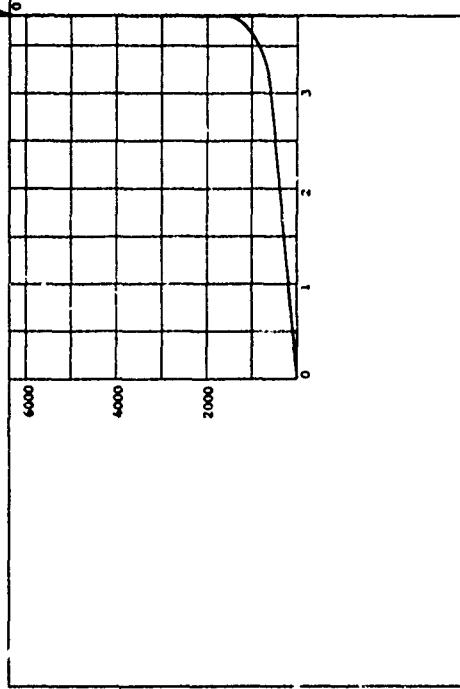
M.C.



WATER CONTENT	W	9.54 %
VOID RATIO	e ₀	0.33
SATURATION	S ₀	77.25 %
DRY DENSITY	γ_d	125.29 P.C.F.
WET DENSITY	γ	137.25 P.C.F.
- - - GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.53 CM



HYDROSTATIC COMPRESSION PHASE



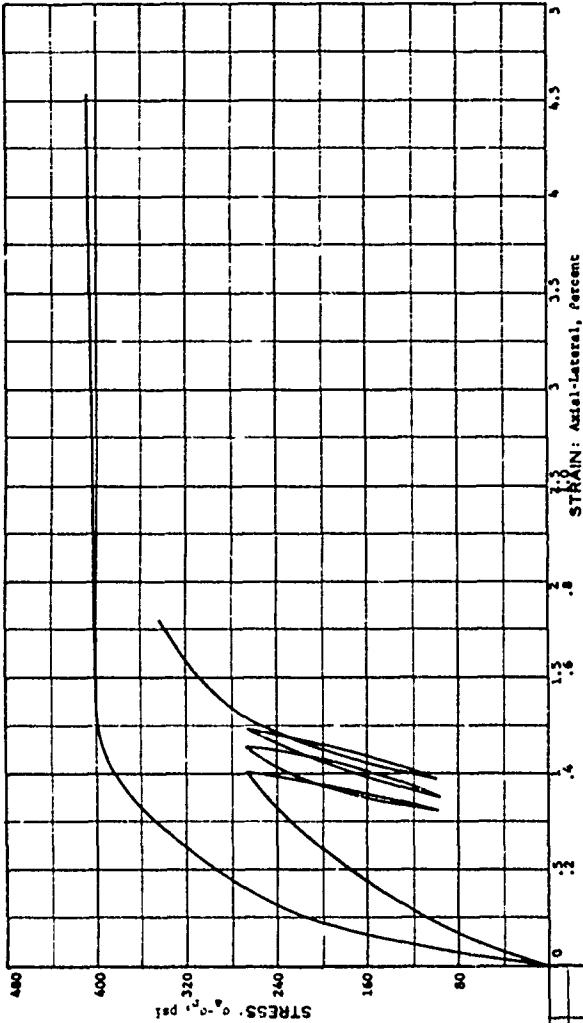
HYDROSTATIC PRESSURE, P, P.S.I.

85

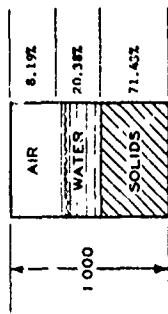
PROJECT		Georgie Institute of Technology-B-402	
Contract No. DA-CA-39-67-C-0051			
AREA			
BORING NO.	DEPTH EL.	SAMPLE NO.	DATE
LL	27	PL 15	P1 12
DESCRIPTION	McComb L. Job Sand		
	Initial-Cycle Shear @ 35%		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

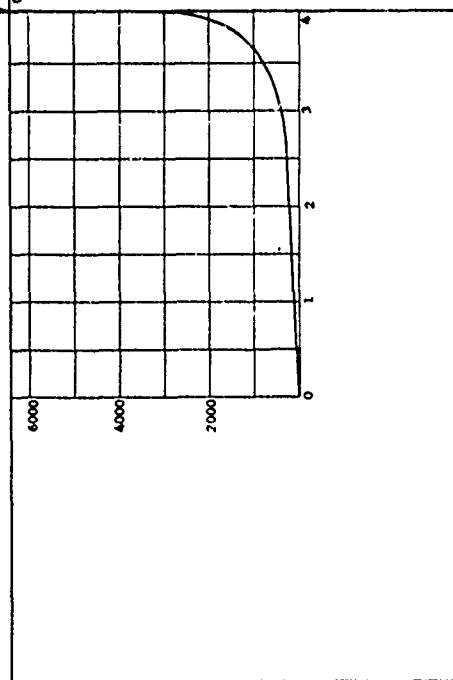
WATER CONTENT	W	10.68	%
VOID RATIO	e_0	0.40	
SATURATION	S_0	71.32	%
DRY DENSITY	γ_d	119.00	pcf
WET DENSITY	γ	131.72	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.54	cm



HYDROSTATIC COMPRESSION PHASE

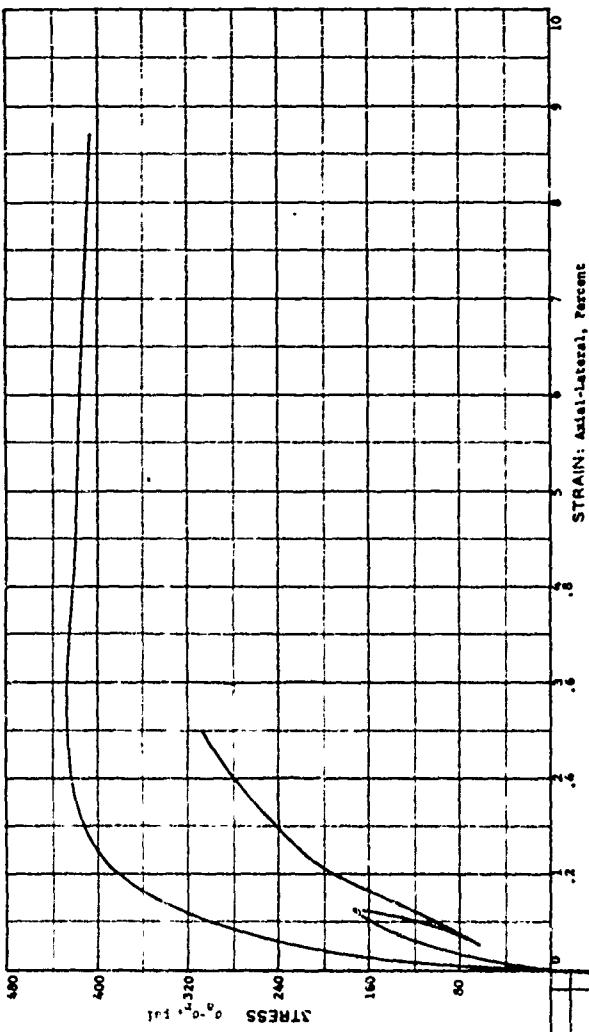


HYDROSTATIC PRESSURE, P , psi

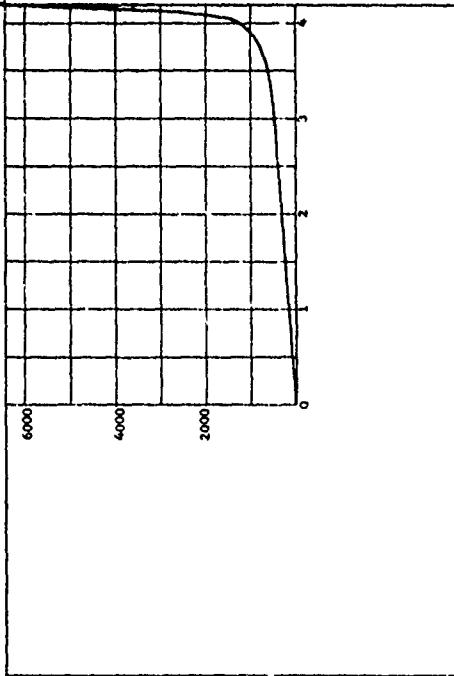
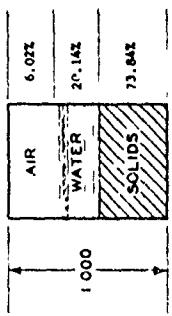


PROJECT Georgia Institute of Technology B-602	
Contract No. DACA19-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 178
DEPTH	DATE
EL	
LL	PL 15 PI 12
DESCRIPTION McCormick Ranch Sand	
Triaxial-Cyclic Shear @ 35%	

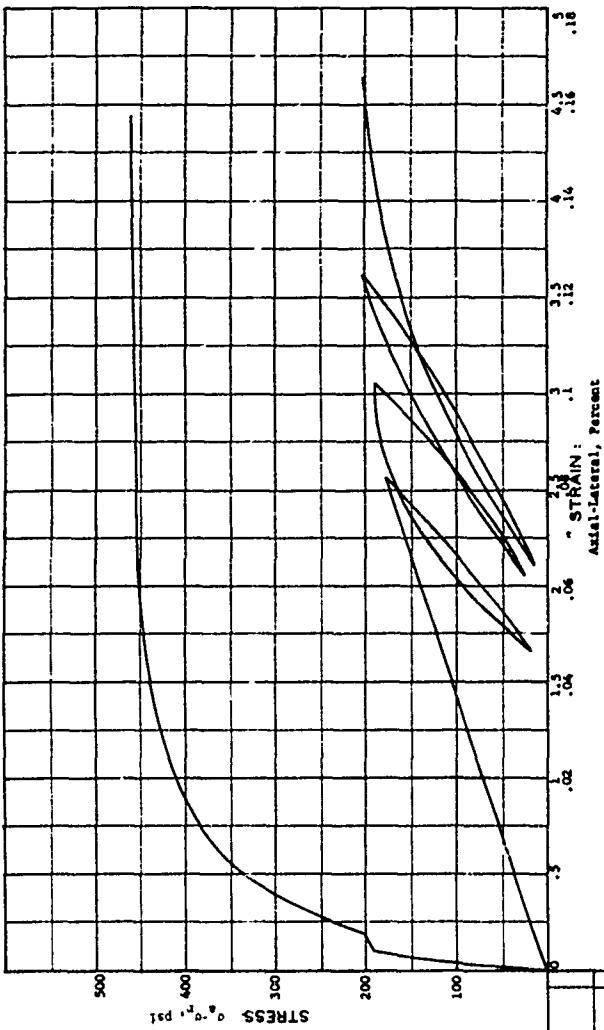
WATER CONTENT	W	10.22 %
VOID RATIO	e_0	0.35
SATURATION	s_0	76.97 %
DRY DENSITY	γ_d	123.02 Pcf
WET DENSITY	γ	135.58 Pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 CM
SPECIMEN HEIGHT	H_o	7.56 CM



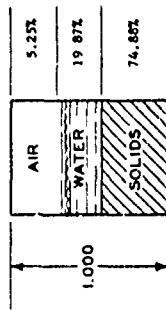
HYDROSTATIC COMPRESSION PHASE



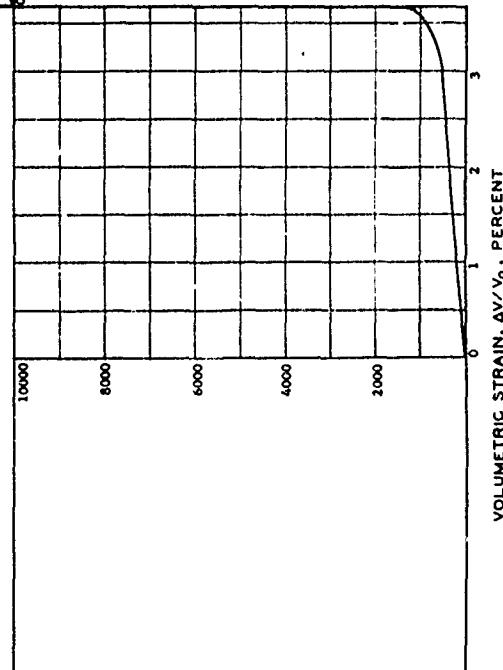
PROJECT	Geotext Institute of Technology 1-602
Contract No.	DAAC39-97-0031
AREA	SAMPLE NO. 180
BORING NO	DATE
DEPTH	
EL.	
LL	PL LS PL LS
DESCRIPTION Recomick Ranch Sand	
Triaxial-Cycle Shear Q-352	



WATER CONTENT	W	9.34 %
VOID RATIO	e_0	0.34
SATURATION	S_o	79.11 %
DRY DENSITY	γ_d	124.75 PCF
WET DENSITY	γ	137.15 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 CM
SPECIMEN HEIGHT	H_o	7.32 CM



HYDROSTATIC COMPRESSION PHASE

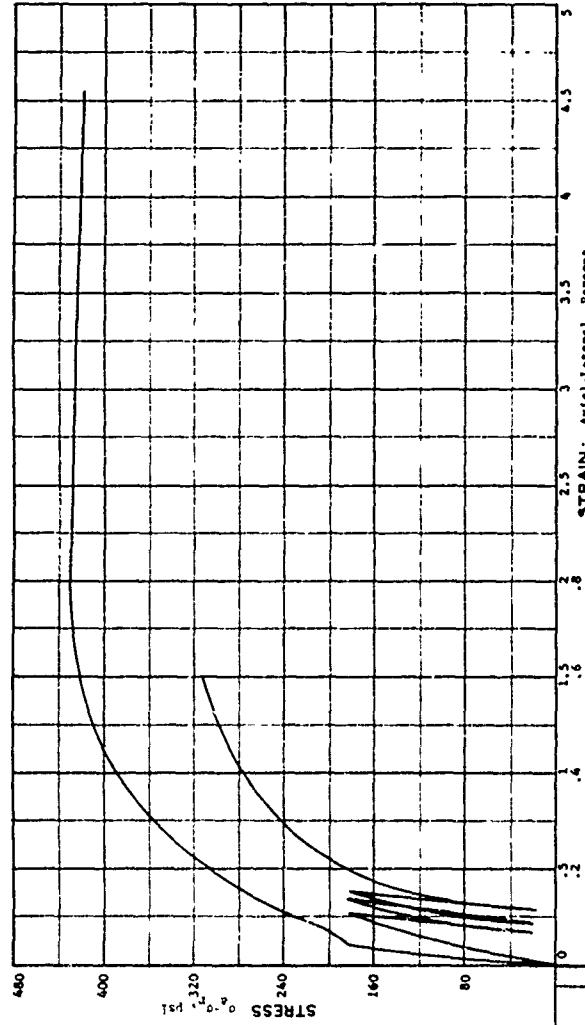


HYDROSTATIC PRESSURE, P, PSI

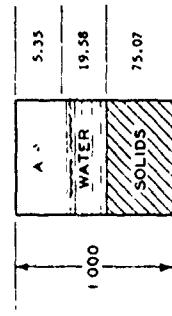
88

PROJECT Georgia Institute of Technology A-102	
Contract No. DMAA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 171
DEPTH EL	DATE
LL 27	PL 15
	PI 12
DESCRIPTION McCormick Ranch Sand	
Triaxial-Cyclic Shear @ 35%	

WATER CONTENT	W	9.77 %
VOID RATIO	e_0	0.33
SATURATION	S_g	78.56 %
DRY DENSITY	γ_d	125.08 PCF
WET DENSITY	γ	137.30 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.52 CM

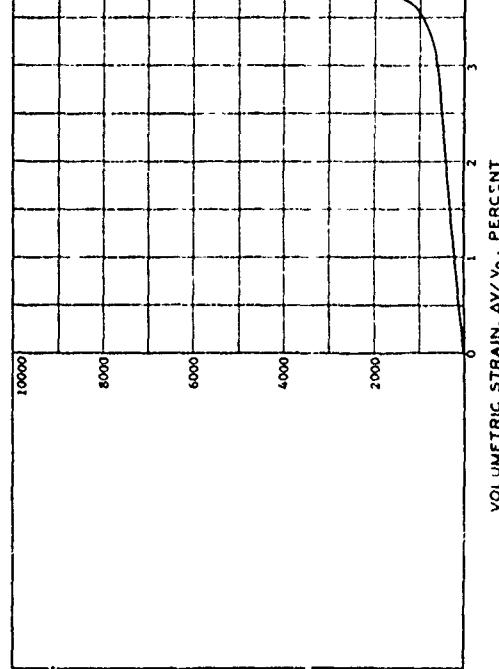


HYDROSTATIC COMPRESSION PHASE

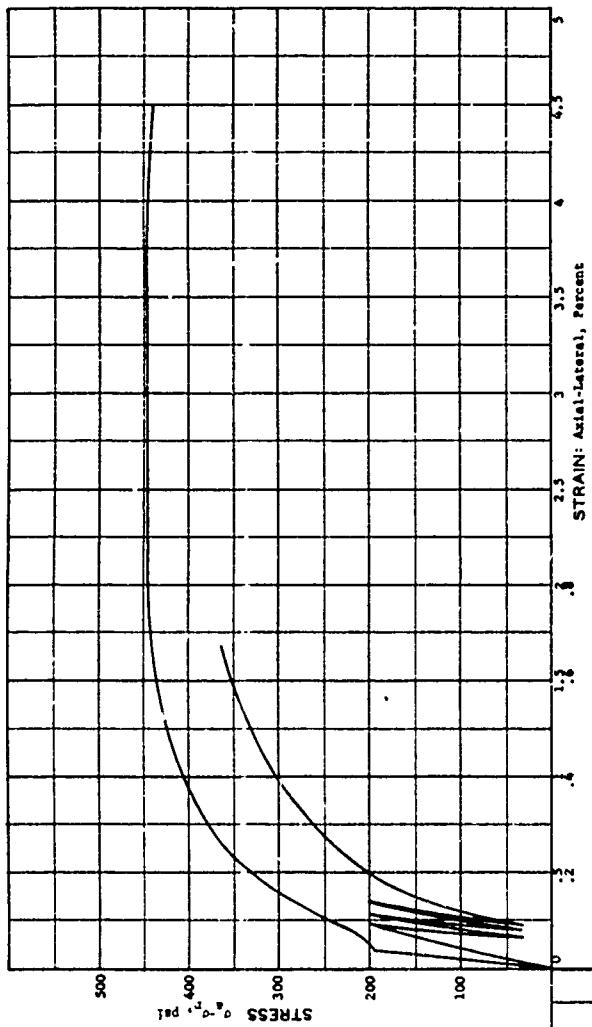


HYDROSTATIC PRESSURE, P , PSI

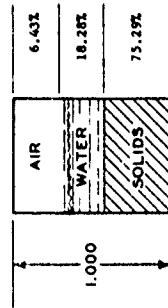
28



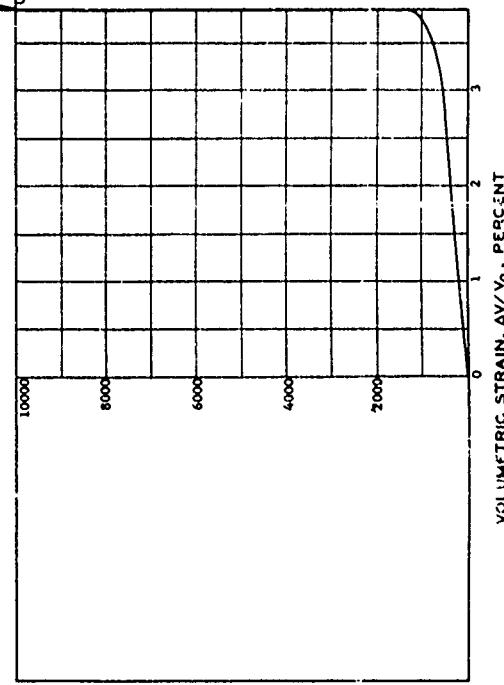
PROJECT	Georgia Institute of Technology S-602	
Contract No.	DACA39-67-C-0051	
AREA		
BORING NO.	SAMPLE NO. 176	
DEPTH	DATE	
EL.	PL	15
LL	PL	12
DESCRIPTION McCormick Ranch Sand		
Triaxial-Cycle Shear Q-352		



WATER CONTENT	W	9.09 %
VOID RATIO	e ₀	0.33
SATURATION	s ₀	74.01 %
DRY DENSITY	γ _d	125.45 PCF
WET DENSITY	γ _w	136.86 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.51 CM



HYDROSTATIC COMPRESSION PHASE

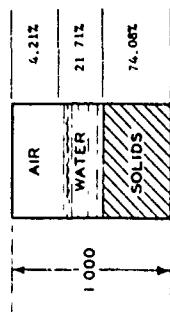


PROJECT Georgia Institute of Technology B-602	
Contract No. DACA39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 179
DEPTH	DATE
EL.	PL
LL	P _L
DESCRIPTION McCormick Ranch Sand	
Triaxial-Cyclic Shear @ 3%	

Group C

Triaxial Tests, Cyclic at 75%

WATER CONTENT	W	10.98 %
VOID RATIO	e_0	0.35
SATURATION	S_0	83.77 %
DRY DENSITY	γ_d	123.43 PCF
WET DENSITY	γ	136.97 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.51 CM
SPECIMEN HEIGHT	H_0	7.52 CM

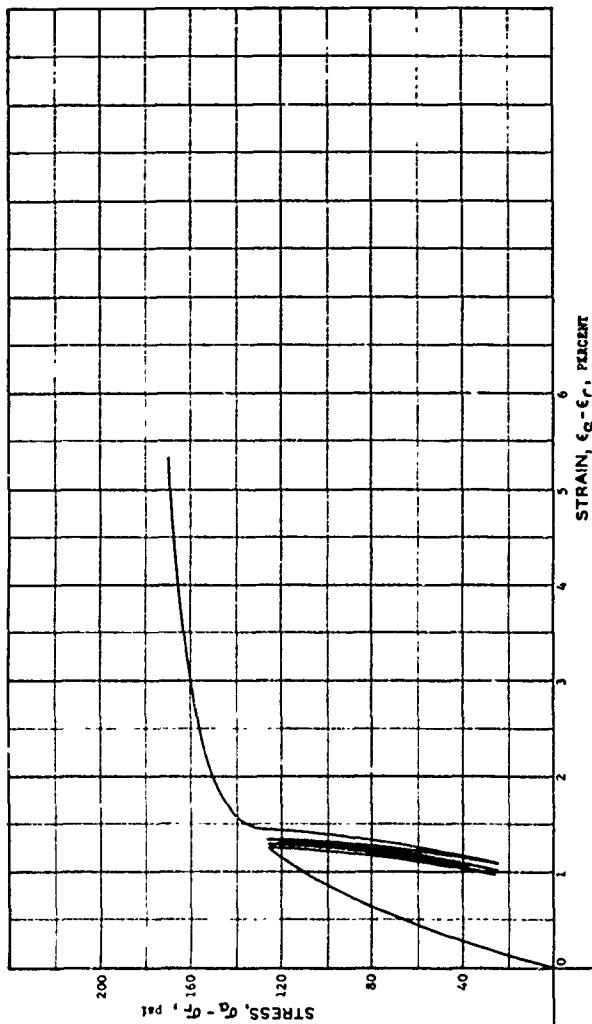


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

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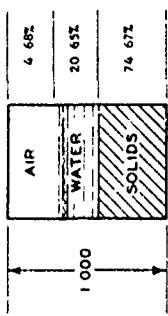
93



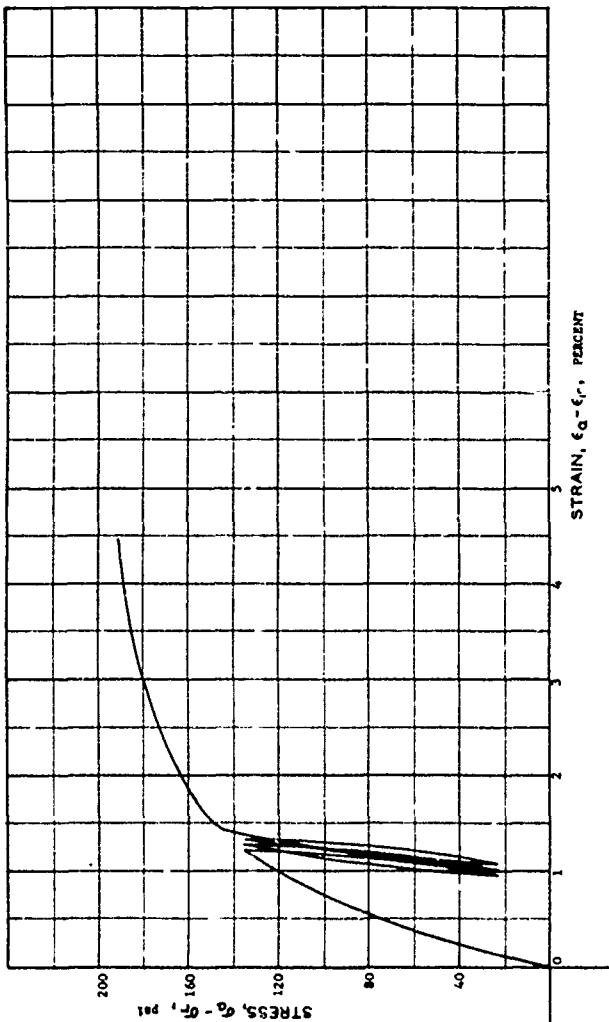
PROJECT	G-Tech B-602,	
Contract No. DACA39-67-C-0031		
AREA		
BORING NO	SAMPLE NO. 107	
DEPTH	DATE	
EL		
LL	27	PL
	15	P1
		12
DESCRIPTION McCormick Ranch Sand		
Initial-Cycle Shear @ 75%		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.36 %
VOID RATIO	e_0	0.34
SATURATION	S_o	81.32 %
DRY DENSITY	γ_d	126.40pcf
WET DENSITY	γ	137.29pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 cm
SPECIMEN HEIGHT	H_o	7.51 cm



HYDROSTATIC COMPRESSION PHASE

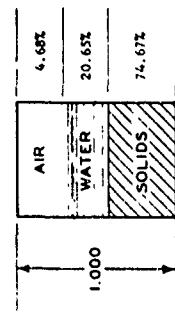
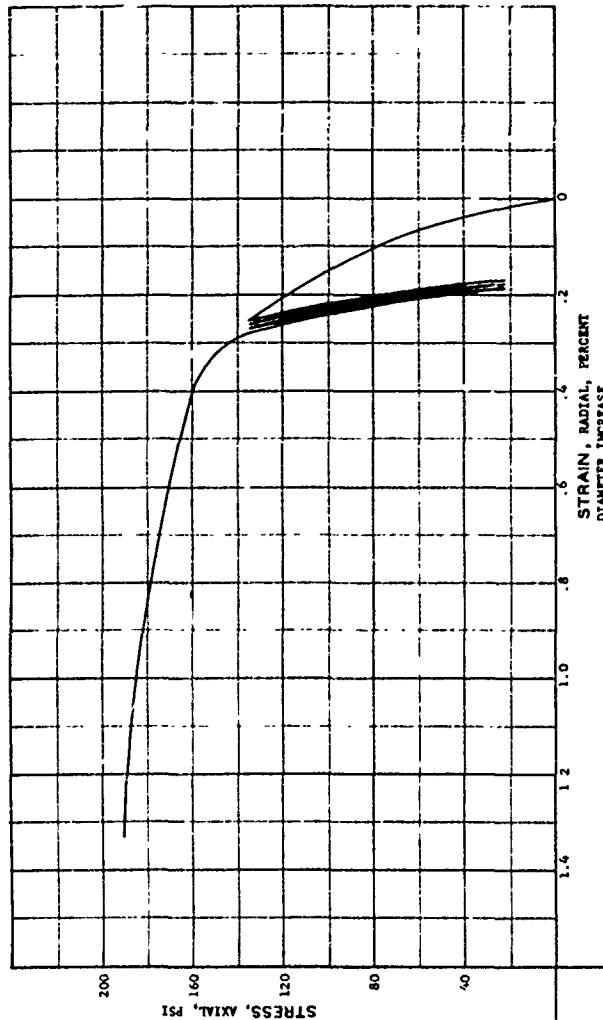


94

HYDROSTATIC PRESSURE, P, PSI

PROJECT Ca Tech 8-602,	
Contract No. DACA39-67-C-0251	
AREA	
BORING NO	SAMPLE NO. 109
DEPTH	DATE
EL	
LL 27	PL 15
	PI 12
DESCRIPTION McCormick Ranch Sand	
Triassic, Cycite 0.75%	
Lateral Pressure, 200 psi	

WATER CONTENT	W	10.36	%
VOID RATIO	e_0	0.14	
SATURATION	S_o	81.32	%
DRY DENSITY	γ_d	124.40	PCF
WET DENSITY	γ	137.39	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	CM
SPECIMEN HEIGHT	H_o	7.51	CM



HYDROSTATIC COMPRESSION PHASE

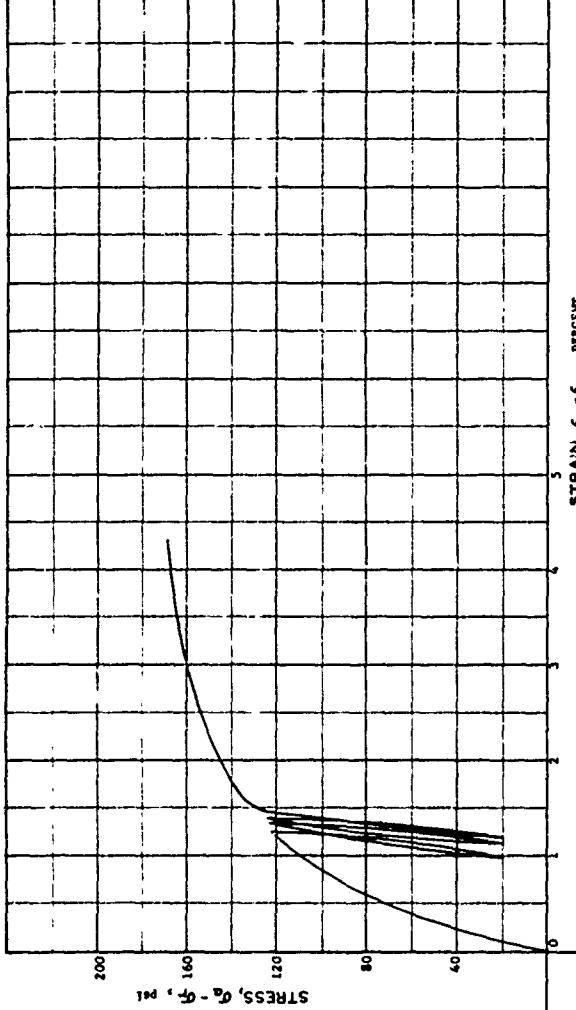
HYDROSTATIC PRESSURE, P, PSI

95

PROJECT	G. Tech 3-602.
Contract No.	DACAR3-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 109
DEPTH EL.	DATE
LL	PL 15 PI 12

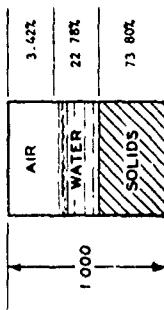
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

Lateral Pressure, 200 psi



STRAIN, $\epsilon_0 - \epsilon_r$, PERCENT

HYDROSTATIC COMPRESSION PHASE



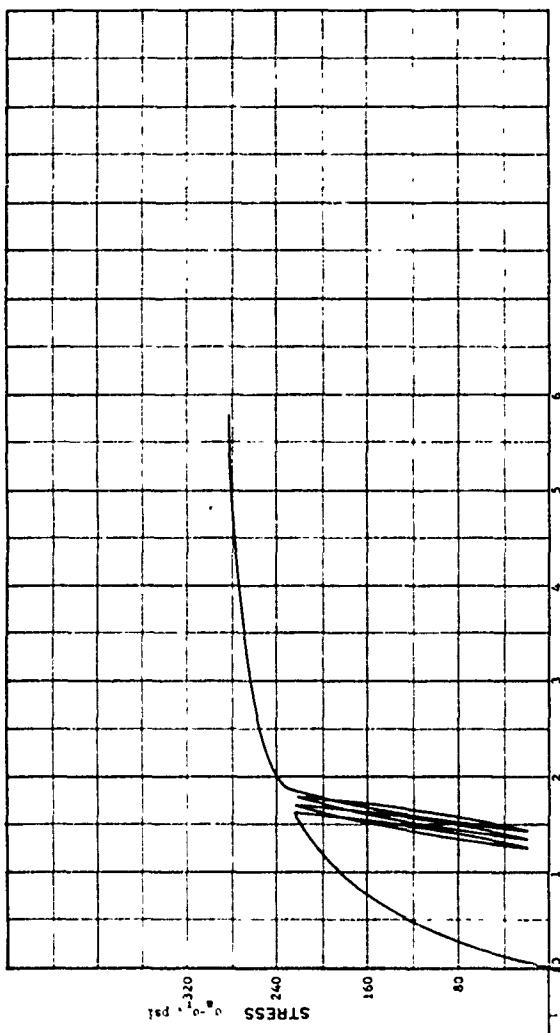
WATER CONTENT	W	11.56 %
VOID RATIO	e_0	0.35
SATURATION	S_o	86.96 %
DRY DENSITY	γ_d	122.95pcf
WET DENSITY	γ	137.17pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.52 cm
SPECIMEN HEIGHT	H_o	7.49 cm

AQUASTATIC PRESSURE, P, PSI

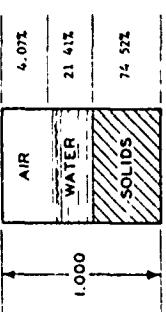
PROJECT	Ga Tech 3-602.
Contract No.	DACAL9-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 113
DEPTH	DATE
EL.	
LL	PL IS PI 12
DESCRIPTION	
McCorckle Branch Sand	
Triaxial-Cycle Shear @ 75%	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.76 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	64.03 %
DRY DENSITY	γ_d	124.15 PCF
WEIGHT DENSITY	γ	137.51 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.54 CM

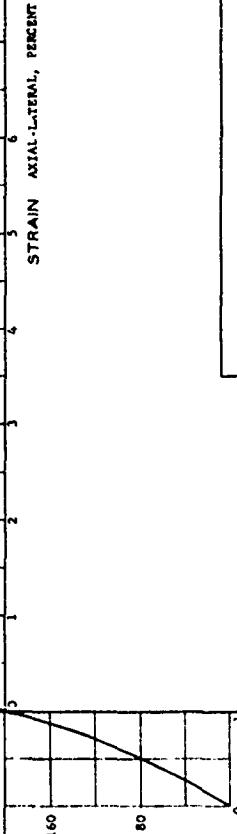


HYDROSTATIC COMPRESSION PHASE

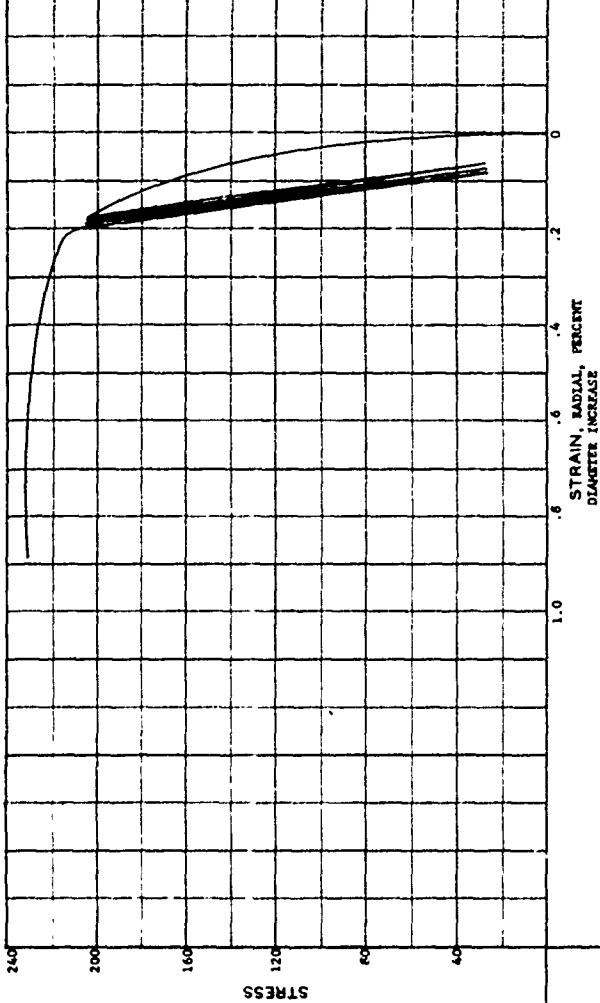


HYDROSTATIC PRESSURE, P, PSI

97

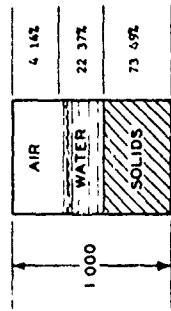


PROJECT <u>Ge Tech B-602</u>			
Contract No. <u>DMCA39-67-C-0051</u>			
AREA _____			
BORING NO _____	SAMPLE NO. <u>103C</u>	DEPTH _____	
EL. _____	DATE _____	_____	
LL. <u>27</u>	PL. <u>15</u>	P1. <u>12</u>	_____
DESCRIPTION <u>McComick Ranch Sand</u>			
Triaxial-Cyclic Shear @ 75%			



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	11.40	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	84.40	%
DRY DENSITY	γ_d	122.44	pcf
WET DENSITY	γ	136.40	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.52	cm
SPECIMEN HEIGHT	H_o	7.50	cm



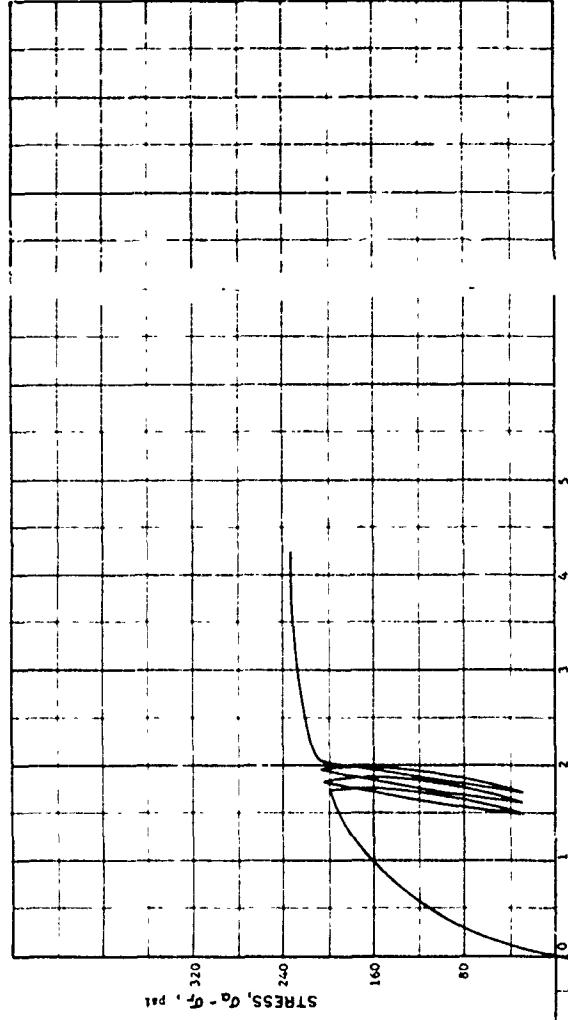
HYDROSTATIC PRESSURE, P, PSI

98

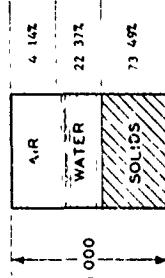
PROJECT	Ge Tech 3-692.				
Contract No.	DACAR-67-C-905				
AREA					
BORING NO.	SA 1				
EL	E NO. 110				
EL	DAF				
LL	27	PL	15	Pt	12
DESCRIPTION McConaughy Marsh Sand					
Triaxial, Cyclic @ 753					
Lateral Pressure, 200 psi					

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.40 %
VOID RATIO	e_0	0.36
SATURATION	S_o	84.40 %
DRY DENSITY	γ_d	122.44 PCF
WET DENSITY	γ	136.40 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.52 CM
SPECIMEN HEIGHT	H_o	7.50 CM



HYDROSTATIC COMPRESSION PHASE

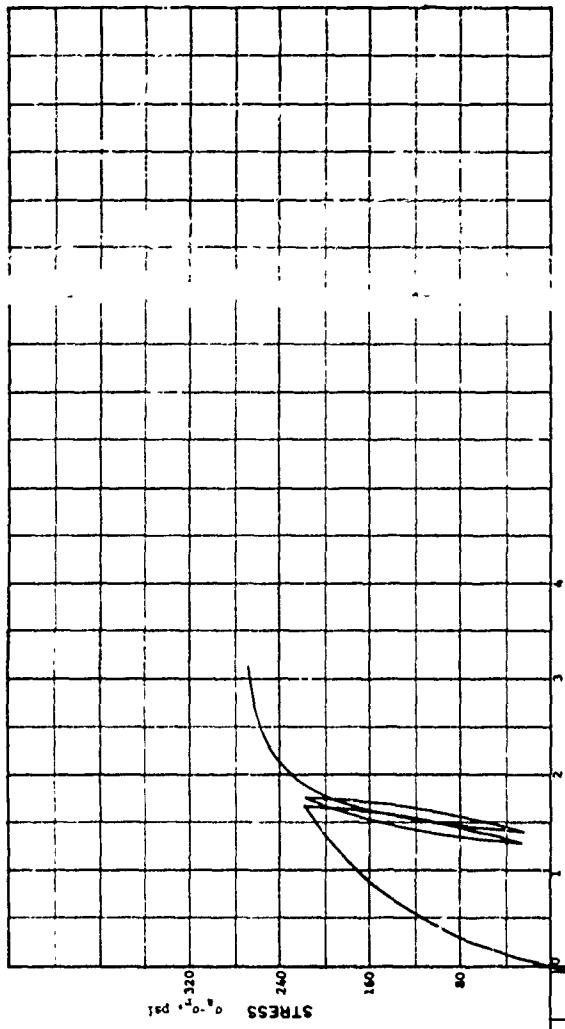


HYDROSTATIC PRESSURE, p , PSI

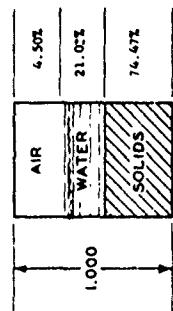
96

PROJECT	Ga Tech B-602.
	Contract No. DA-CA-39-67-C-0
AREA	
BORING NO.	S. FLINN 110
DEPTH	EL
EL	
LL	27 PL 15 PI 12
DESCRIPTION	Nicodem Ranch Ranch
	Material, Cyclic Q-752
	Lateral Pressure, 200 psi

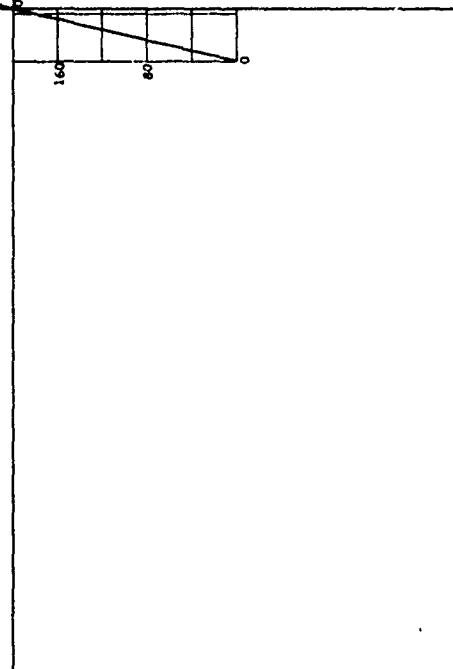
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.58 %
VOID RATIO	e_0	0.34
SATURATION	S_o	82.38 %
DRY DENSITY	γ_d	124.08pcf
WET DENSITY	γ_w	137.20pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.52 cm
SPECIMEN HEIGHT	H_o	7.42 cm



HYDROSTATIC COMPRESSION PHASE

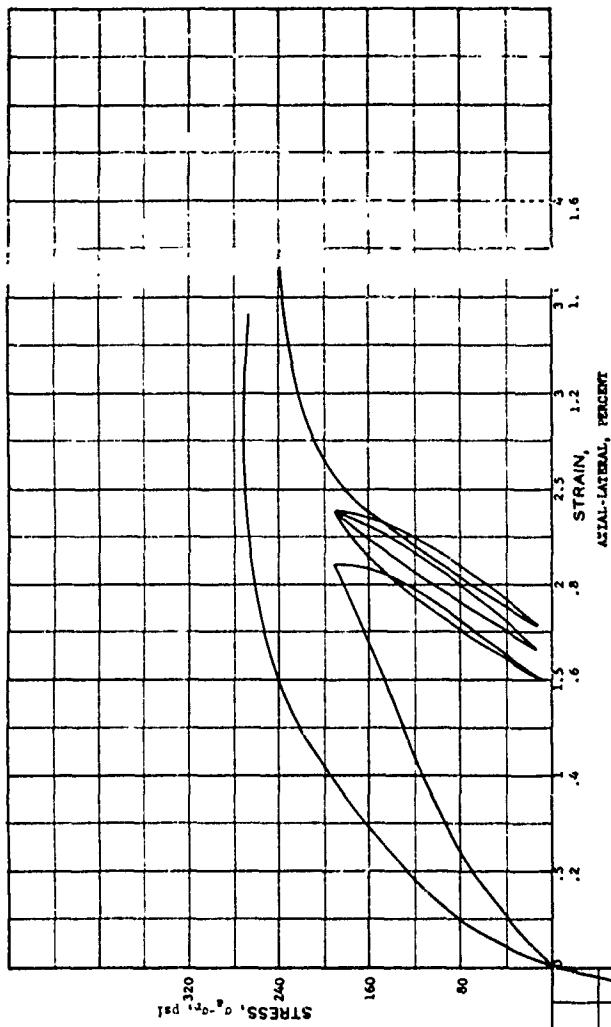
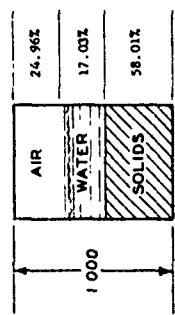


100

PROJECT	Georgia Institute of Tech	Y
Core No.	DAC19-67-D-1	
AREA		
BORING NO.	SAMPLE NO. 123	
DEPTH	TE	
EL.		
LL.	27	PL 15
		P1 12
DESCRIPTION	McCorck Ranch Sand	
	Triaxial-Cyclic Shear G / t	

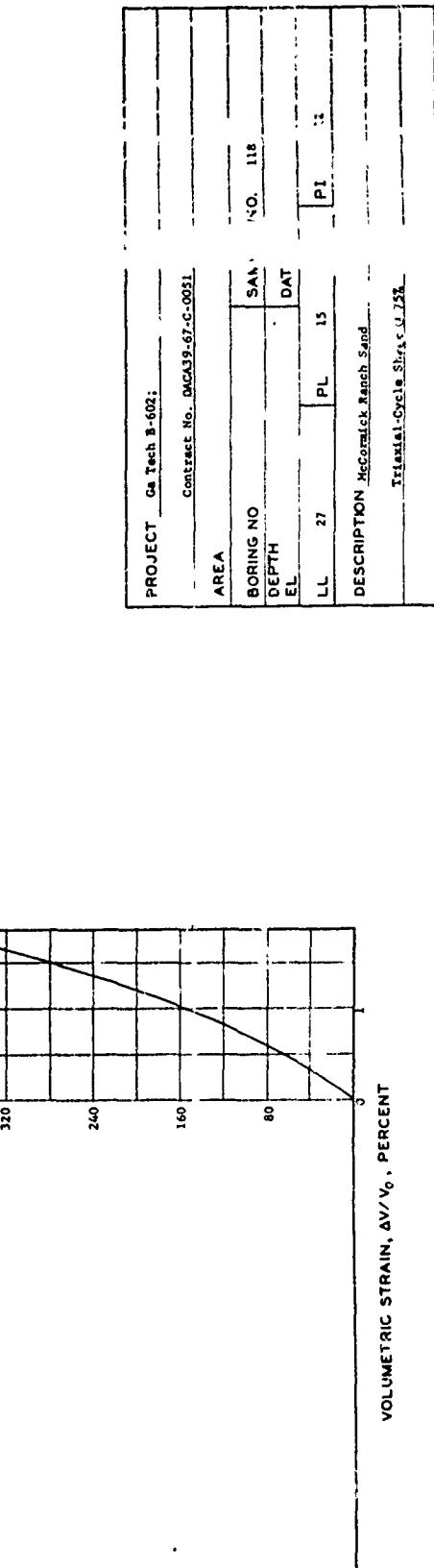
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.99 %
VOID RATIO	e _v	0.72
SATURATION	S _o	40.55 %
DRY DENSITY	γ_d	96.65 PCF
WET DENSITY	γ	101.27 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.95 CM
SPECIMEN HEIGHT	H ₀	7.51 CM

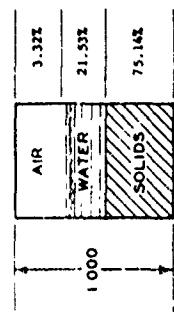


101

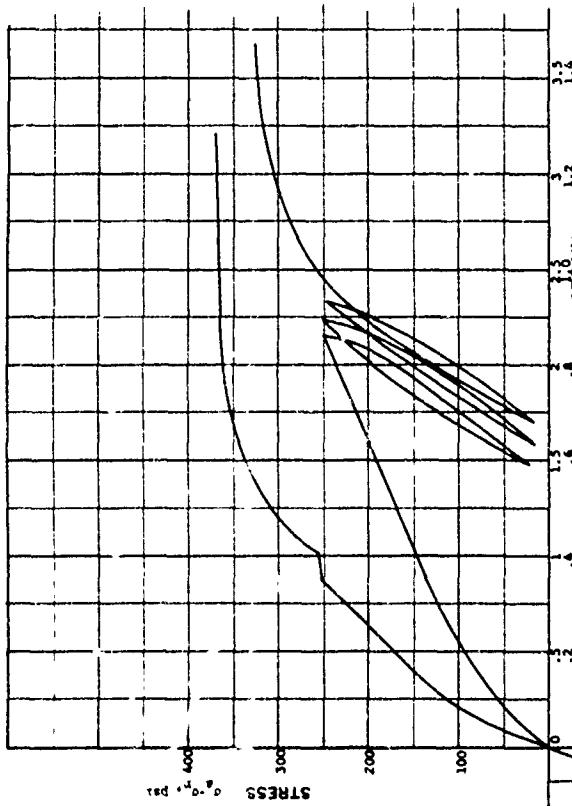
HYDROSTATIC PRESSURE, P, PSI



WATER CONTENT	w	10.73 %
VOID RATIO	e ₀	0.33
SATURATION	s ₀	66.63 %
DRY DENSITY	γ_d	123.20 PCF
WET DENSITY	γ	138.63 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.69 CM
SPECIMEN HEIGHT	H ₀	2.46 CM

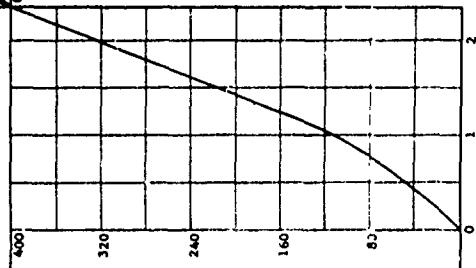


HYDROSTATIC COMPRESSION PHASE



102

HYDROSTATIC PRESSURE, P, PSI

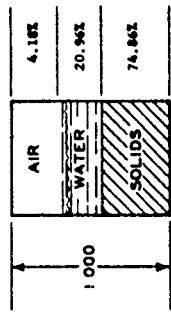


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

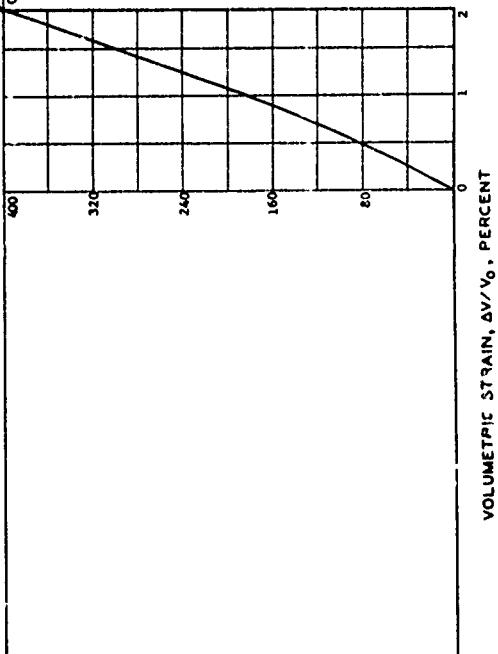
HYDROSTATIC PRESSURE, P, PSI

PROJECT <u>Geotechnical Institute of Technology 3-602</u>	
Contract No. <u>DMCA9-67-C-0011</u>	
AREA	
BORING NO.	SAMPLE NO.
DEPTH	DATE
EL	120
LL	PL
27	15
	17
DESCRIPTION <u>McComick Ranch Sand</u>	
Triaxial-Cyclic Sheet P-252	

WATER CONTENT	W	10.49 %
VOID RATIO	e_0	0.34
SATURATION	S_o	83.38 %
DRY DENSITY	γ_d	126.73 PCF
WET DENSITY	γ_w	137.80 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.47 CM

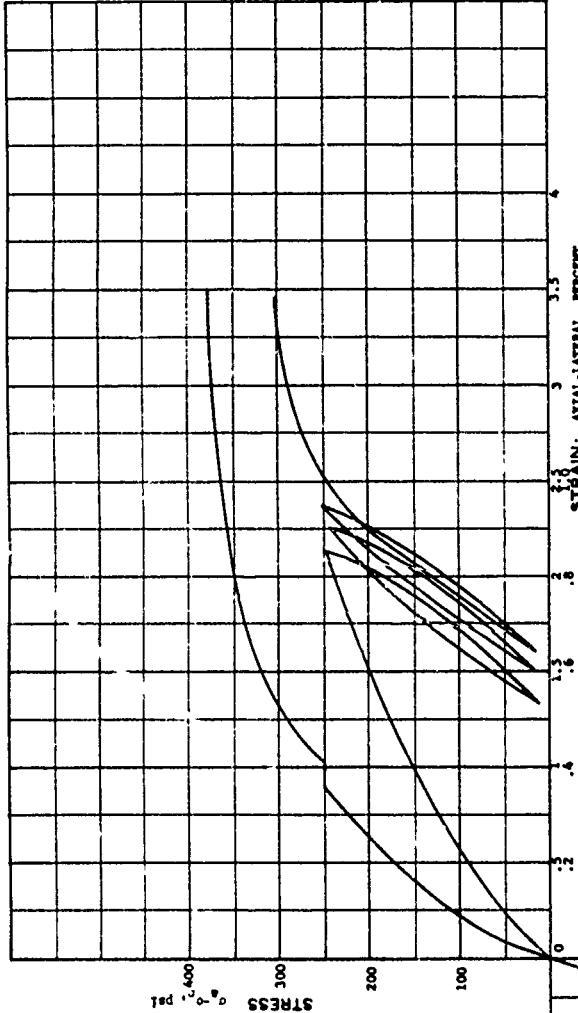


HYDROSTATIC COMPRESSION PHASE

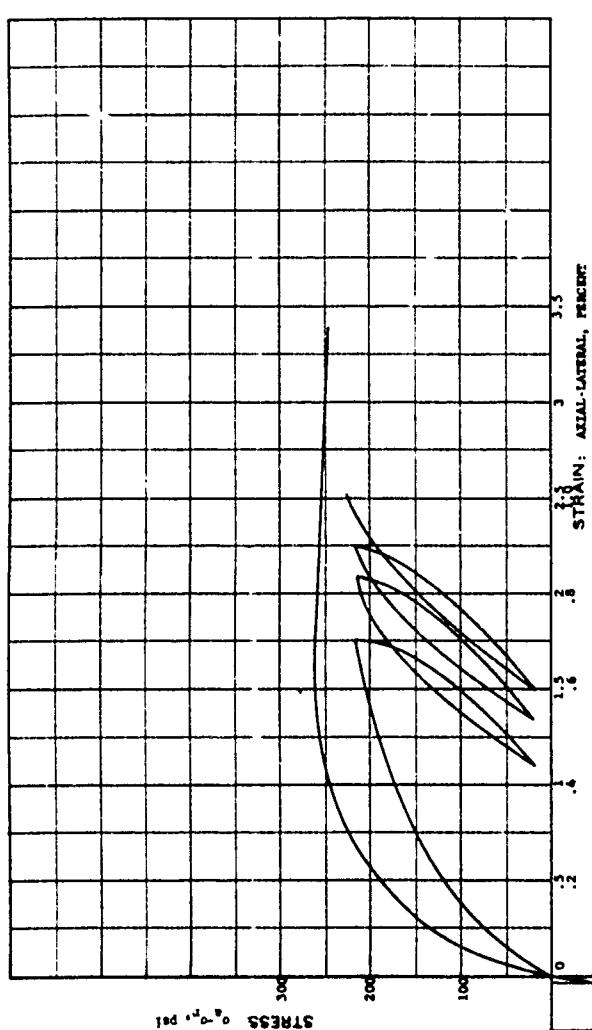


HYDROSTATIC PRESSURE, P , PSI

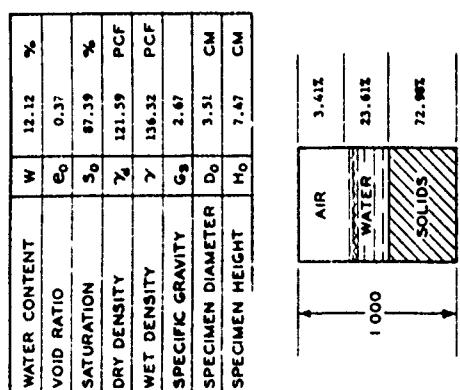
103



PROJECT	Georgia Institute of Technology	
Contract No.	DACA39-67-C-0031	
<hr/>		
AREA		
BORING NO.	SAMPLE NO. 121	
DEPTH		DATE
EL		
LL	27	PL 15
		P1 12
DESCRIPTION	McConaughay Ranch Sand Triaxial-Cycle Shear @ 75%	

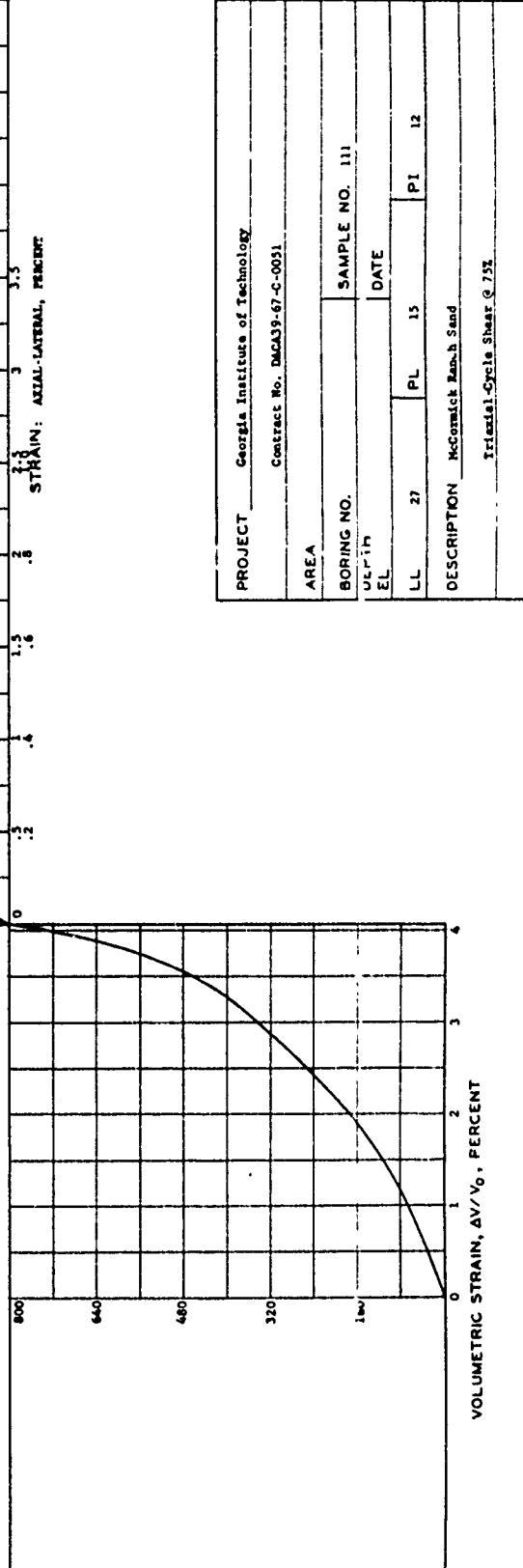


HYDROSTATIC COMPRESSION PHASE

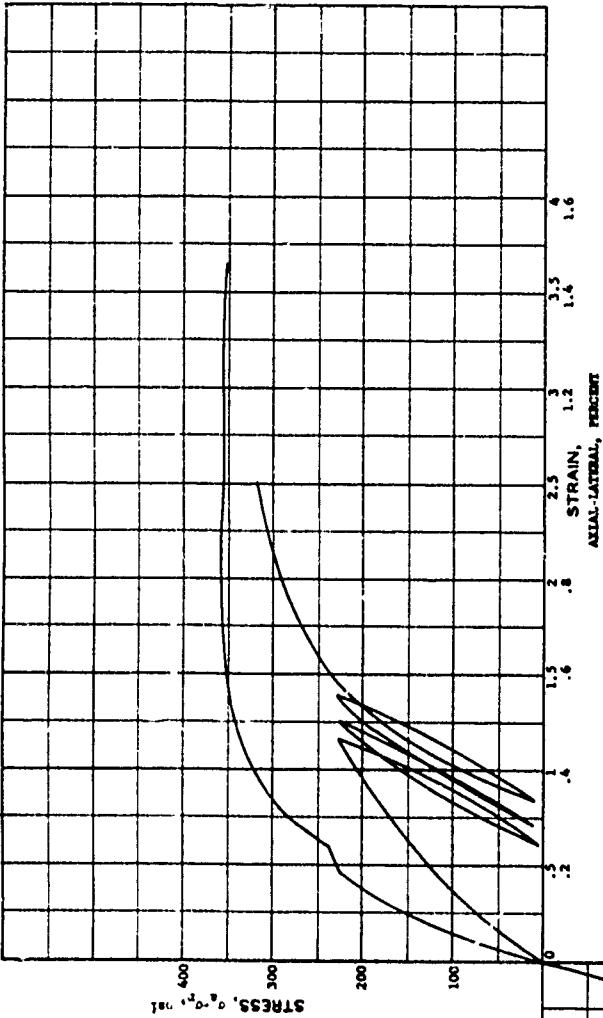


HYDROSTATIC PRESSURE, P, PSI

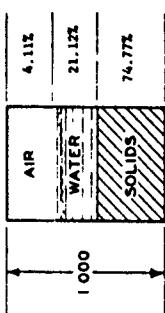
10^4



WATER CONTENT	W	10.58 %
VOID RATIO	e_0	0.34
SATURATION	S_0	63.12 %
DRY DENSITY	γ_d	124.57 PCF
WET DENSITY	γ	137.75 PCF
CONCRETE GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.51 CM
SPECIMEN HEIGHT	H_0	7.46 CM

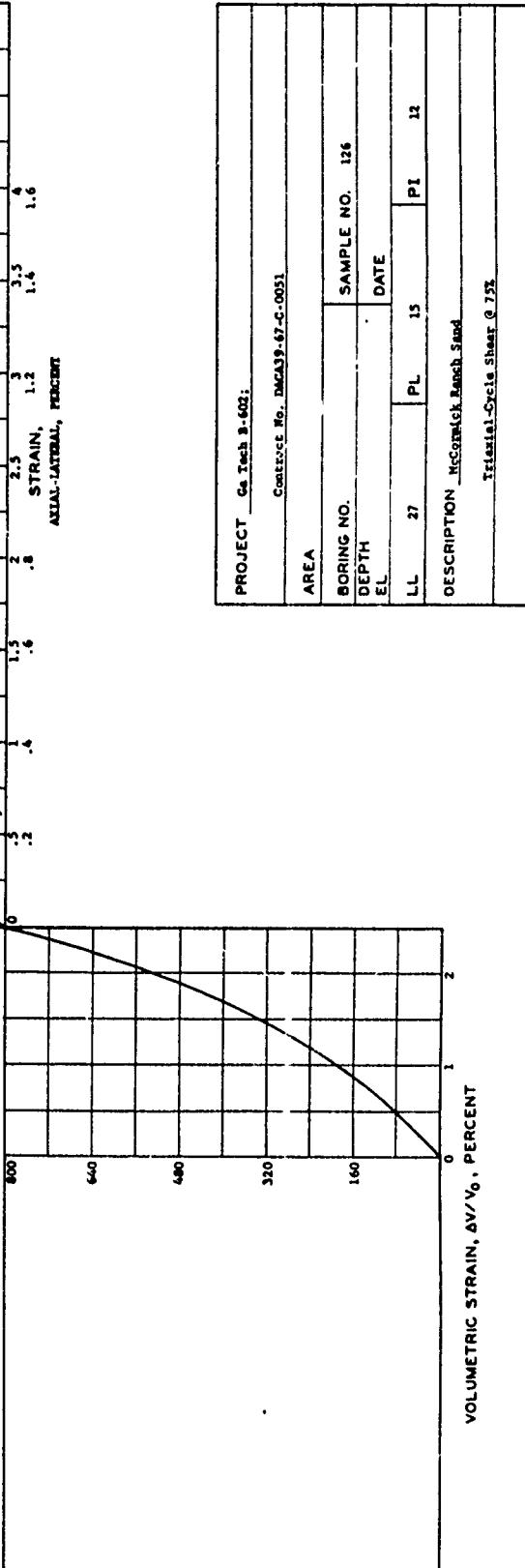


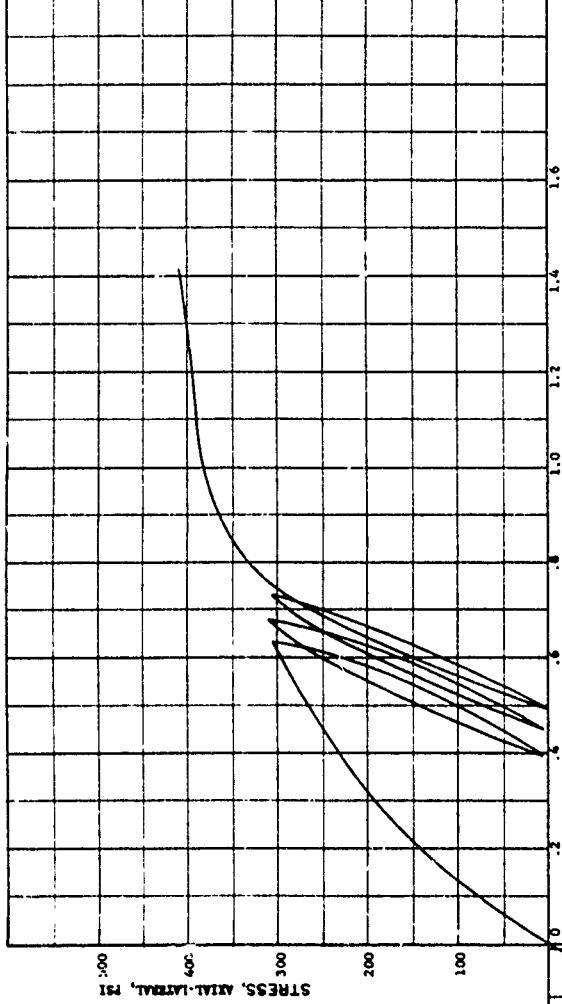
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

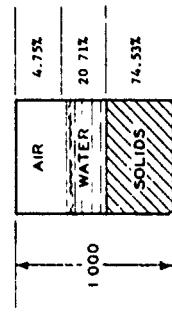
105



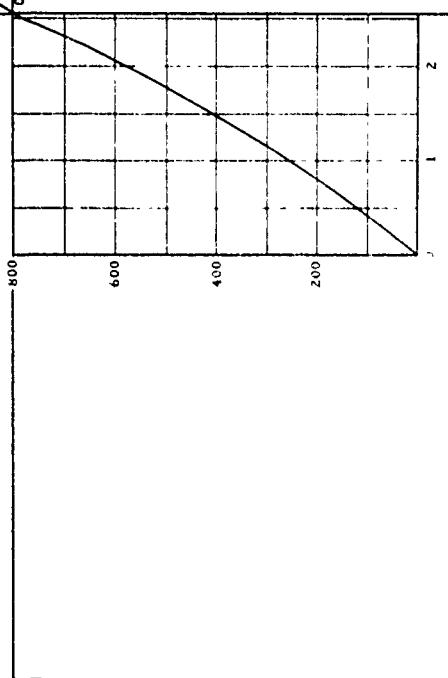


STRESS, AXIAL-LATERAL, PSI

WATER CONTENT	W	10.41	%
VOID RATIO	e_0	0.34	
SATURATION	s_o	81.33	%
DRY DENSITY	γ_d	126.17	pcf
WET DENSITY	γ	137.10	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	cm
SPECIMEN HEIGHT	H_o	7.46	cm



HYDROSTATIC COMPRESSION PHASE

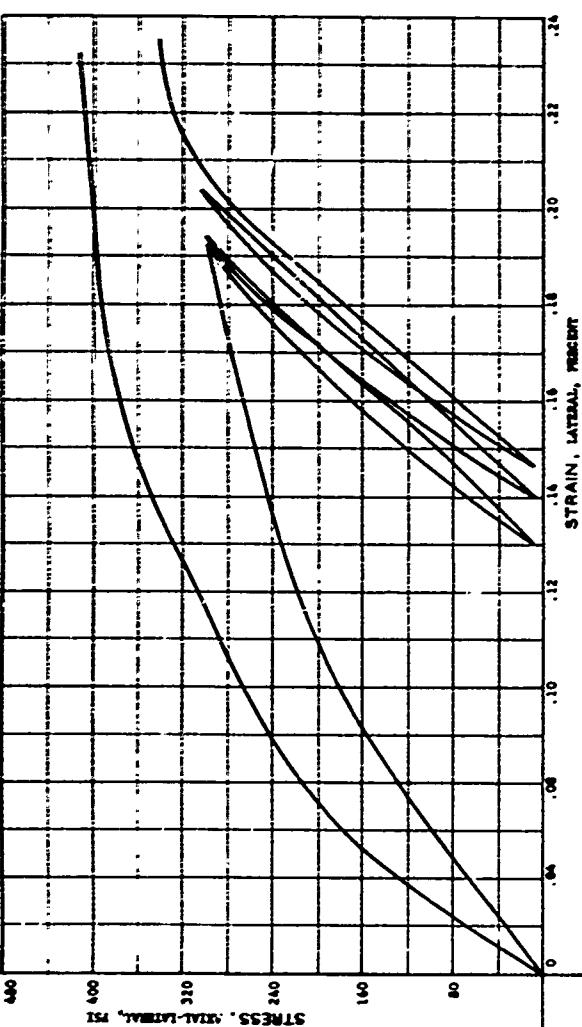


HYDROSTATIC PRESSURE, P, PSI

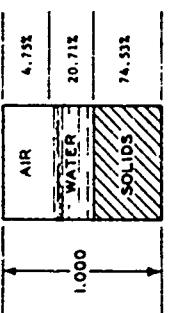
101

PROJECT Georgia Institute of Technology B-602	
Contract No. DMAE39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 128
DEPTH	DATE
EL	
LL	PL
	15
	P1
	12
DESCRIPTION McCormick Ranch Sand	
Triaxial, Cyclic Q 75%	
Lateral Pressure, 800 psi	

VOLUMETRIC STRAIN, $\delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE



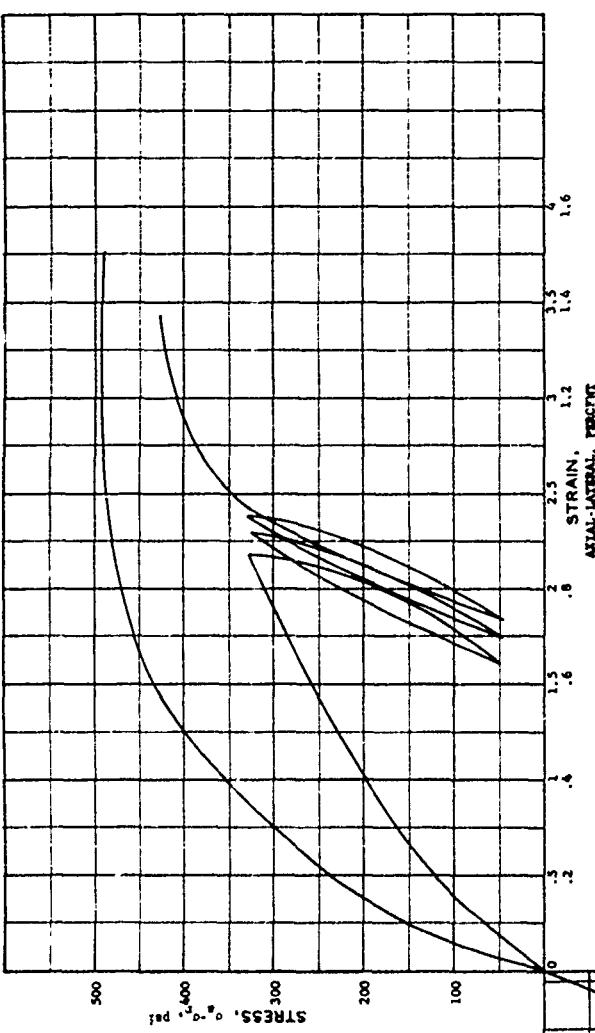
WATER CONTENT	W	10.61	%
VOID RATIO	e_0	0.34	
SATURATION	S_o	61.33	%
DRY DENSITY	γ_d	124.17	PCF
WET DENSITY	γ	137.10	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.51	CM
SPECIMEN HEIGHT	H_o	7.46	CM

HYDROSTATIC PRESSURE, P, PSI

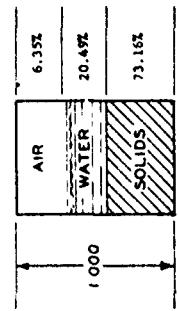
107

PROJECT Georgia Institute of Technology I-502	
Contract No. DA-CA-39-67-C-0021	
AREA	
BORING NO.	SAMPLE NO. 128
DEPTH EL.	DATE
LL 27	PL 15
	P1 12
DESCRIPTION McCormick Ranch, Sand	
Initial, Cycle 0.25%	
Lateral Pressure, 800 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



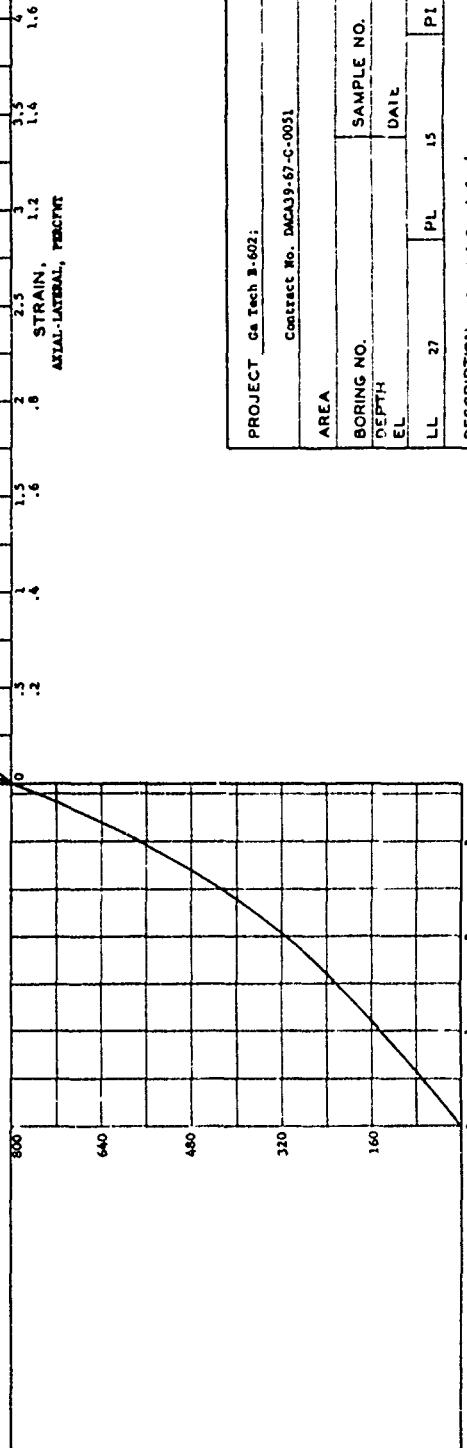
HYDROSTATIC COMPRESSION PHASE



WATER CONTENT	W	10.49	%
VOID RATIO	e_0	0.37	
SATURATION	S_o	76.33	%
DRY DENSITY	γ_d	121.88	pcf
WET DENSITY	γ	134.67	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.72	cm

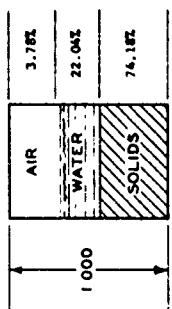
80T

HYDROSTATIC PRESSURE, P, PSI

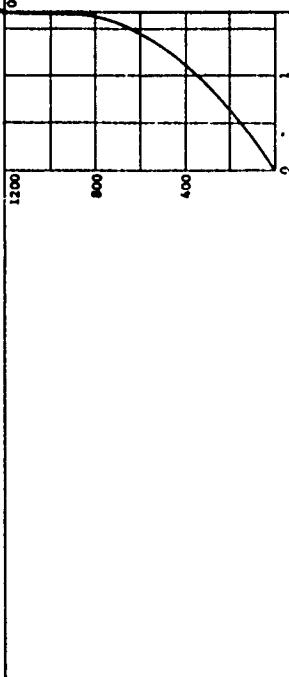


PROJECT	Ga Tech B-602;
Contract No.	DA-39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 131
DEPTH	DATE
EL	
LL	PL IS PI 12
DESCRIPTION McCormick Ranch Sand	
Triaxial-Cyclic Shear @ 75%	

WATER CONTENT	W	11.13	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	85.36	%
DRY DENSITY	γ_d	123.59	PCF
WET DENSITY	γ'	137.34	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	CM
SPECIMEN HEIGHT	H_o	7.48	CM

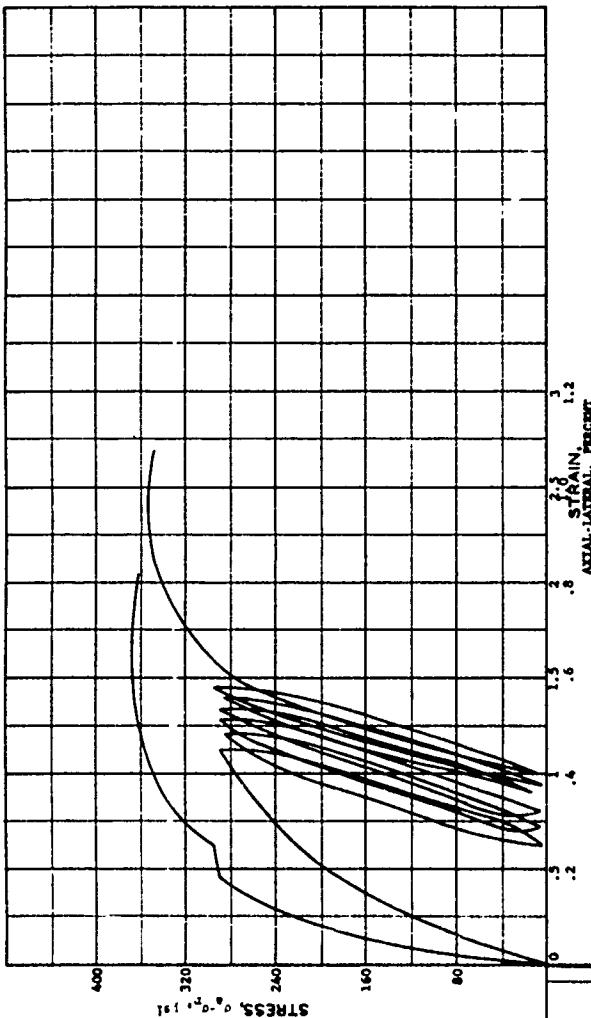


HYDROSTATIC COMPRESSION PHASE



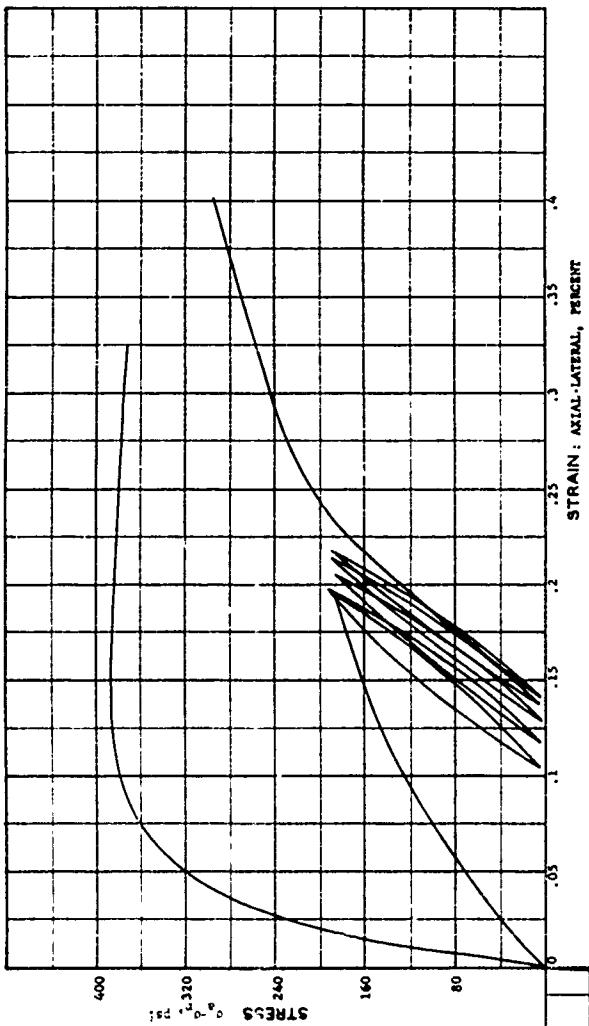
HYDROSTATIC PRESSURE, P , PSI

109

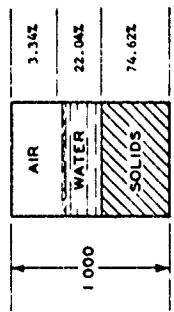


PROJECT	On Tech B-002;
Contract No. DMA39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 117
DEPTH	DATE
EL	
LL	PL 15
	P1 12
DESCRIPTION <u>Mechanistic Marsh Sand</u>	
<u>Triaxial-Cycle Shear @ 1%</u>	

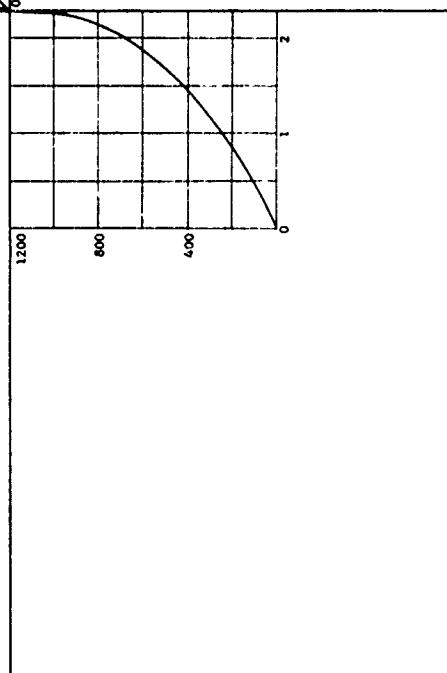
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE



WATER CONTENT	w	11.06 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	66.06 %
DRY DENSITY	D ₀	124.12 PCF
WET DENSITY	γ	139.08 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.49 CM



110

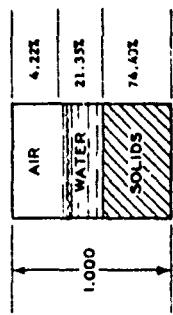
PROJECT <u>Georgia Institute of Technology 8-602</u>	
Contract No. <u>DACA39-67-C-0031</u>	
AREA	
BORING NO.	SAMPLE NO. <u>119</u>
DEPTH	DATE
EL.	
LL	PL
27	:15
	P1
	12

DESCRIPTION McCormick Ranch Sand

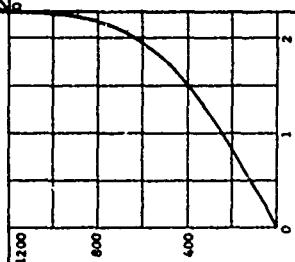
Initial-Circle Shear @ 15%

HYDROSTATIC PRESSURE, P, PSI

WATER CONTENT	W	10.75	%
VOID RATIO	e_0	0.34	
SATURATION	S_0	83.50	%
DRY DENSITY	γ_d	126.00	pcf
WET DENSITY	γ	137.32	pcf
GRAVITIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	cm
SPECIMEN HEIGHT	H_0	7.47	cm

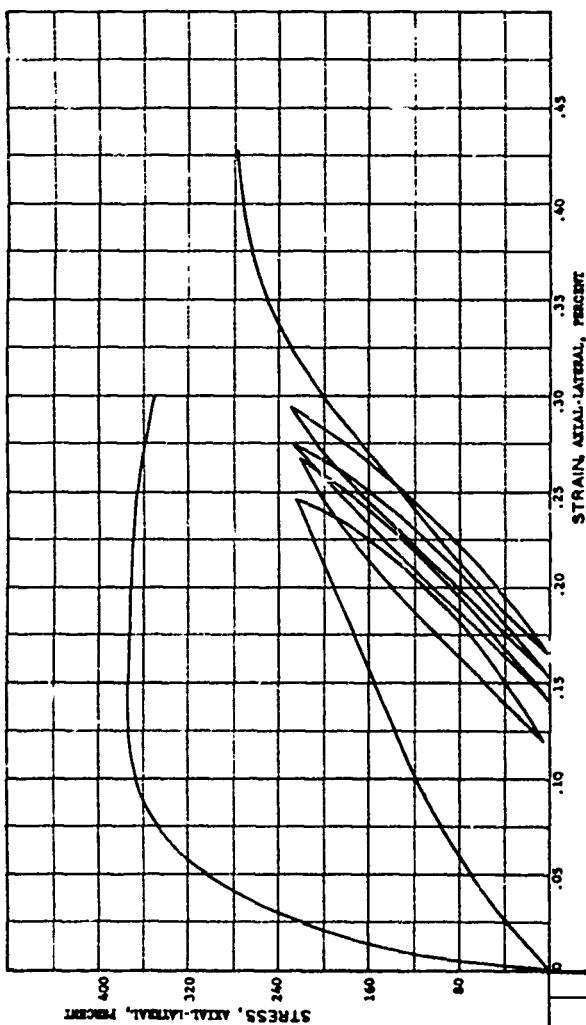


HYDROSTATIC COMPRESSION PHASE



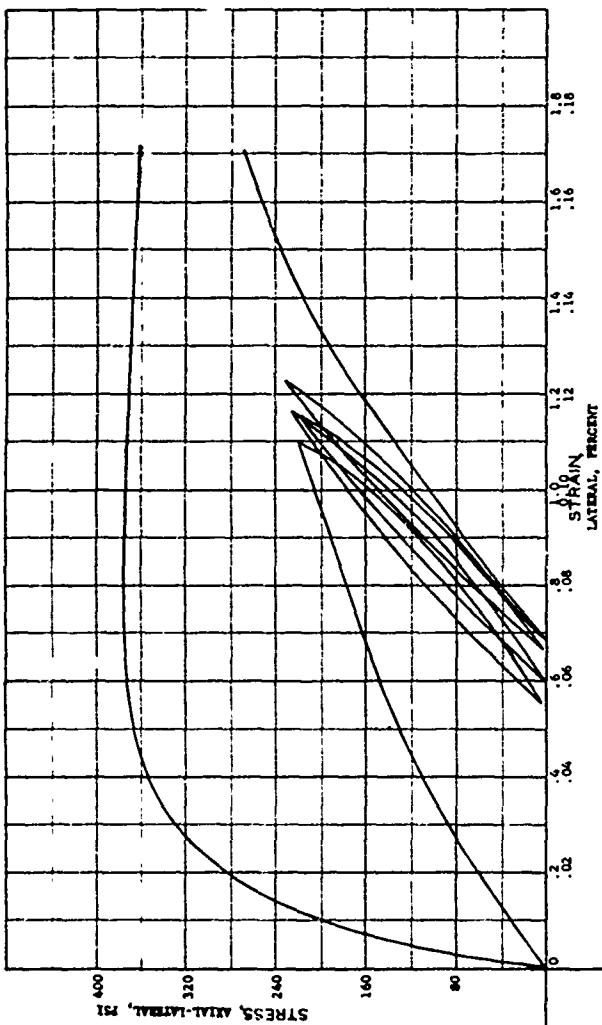
HYDROSTATIC PRESSURE, P, PSI

111

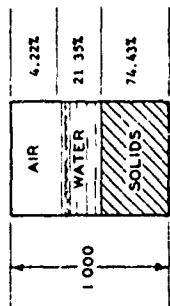


PROJECT <u>Georgia Institute of Technology 1-102</u>			
Contract No. <u>DAAG39-67-C-0051</u>			
AREA			
BORING NO.	SAMPLE NO.	124	
DEPTH	DATE		
EL.			
LL	PL	15	P1
			12
DESCRIPTION <u>McComb Ranch Sand</u>			
Interval Test Cycles @ 1%			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.75	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	83.50	%
DRY DENSITY	γ_d	124.00	pcf
WET DENSITY	γ	137.32	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	cm
SPECIMEN HEIGHT	H_0	7.47	cm



HYDROSTATIC COMPRESSION PHASE

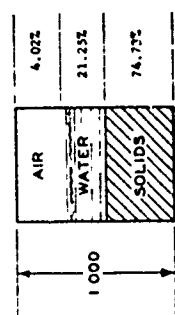
HYDROSTATIC PRESSURE, P, PSI

112

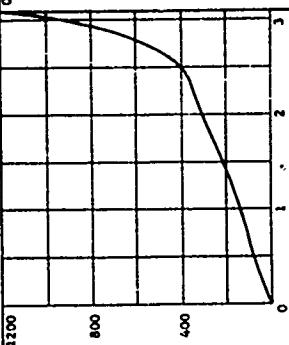
PROJECT: General Institute of Technology, B-602	
Contract No.: DACA12-62-C-0021	
AREA:	
BORING NO.	SAMPLE NO. 124
DEPTH EL.	DATE
L.L.	PL. 15
	P1 12
DESCRIPTION: McCormick Ranch Sand	
TESTS: Test Cycles @ 75%	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	w	10.65 %
VOID RATIO	e_0	0.34
SATURATION	S_o	84.11 %
DRY DENSITY	γ_d	124.50 PCF
WET DENSITY	γ	137.76 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.49 CM
SPECIMEN HEIGHT	H_o	7.54 CM

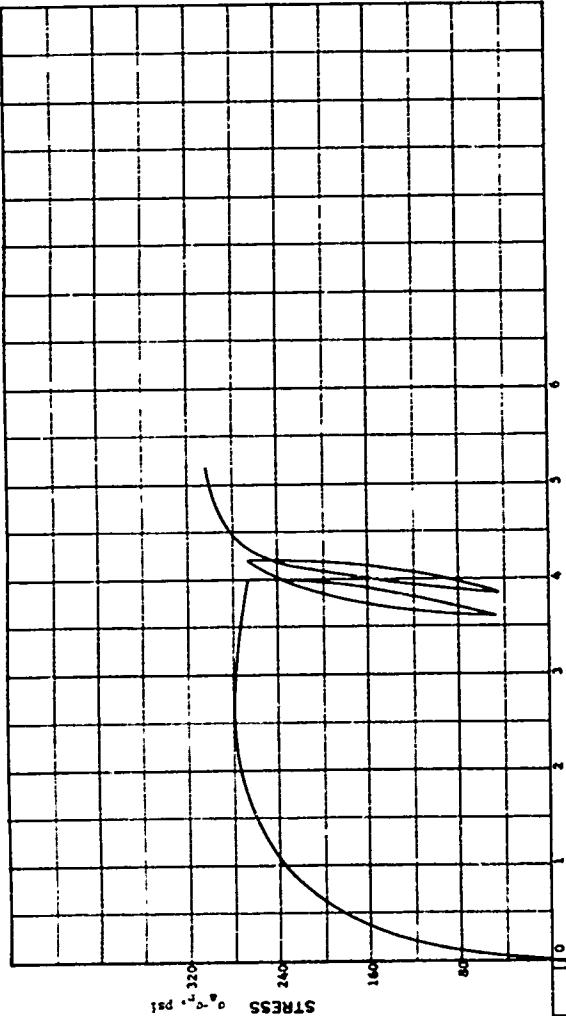


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

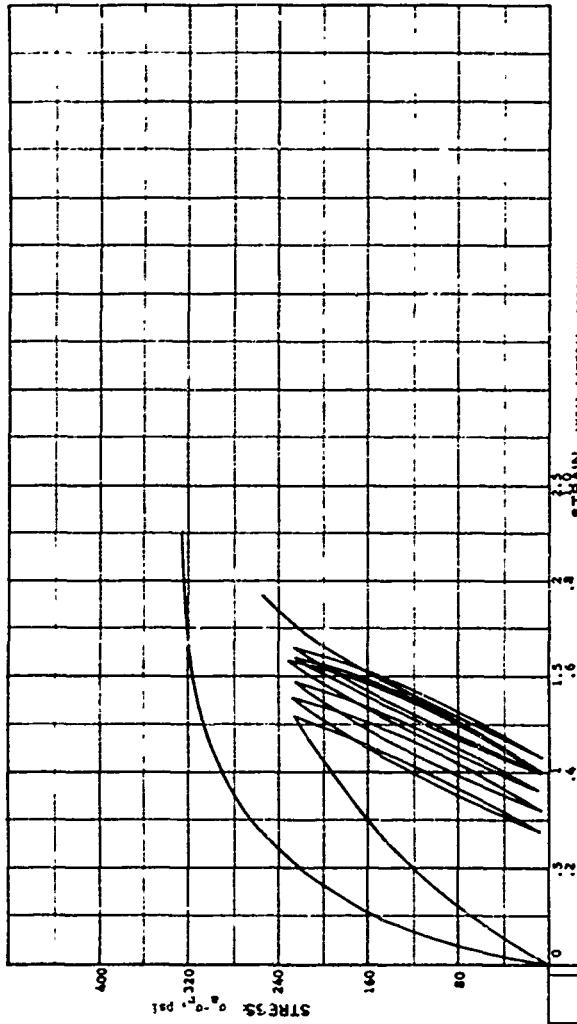
113



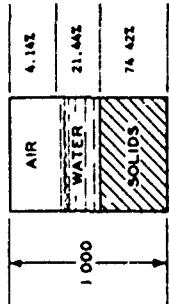
STRAIN, AXIAL-LATERAL, PERCENT

PROJECT	Ge Tech B-9021
Contract No. DMAA9-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 144
DEPTH	DATE
EL	
LL	P.L. 15
	P1 12
DESCRIPTION McConalik Ranch Sand	
Triaxial-Cycle Shear @ 75%	

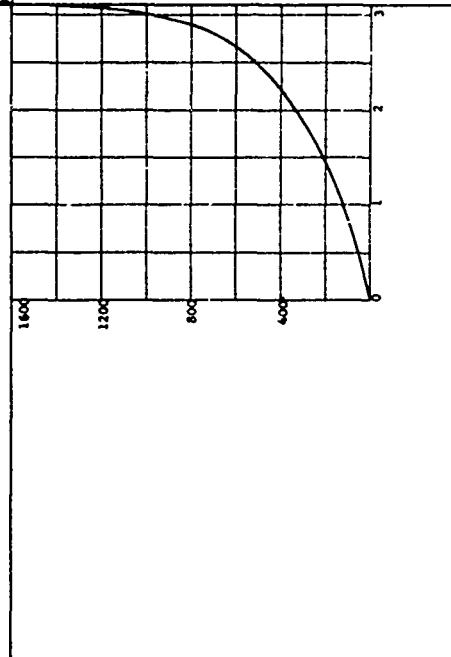
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.79	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	83.80	%
DRY DENSITY	γ_d	123.99	pcf
WET DENSITY	γ	137.36	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.51	cm
SPECIMEN HEIGHT	H_0	7.53	cm



HYDROSTATIC COMPRESSION PHASE



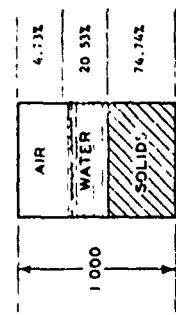
HYDROSTATIC PRESSURE, P , PSI

114

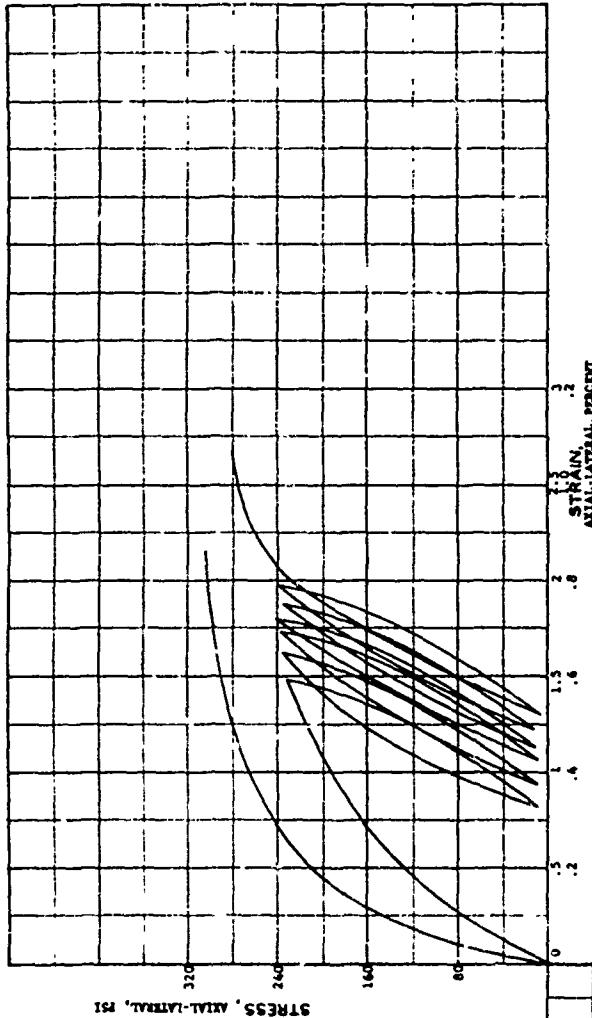
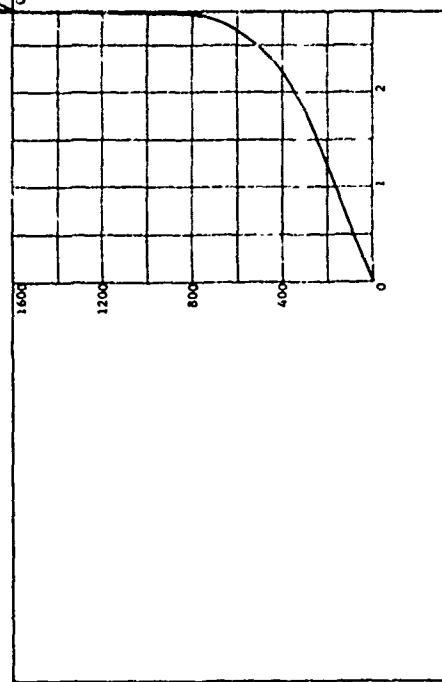
PROJECT	Georgia Institute of Technology		
Contract No. DCA39-67-C-0091			
AREA			
BORING NO.	SAMPLE NO. 102		
DEPTH	DATE		
EL.			
LL	27	PL	15
		PI	12
DESCRIPTION McCormick Marsh Sand			
Triaxial Cycle Shear @ 12%			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

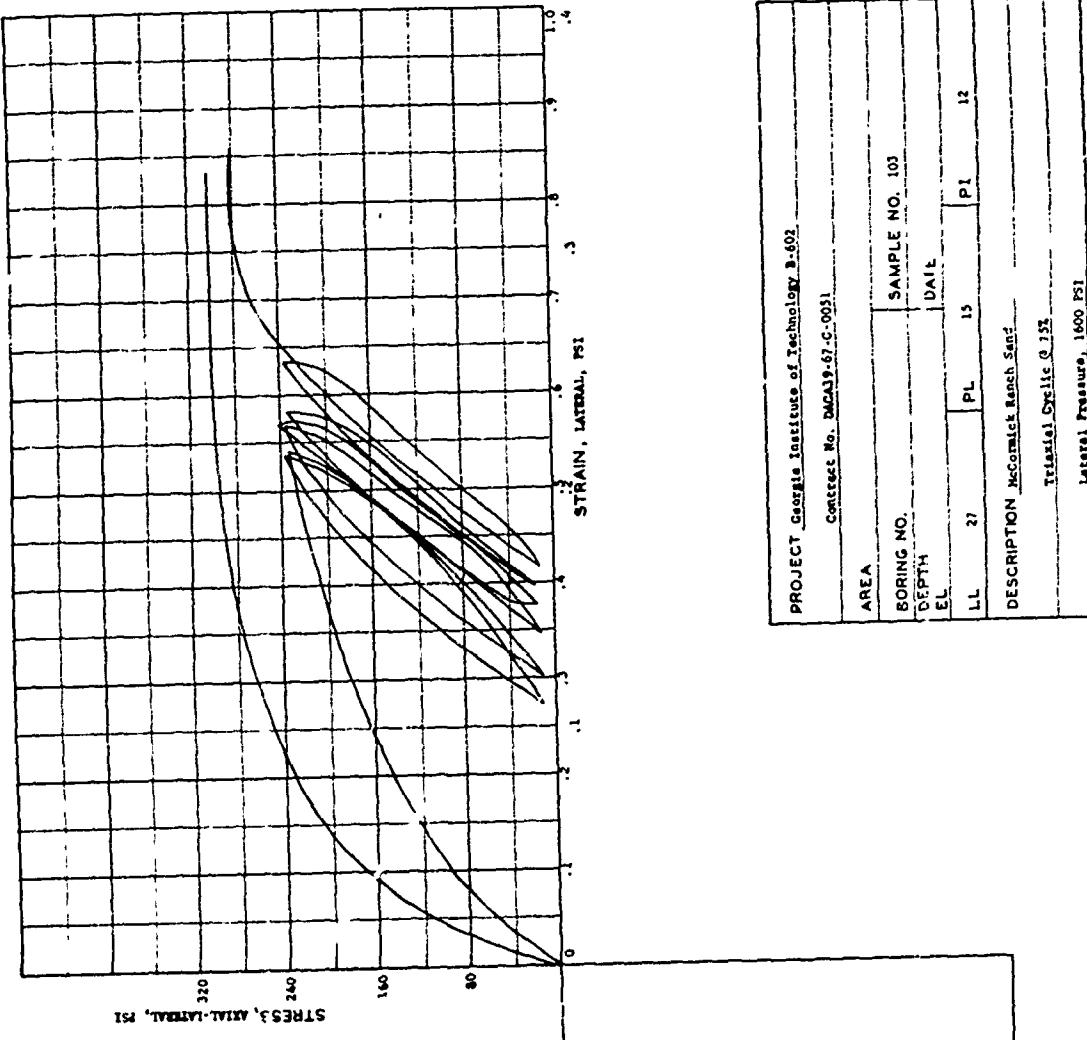
WATER CONTENT	w	10.29 %
VOID RATIO	e ₀	0.36
SATURATION	s ₀	81.29 %
DRY DENSITY	γ_d	124.52 PCF
WET DENSITY	γ_w	137.33 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.33 CM



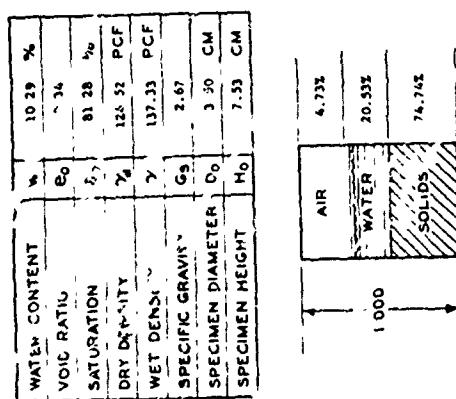
HYDROSTATIC COMPRESSION PHASE



PROJECT: Seagate Institute of Technology, B. 602.		
Contract No. DACA9-67-C-0031		
AREA	SAMPLE NO. 103	DATE
BORING NO.	PL	15
DEPTH EL		12
LL		
DESCRIPTION	McInrick Ranch Sand	
	Triaxial Cyclic @ 75%	
	Lateral Pressure, 1000 psi	

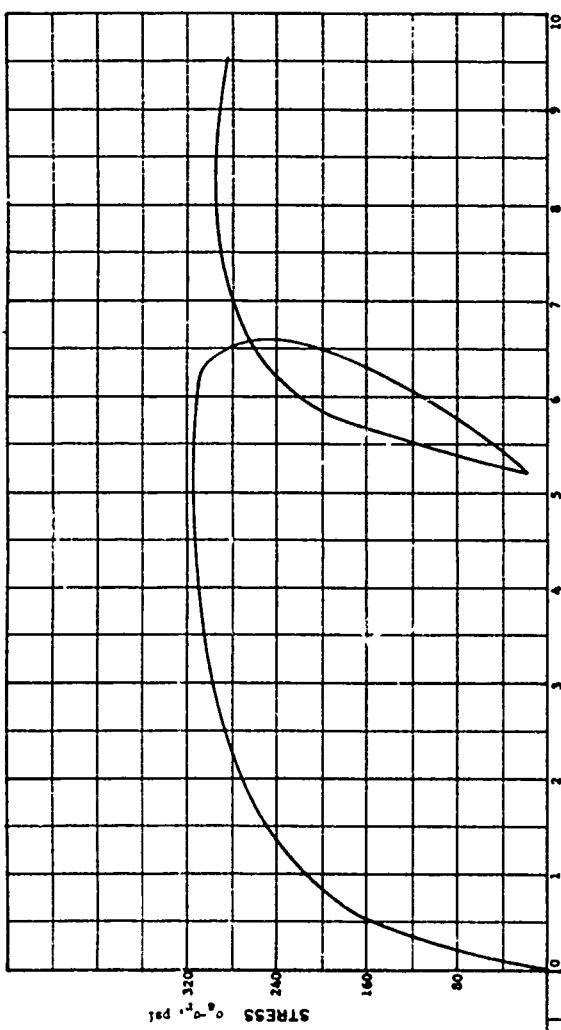
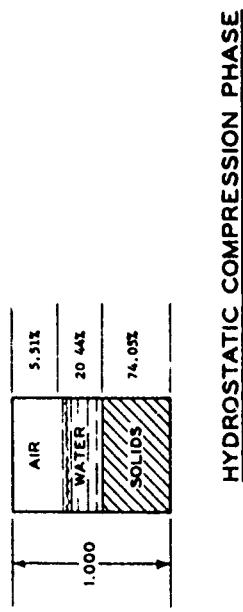


PROJECT <u>Georgia Institute of Technology B-602</u>	
Contract No. DCA39-67-C-0051	
AREA	SAMPLE NO. <u>103</u>
	DEPTH
EL. <u>27</u>	PL. <u>15</u>
LL.	P1. <u>12</u>
DESCRIPTION <u>McCormick Ranch Sand</u>	
Triaxial Strain @ 152	
Lateral Pressure, 1600 PSI	



HYDROSTATIC PRESSURE, P, PSI

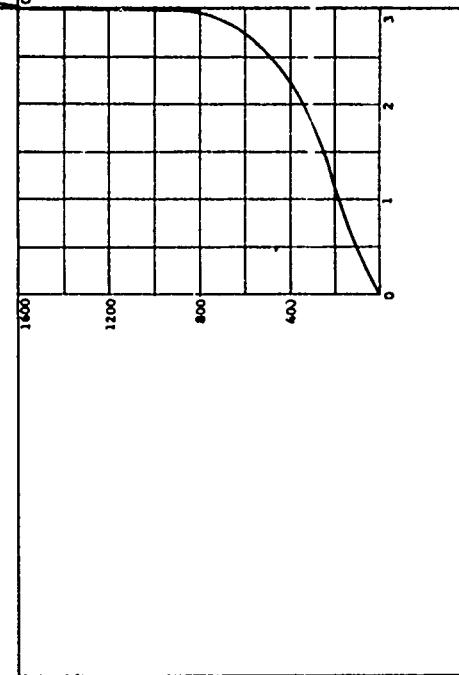
WATER CONTENT	W	10.34 %
VOID RATIO	e ₀	0.35
SATURATION	s ₀	78.78 %
DRY DENSITY	γ_d	123.37 PCF
WET DENSITY	γ	136.13 PCF
— [—] T _c GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.52 CM



HYDROS. ATIC PRESSURE, P, PSI

117

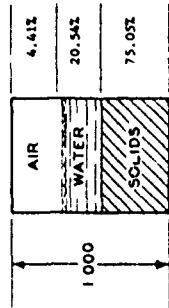
STRAIN : AXIAL-LATERAL, PERCENT



VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

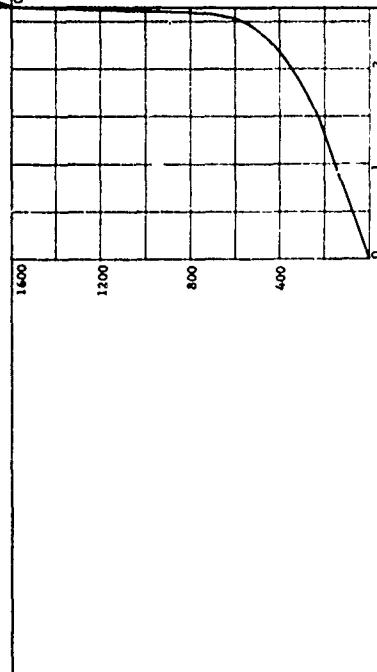
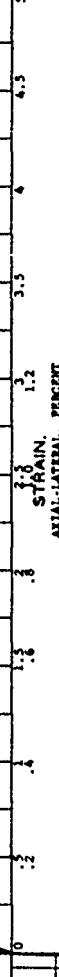
PROJECT: Ge-Tech B-602;	
Contract No. DDCR 9-67-2-0031	
AREA	SAMPLE NO. 140
BORING NO.	DATE
DEPTH EL	
L.L. 27 PL	15 P1 12
DESCRIPTION	Northeast Beach Sand
	Triaxial-Cyclic Shear @ 75%

WATER CONTENT	W	10.25 %
VOID RATIO	e_0	0.33
SATURATION	S_o	82.33 %
DRY DENSITY	γ_d	125.04 PCF
WET DENSITY	γ	137.06 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.55 CM



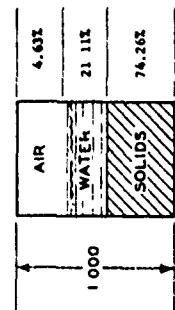
HYDROSTATIC COMPRESSION PHASE

118

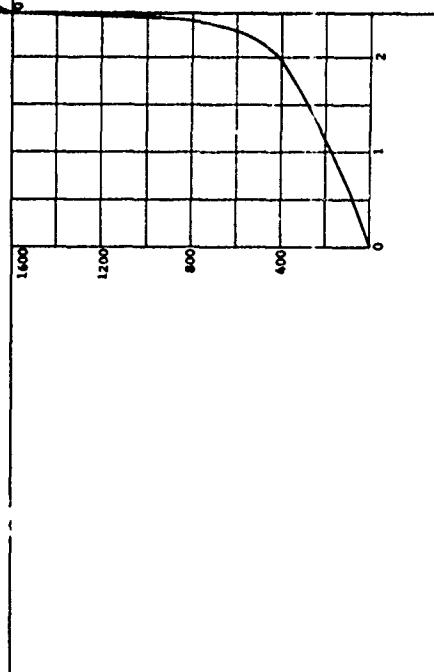


PROJECT	Georgia Institute of Technology B-602		
Contract No.	DACA19-67-C-0051		
AREA			
BORING NO.	SAMPLE NO 141		
DEPTH	DATE		
EL			
LL	PL	15	P1 12
DESCRIPTION McCosh Ranch Sand			
Triaxial-Cycle Shear 2.75%			

WATER CONTENT	W	10.65 %
VOID RATIO	e ₀	0.35
SATURATION	S ₀	82.02 %
DRY DENSITY	γ_d	123.72pcf
WET DENSITY	γ	136.89pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D ₀	3.51 cm
SPECIMEN HEIGHT	H ₀	7.55 cm

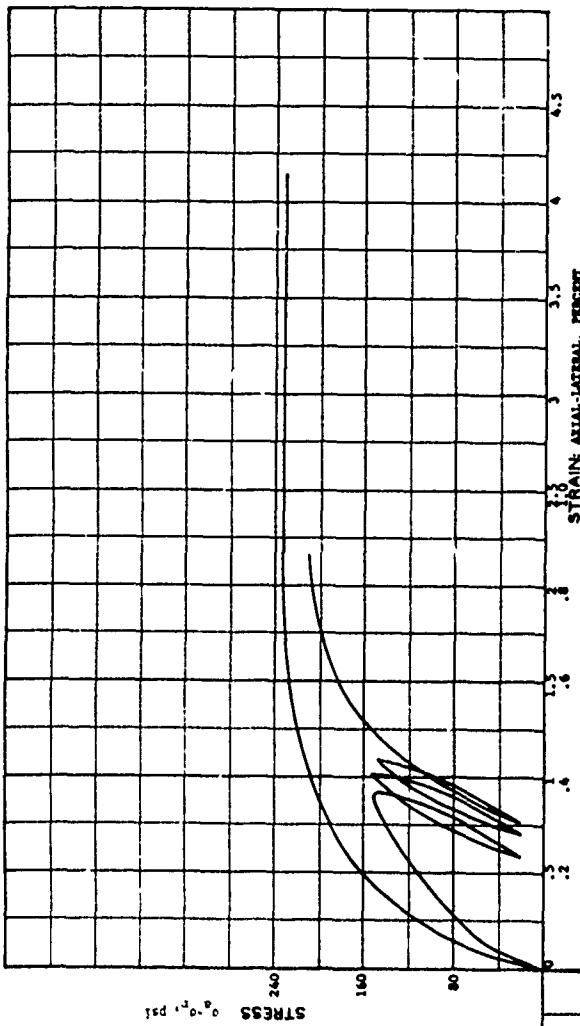


HYDROSTATIC COMPRESSION PHASE



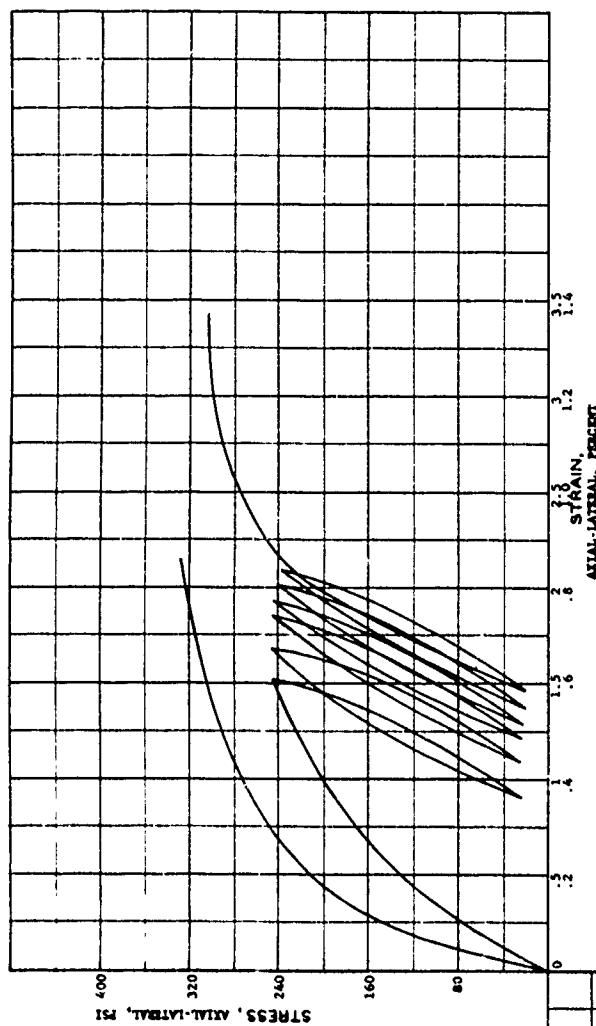
HYDROSTATIC PRESSURE, p, kPa

119



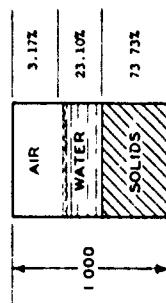
PROJECT	Georgia Institute of Technology I-492		
Contract No.	DACA19-67-C-0031		
AREA			
BORING NO.	SAMPLE NO.	148	
DEPTH			
EL.	DATE		
LL	P.L.	15	P1
			12
DESCRIPTION			
McConieck Ranch Sand			
Triaxial-Cycle Shear @ 75%			

VOLUMETRIC STRAIN, $\delta V/V_0$, PERCENT



STRESS, AXIAL-LATERAL, PSI

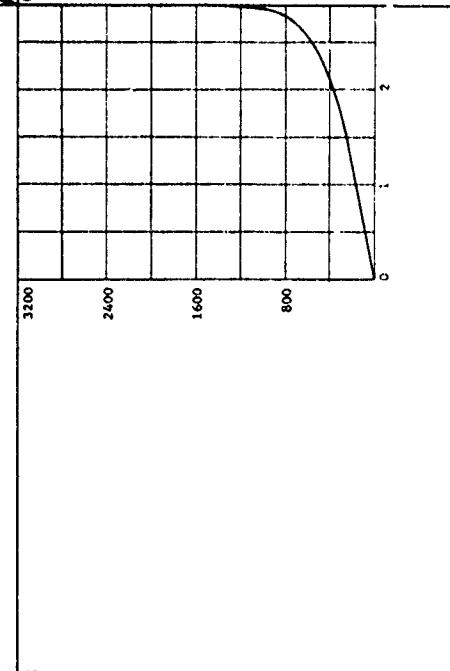
HYDROSTATIC COMPRESSION PHASE



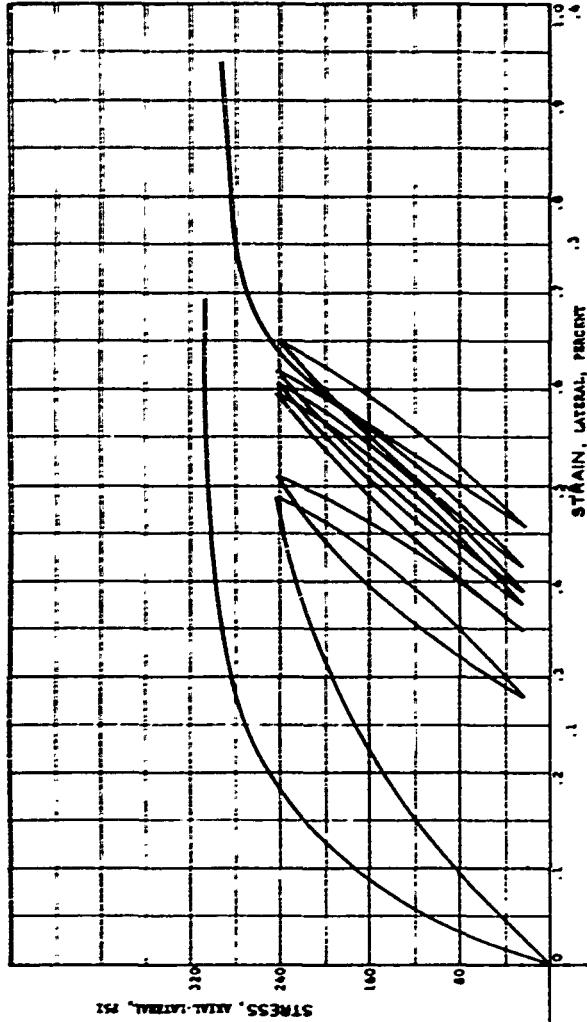
WATER CONTENT	W	11.73 %
VOID RATIO	e_0	0.16
SATURATION	S_0	87.94 %
DRY DENSITY	γ_d	122.85 PCF
WET DENSITY	γ	137.26 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_0	3.51 CM
SPECIMEN HEIGHT	H_0	7.52 CM

120

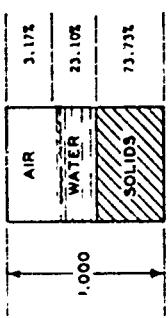
HYDROSTATIC PRESSURE, P , PSI



PROJECT Georgia Institute of Technology S-602	
Contract No. DACA39-67-C-0051	
AREA	
BORING NO	
DEPTH	SAMPLE NO 104
EL	0, 1%
LL	PL 15 P1 12
DESCRIPTION McCormick Ranch Sand	
Triaxial Cyclic @ 75%	
Lateral Pressure, 1200 psi	



WATER CONTENT	11.2%
VOID RATIO	0.35
SATURATION	67.4%
DRY DENSITY	7.0
WET DENSITY	12.13 PCF
SPECIFIC GRAVITY	1.31
SPECIMEN DIAMETER	D ₀ 2.67
SPECIMEN HEIGHT	H ₀ 7.32 CM



HYDROSTATIC COMPRESSION PHASE

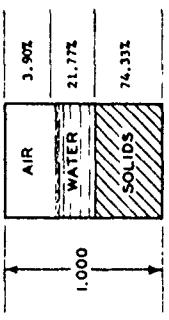
HYDROSTATIC PRESSURE, P, PSI

121

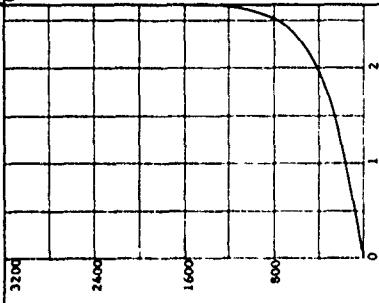
PROJECT Georgia Institute of Technology B-692	
Contract No. DACA39-67-C-0031	
AREA	
BORING NO. DEPTH EL.	SAMPLE NO. 104 DATE
LL 27	PL 15
	PI 12
DESCRIPTION McClellan Ranch Sand	
Transect C-238	
Lateral Pressure, 3200 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.97	%
VOID RATIO	e_0	0.35	
SATURATION	S_o	84.81	%
DRY DENSITY	γ_d	123.83	pcf
WET DENSITY	γ	137.42	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.53	cm

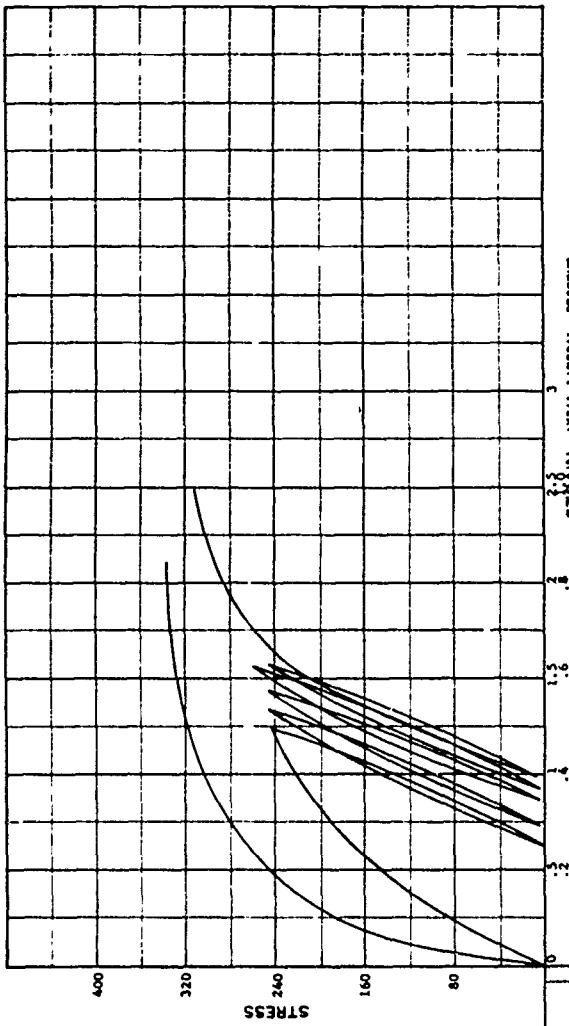


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

122

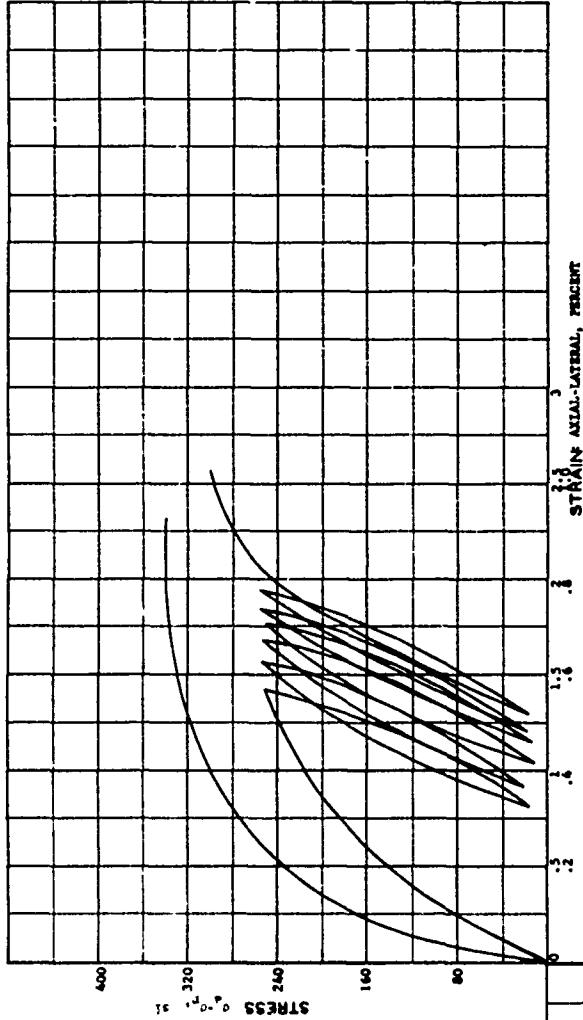
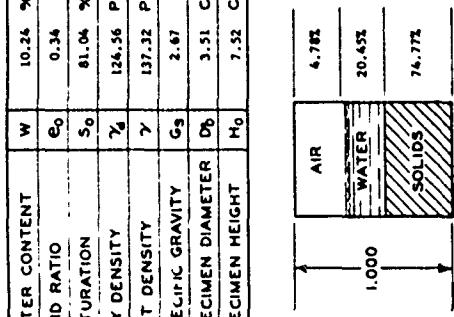


STRAIN - AXIAL-LATERAL, PERCENT

PROJECT Georgia Institute of Technology S-602	
Contact No. DDC-A19-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 103A
DEPTH EL	DATE
LL 27	P.L 15
DESCRIPTION McMichael Ranch Sand	
Triaxial-Cyclic Shear @ 75%	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	w	10.24 %
VOID RATIO	e_0	0.34
SATURATION	S_o	81.04 %
DRY DENSITY	γ_d	126.56 PCF
WET DENSITY	γ	137.32 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_b	3.51 CM
SPECIMEN HEIGHT	H_0	7.52 CM

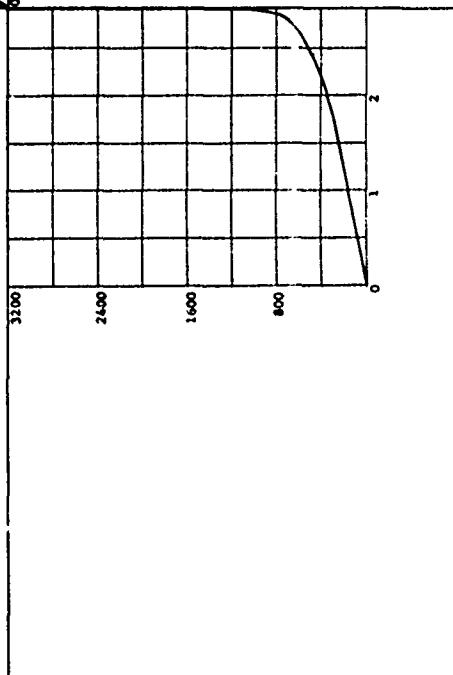


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P , PSI

123

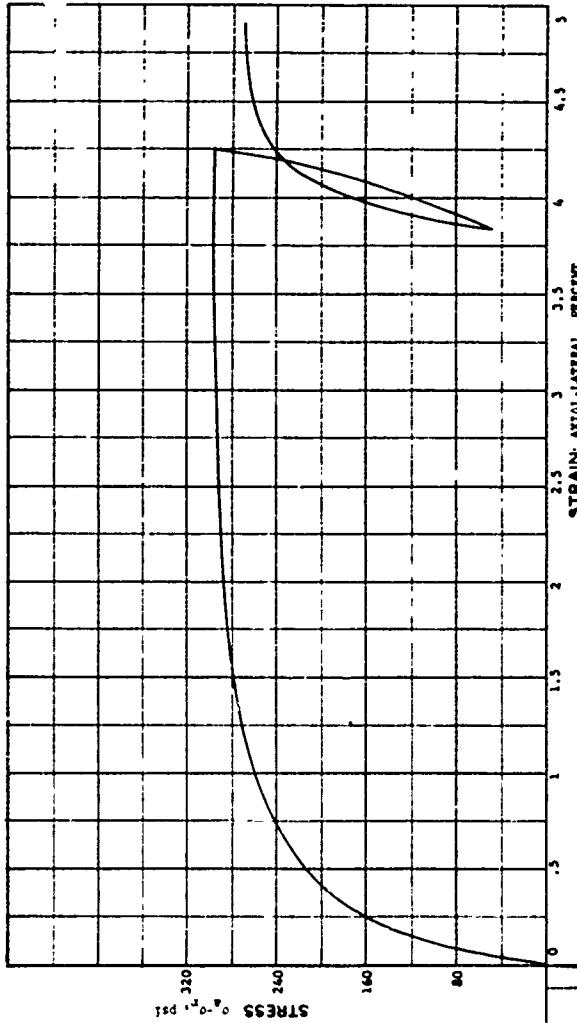
STRAIN AXIAL-LATERAL, PERCENT



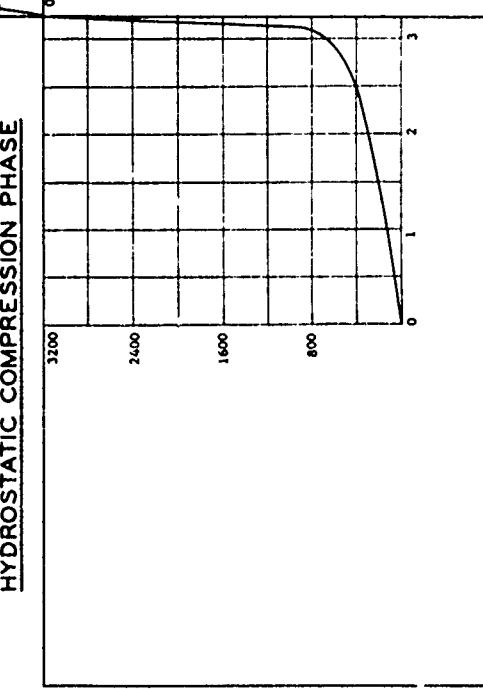
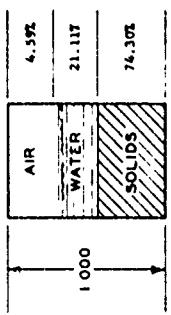
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Georgia Institute of Technology 8-602
Contract No.	DACAS9-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 1058
DEPTH	DATE
EL	
LL	PL 15 P1 12
DESCRIPTION	McCormick Ranch Sand
	Triaxial-Cycle Shear @ 75%

WATER CONTENT	W	10.64 %
VOID RATIO	e_0	0.35
SATURATION	S_o	82.15 %
DRY DENSITY	γ_d	123.80pcf
WET DENSITY	γ	136.97pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.52 CM



HYDROSTATIC COMPRESSION PHASE

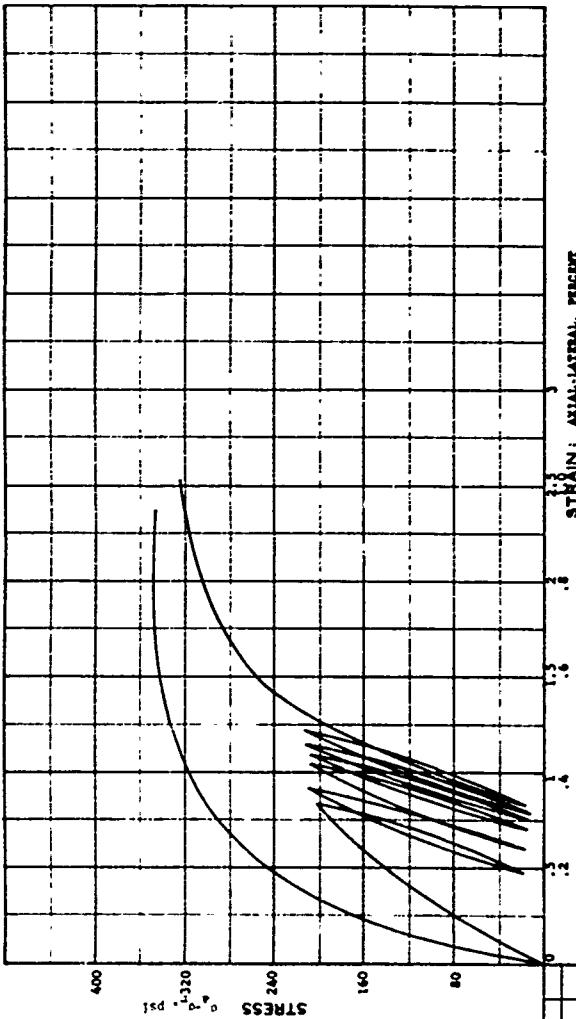
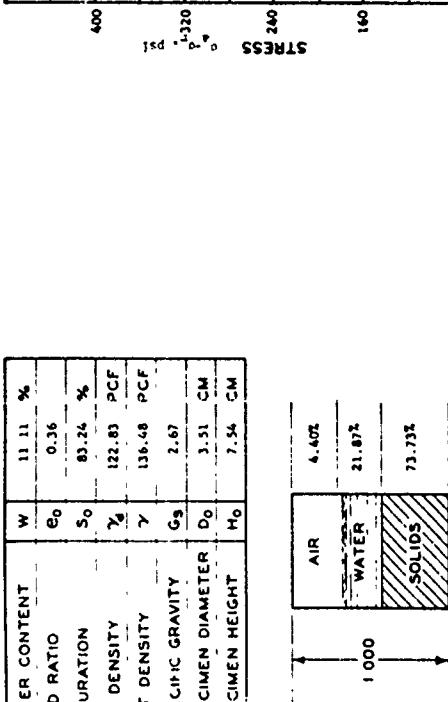


124

PROJECT Gorilla Institute of Technology B-102	
Contract No. PAGA9-616-9021	
AREA	
BORING NO.	SAMPLE NO. 137
DEPTH EL.	DATE
LL	PL 15 P1 12
DESCRIPTION McCorle Ranch Sand	
Triaxial-Cyclic Shear 2 75%	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

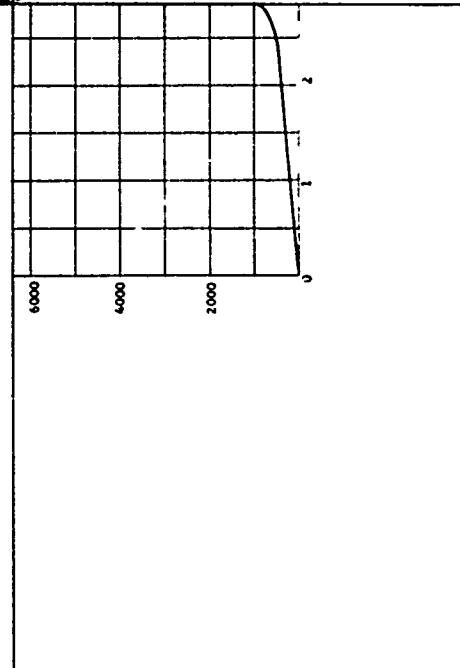
WATER CONTENT	W	11.11 %
VOID RATIO	e ₀	0.36
SATURATION	s ₀	93.74 %
DRY DENSITY	γ_d	122.83pcf
WET DENSITY	γ	136.48pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 cm
SPECIMEN HEIGHT	H ₀	7.54 cm



HYDROSTATIC PRESSURE, P, PSI

125

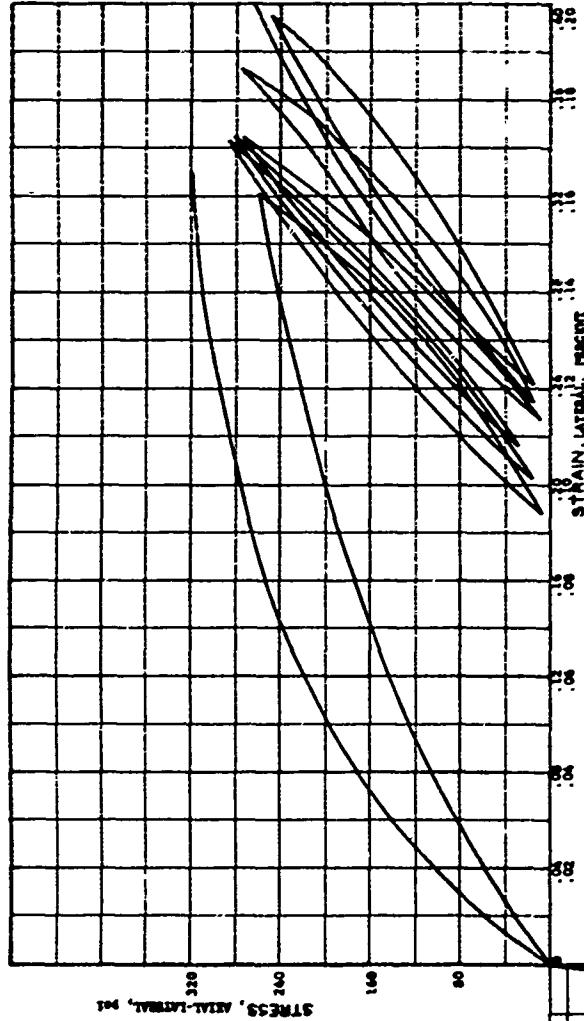
STRAIN: AXIAL-LATERAL, PERCENT



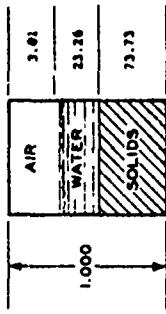
VOLUMETRIC STRAIN, $\Delta V / V_0$, PERCENT

PROJECT - Geotechnical Institute of Technology, L.A. 602	
Contract No. DMCA9-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 80
DEPTH	DATE
EL	
LL	PL 13 P1 12
DESCRIPTION: McCutchan Ranch Sand	
Triaxial Cycle Shear Q 75%	

WATER CONTENT	W	11.82 %
VOID RATIO	e_0	0.36
SATURATION	S_0	88.35 %
DRY DENSITY	γ_d	122.04pcf
WET DENSITY	γ	137.36pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.31 cm
SPECIMEN HEIGHT	H_o	7.55 cm

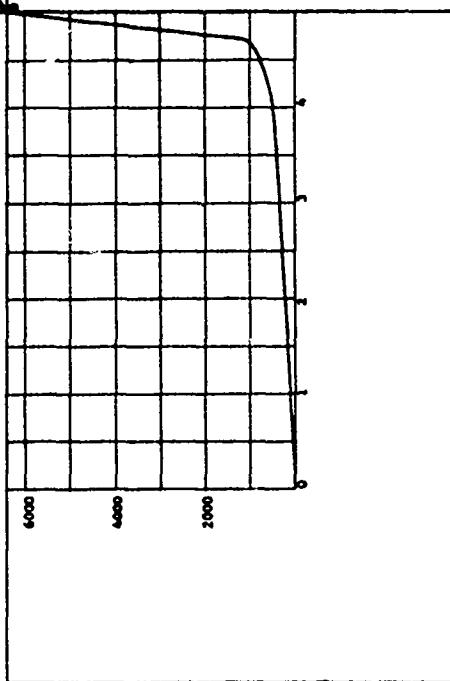


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

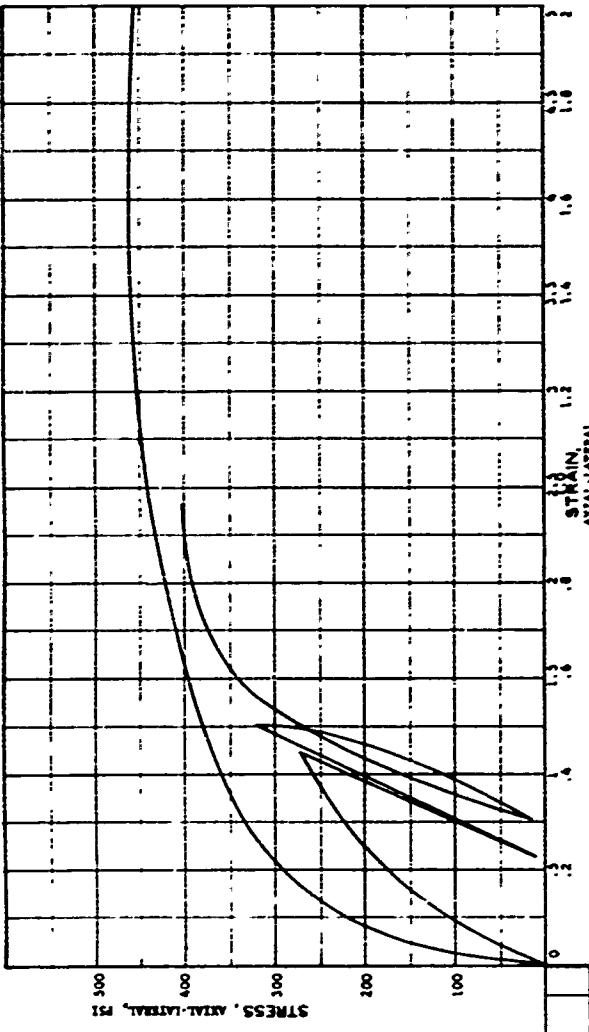
126



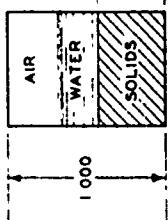
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT: <i>Geotextile Evaluation of Test Results, B-692.</i>	
Contract No. <u>DMARD-915-0921</u>	
AREA	SAMPLE NO. <u>02</u>
BORING NO.	DATE
DEPTH EL	
L.L.	P.L. <u>13</u> P1 <u>12</u>
DESCRIPTION: <i>McGinnis Ranch Sand</i>	
Triaxial Cycle No. <u>53</u>	
Lateral Pressure, 400 psi	

WATER CONTENT	W	10.53 %
VOID RATIO	e ₀	0.35
SATURATION	s ₀	61.03 %
DRY DENSITY	γ_d	123.70 PCF
WET DENSITY	γ	136.72 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.55 CM

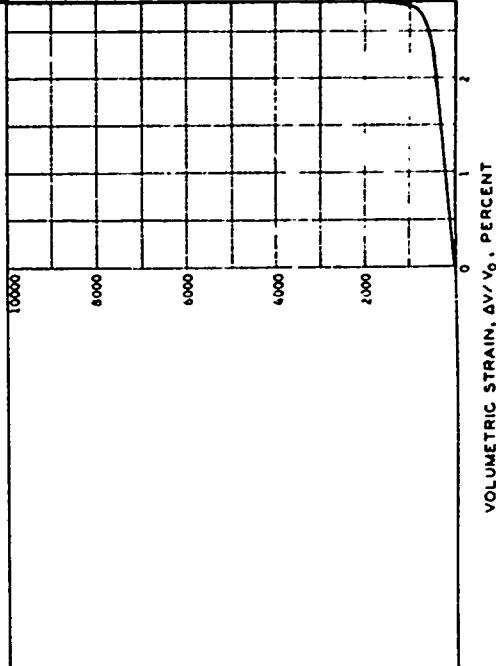


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

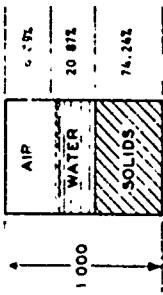
127



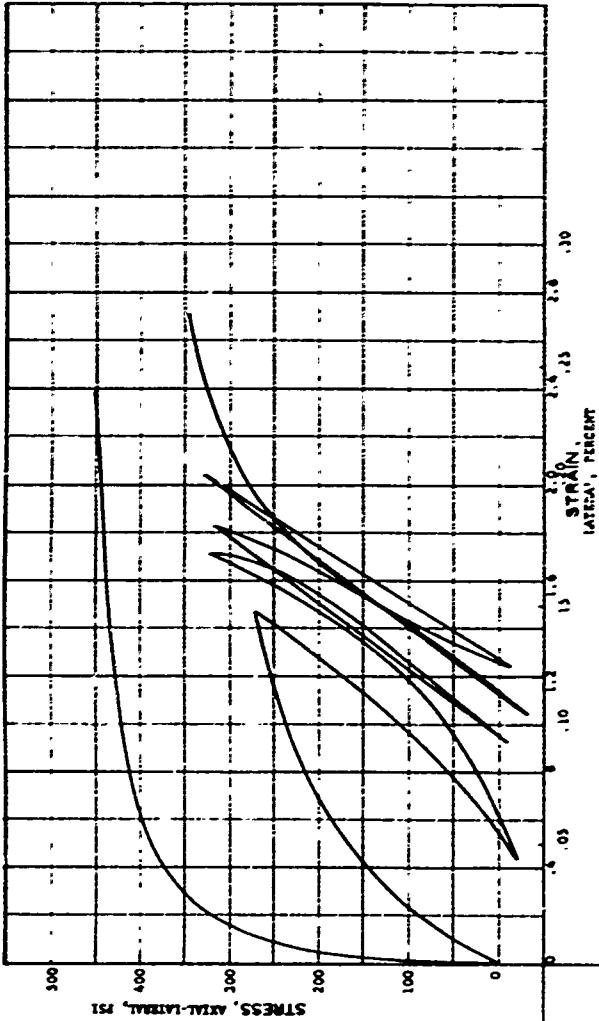
VOLUMETRIC STRAIN, AV/V₀, PERCENT

PROJECT: Seville Mallorca et Jardines de la Costa del Sol					
Contract No. 000009 01-06-1982					
AREA	SAMPLE NO. 16				
		BORING NO.			
DEPTH	DATE				
		L.L.	P.L.	PL	LS
DESCRIPTION: Medium Beach Sand					
Triaxial Cycle 3/35					
Initial Pressure: 10,000 psi					

WATER CONTENT	W	10.53 %
VOID RATIO	e_0	0.35
SATURATION	S_o	41.03 %
DRY DENSITY	γ_d	123.70 Pcf
WET DENSITY	γ	136.72 Pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	2.51 cm
SPECIMEN HEIGHT	H_o	7.55 cm



HYDROSTATIC COMPRESSION PHASE



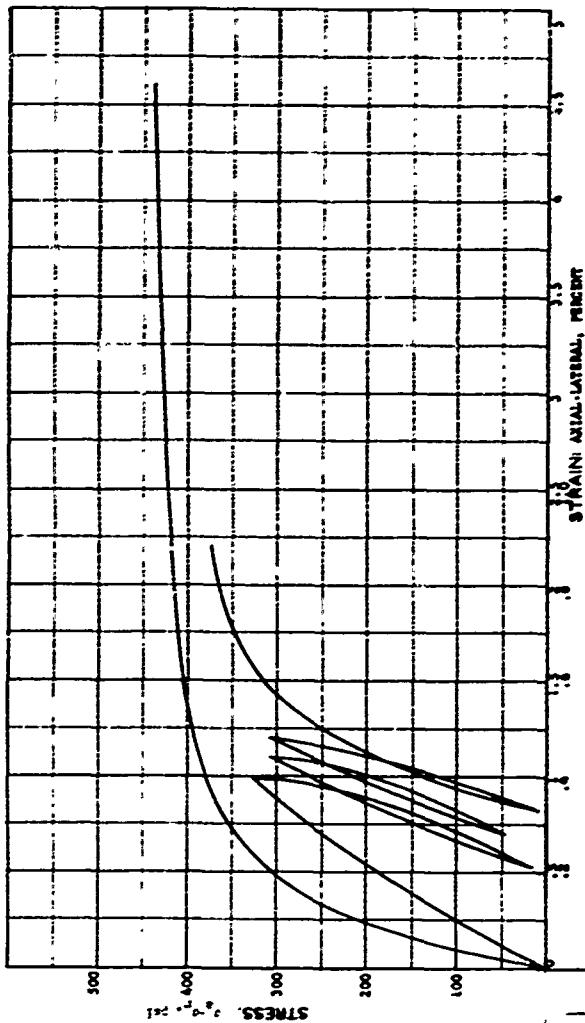
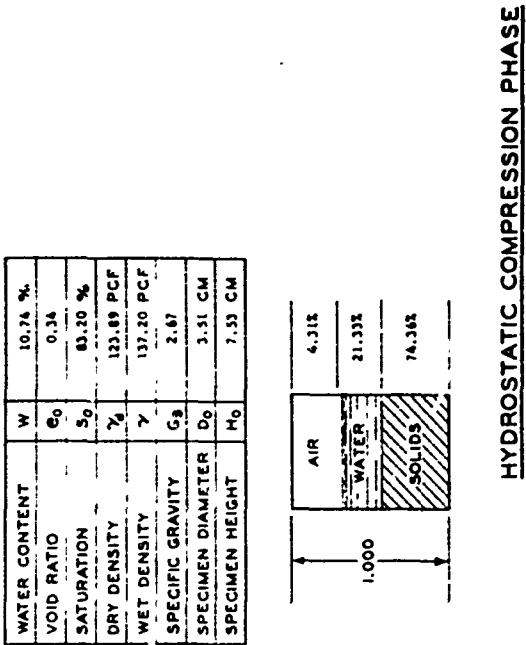
HYDROSTATIC PRESSURE, P, PSI

128

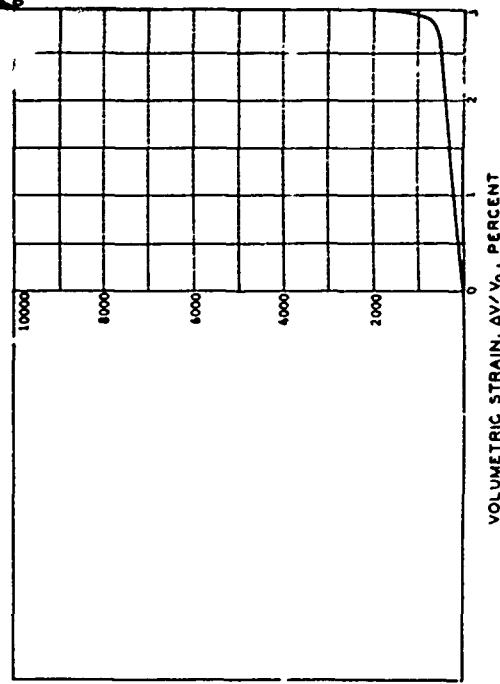
PROJECT Georgia Institute of Technology B-102	
Contract No. DACA19-67-C-0031	
AREA	SAMPLE NO. 16
	DATE
BORING NO.	P.L.
DEPTH, EL.	13
LL	PL
DESCRIPTION Horseshoe Ranch, Band 1	
Triaxial Cyclic at 1% Lateral Pressure, 10,000 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

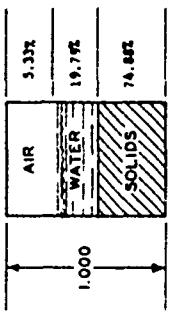
WATER CONTENT	W	10.74 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	83.20 %
DRY DENSITY	γ_d	123.89 PCF
WET DENSITY	γ	137.20 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.53 CM



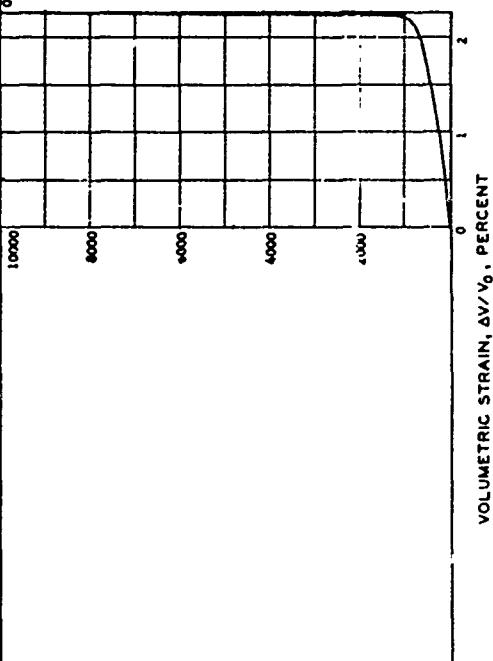
PROJECT	Georgia Institute of Technology B-102
Contract No.	MACA9107-C-0081
AREA	
BORING NO.	SAMPLE NO. 18
DEPTH EL.	DATE
ft.	PL 13 12
DESCRIPTION	Incipient Shear Band
	Tricalcylite Phase 0.25%



WATER CONTENT	W	9.90	%
VOID RATIO	e_0	0.33	
SATURATION	S_0	74.76	%
DRY DENSITY	γ_d	126.76	pcf
WET DENSITY	γ	137.11	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.54	cm

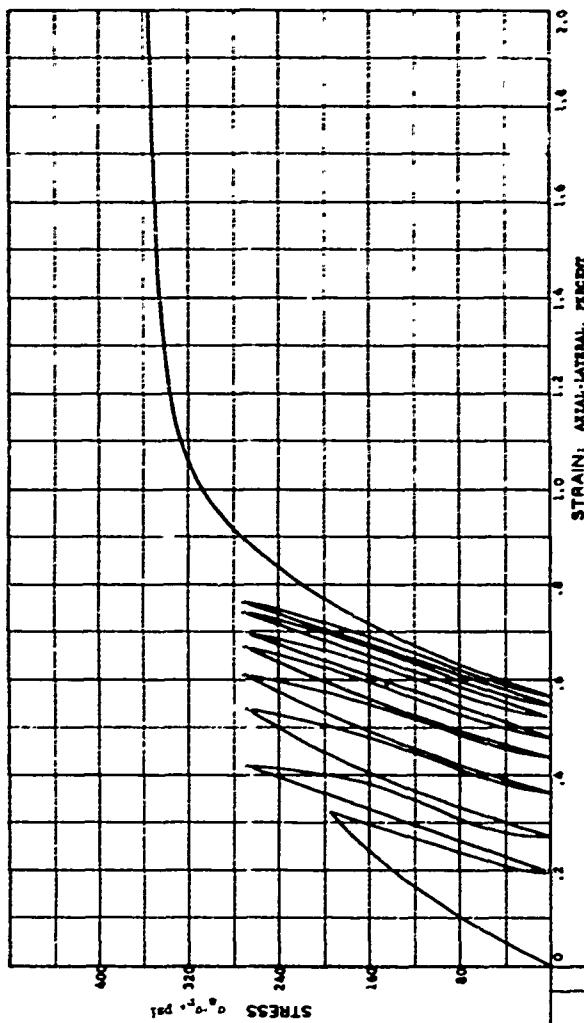


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

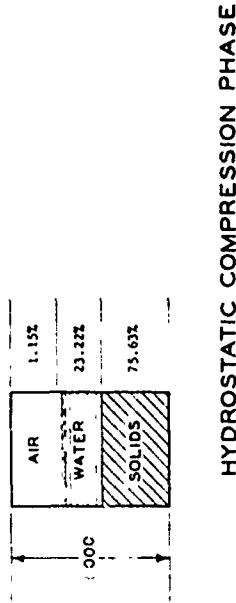
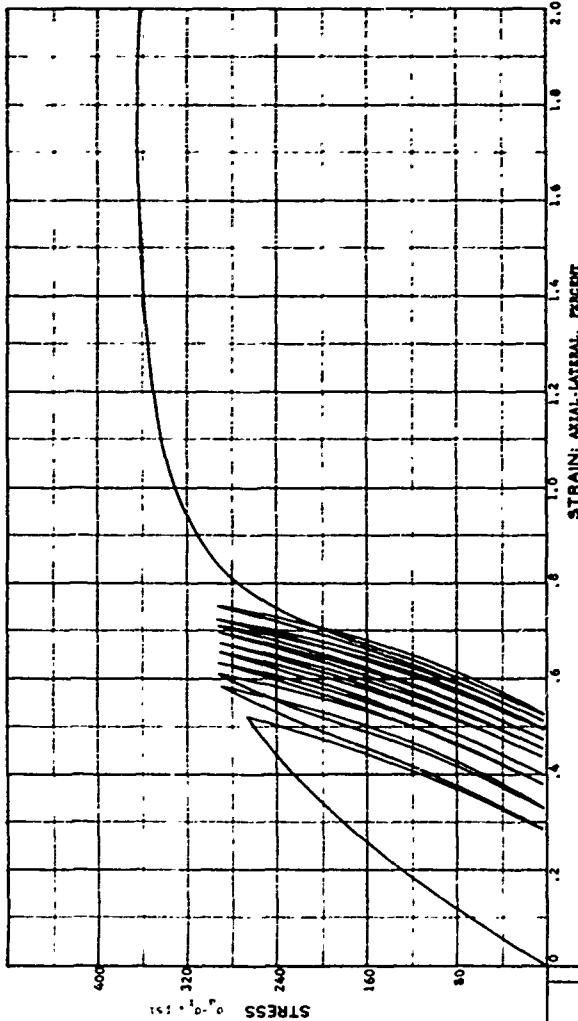
130



STRAIN AXIAL-LATERAL, PERCENT

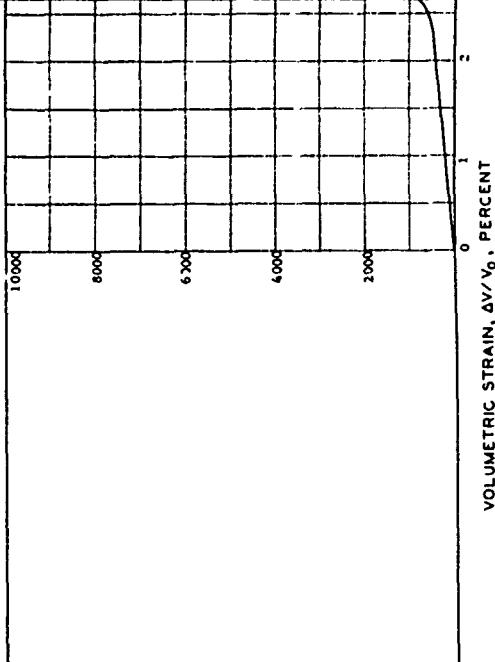
PROJECT	Georgia Institute of Technology		
Contract No.	DACA74-65-C-0031		
AREA			
BORING NO.	SAMPLE NO. 19		
DEPTH EL.	DATE		
LL	27	PL	P1
DESCRIPTION Hesdorffer Ranch, Sand			
TRANSMISSION CYLINDER, G 152			

WATER CONTENT	W	11.50	%
VOID RATIO	e_0	0.32	
SATURATION	s_o	95.31	%
DRY DENSITY	γ_d	126.01	PCF
WET DENSITY	γ	140.50	PCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.47	CM
SPECIMEN HEIGHT	H_o	7.34	CM



HYDROSTATIC PRESSURE, P, PSI

131



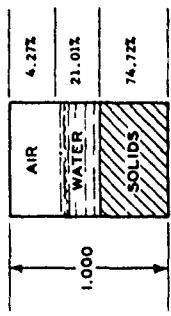
PROJECT	Seaplane Institute of Technology, A.M.A.	
Contract No. DA-319-67-6-0031		
AREA		
BORING NO.	SAMPLE NO. 81	
DEPTH	DATE	
EL.		
LL	27	PL
	15	P1
		I2
DESCRIPTION	McConalik Ranch Sand	
Tetrahedral Cycle, Sheet 3 75		

Group D

Constant Ratio Tests

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WATER CONTENT	W	10.53	%
VOID RATIO	e_0	0.34	
SATURATION	S_0	85.11	%
DRY DENSITY	γ_d	126.48	pcf
WET DENSITY	γ	137.60	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	CM
SPECIMEN HEIGHT	H_0	7.32	CM

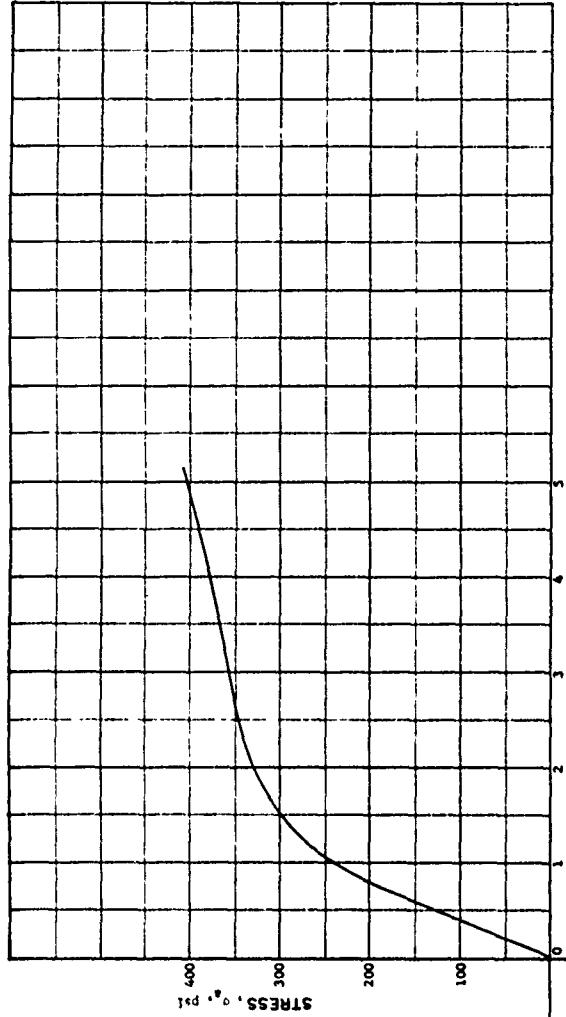


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

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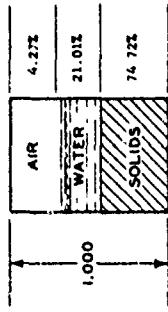
135



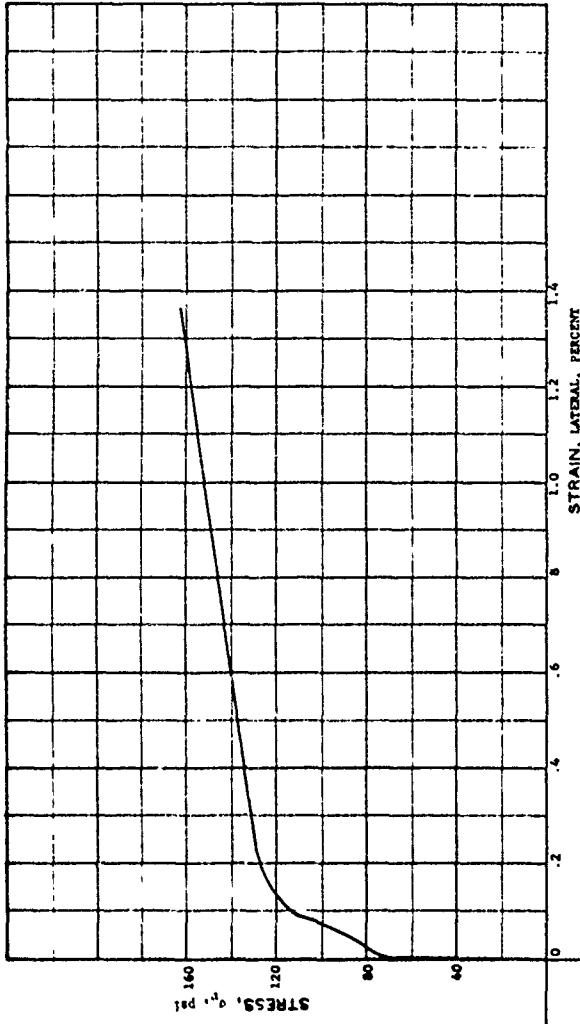
PROJECT	Geotech B-602,	
Contract No.	DACA39-67-C-0031	
AREA		
BORING NO.	SAMPLE NO	138
DEPTH EL	DATE	
LL 27	PL 15	P1 12
DESCRIPTION McConick Ranch Sand		
Constant Stress Ratio, 0.4		
Initial Pressure, 0 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.53	%
VOID RATIO	e_0	0.34	
SATURATION	S_g	63.11	%
DRY DENSITY	γ_d	126.48	pcf
WET DENSITY	γ	131.60	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.52	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

136

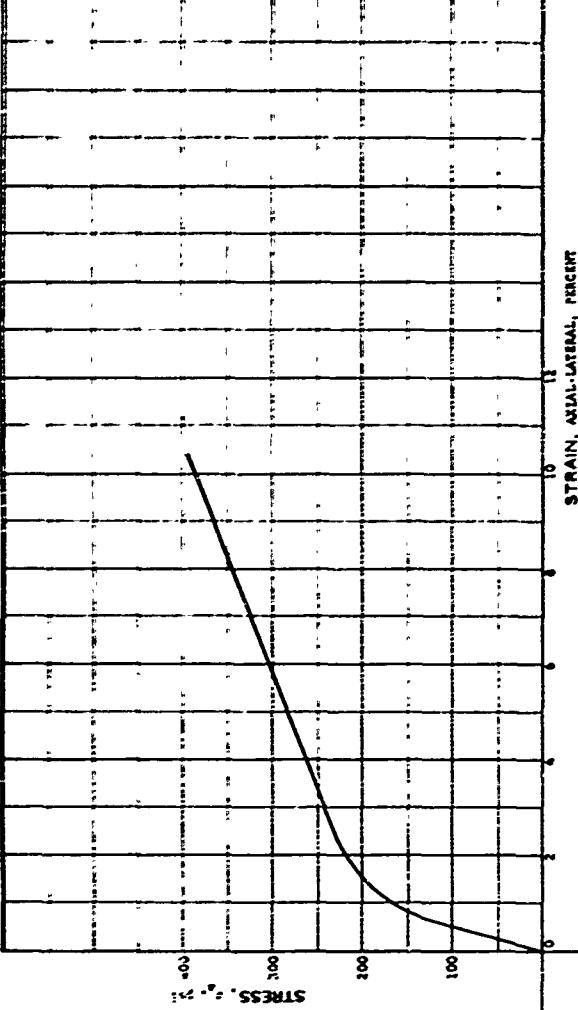
PROJECT	Ga Tech A-692.		
Contract No. DACA19-67-C-0051			
AREA	SAMPLE NO. 159		
BORING NO.	DATE		
DEPTH			
EL.			
L.L.	P.L.	I.S.	P.I.
27			12

DESCRIPTION McCormick Ranch Sand

Constant Stress Ratio, 0.4

Initial Pressure, 0 psi

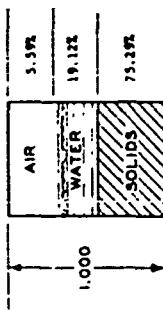
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



STRAIN, AXIAL-LATERAL, PERCENT

H' DROSTATIC COMPRESSION PHASE

WATER CONTENT	W	0.31	%
VOID RATIO	e ₀	0.33	
SATURATION	s ₀	77.35	%
DRY DENSITY	γ _d	135.43	pcf
WET DENSITY	γ	137.37	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.30	cm
SPECIMEN HEIGHT	H ₀	7.53	cm

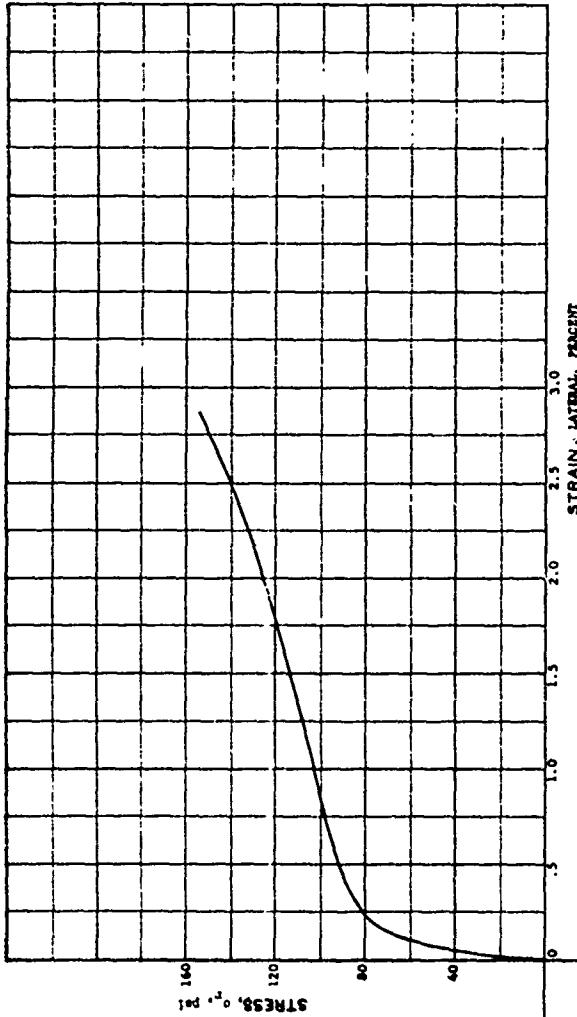


HYDROSTATIC PRESSURE, P, PSI

137

PROJECT	Geotech B-4021
SPOTTEST NO.	246A92-A1-C-9031
AREA	
BORING NO.	SAMPLE NO. 1W
DEPTH	DATE
EL.	
LL.	PL 15 Pt 12
DESCRIPTION McClellan Ranch, San Joaquin Valley	
Constant Stress Ratio...0.4	
Initial Pressure, 0.1atm	

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

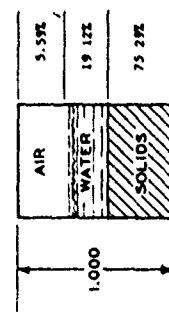


STRESS, σ , psi

STRAIN, LATERAL, PERCENT

HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	9.51	%
VOID RATIO	e_0	0.33	
SATURATION	S_o	77.35	%
DRY DENSITY	γ_d	125.45	pcf
WET DENSITY	γ	137.37	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	3.50	cm



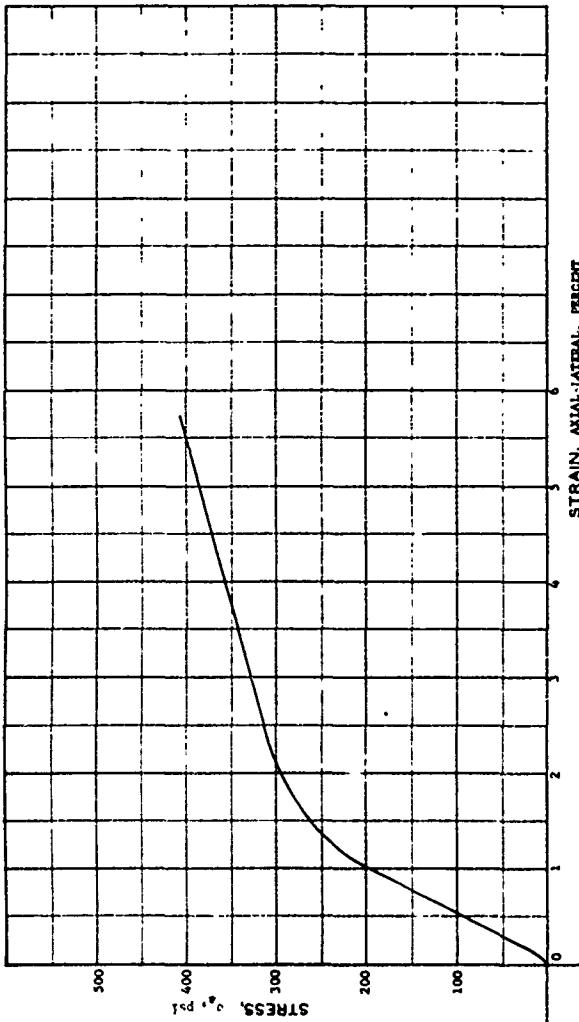
HYDROSTATIC PRESSURE, P , psi

138

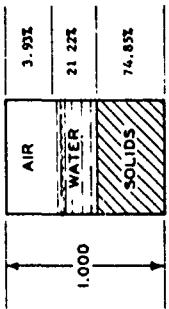
PROJECT	Da Tech B-602.
Contract No.	DACAR2-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 161
DEPTH	DATE
EL	
LL	PL 15 P1 12
DESCRIPTION McCarrick Ranch Sand	
Constant Stress Ratio, 0.6	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.62	%
VOID RATIO	e_0	0.36	
SATURATION	S_0	84.37	%
DRY DENSITY	γ_d	124.70	pcf
WET DENSITY	γ	137.94	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_0	3.49	cm
SPECIMEN HEIGHT	H_0	7.56	cm



HYDROSTATIC COMPRESSION PHASE



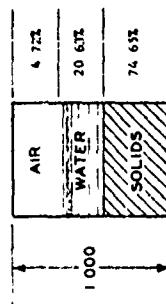
HYDROSTATIC PRESSURE, p , PSI

139

PROJECT	Ge Tech B-6021
Contract No.	DACAR9-67-0-0051
AREA	
BORING NO	SAMPLE NO. 102
DEPTH	DATE
EL.	
LL	PL 15
	PL 12
DESCRIPTION H-Gorawisk Ranch Sand	
Constant stress Ratio, 0.4; Initial reservoir, 0.81	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

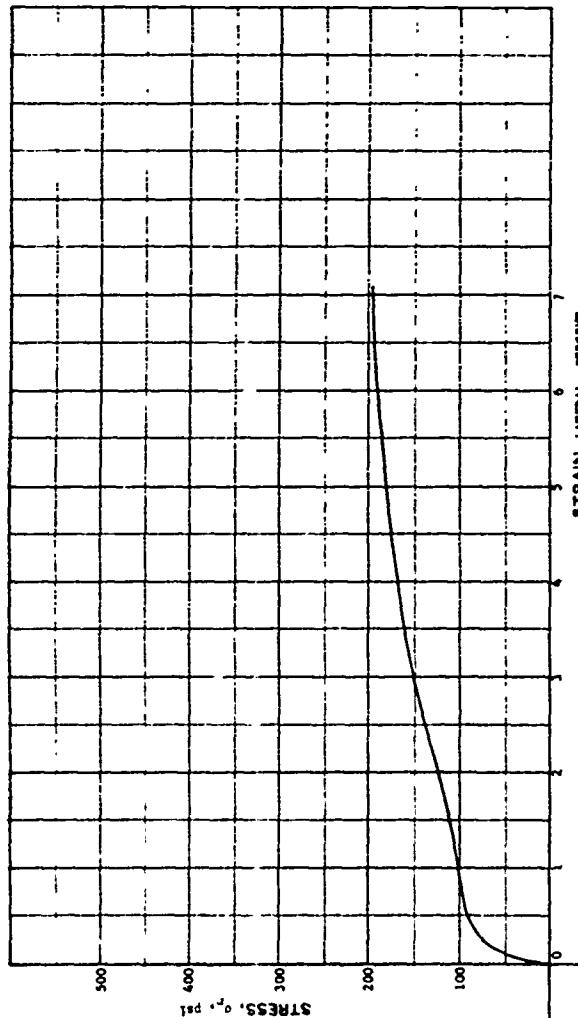
WATER CONTENT	W	10.35	%
VOID RATIO	e_0	0.34	
SATURATION	S_0	81.37	%
DRY DENSITY	γ_d	126.37	pcf
WET DENSITY	γ'	137.24	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.54	cm



HYDROSTATIC COMPRESSION PHASE

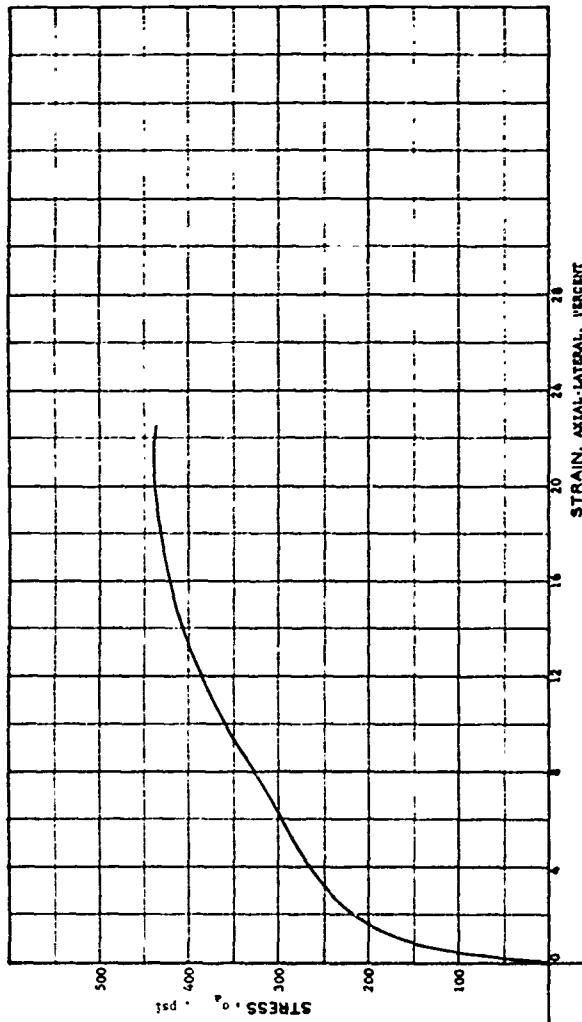
HYDROSTATIC PRESSURE, P, PSI

140



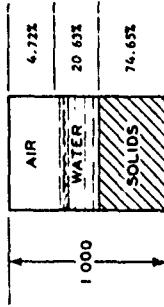
PROJECT	Ga. Tech. B-001				
Contract No.	RACAA9-62-G-001A				
AREA					
BORING NO.					
DEPTH					
EL.					
SAMPLE NO. 164					
DATE					
LL	27	PL	15	P1	12
DESCRIPTION McCormick Ranch Sand					
Constant Stress Ratio, 0.4					
Initial Pressure, 0 psi					

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



STRAIN, AXIAL-LATERAL, PERCENT

WATER CONTENT	W	10.35	%
VOID RATIO	e_0	0.34	
SATURATION	S_o	81.37	%
DRY DENSITY	γ_d	124.37	pcf
WET DENSITY	γ	137.26	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.34	cm



HYDROSTATIC COMPRESSION PHASE

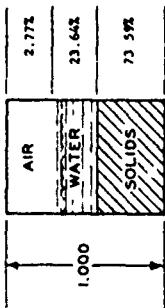
HYDROSTATIC PRESSURE, P, PSI

141

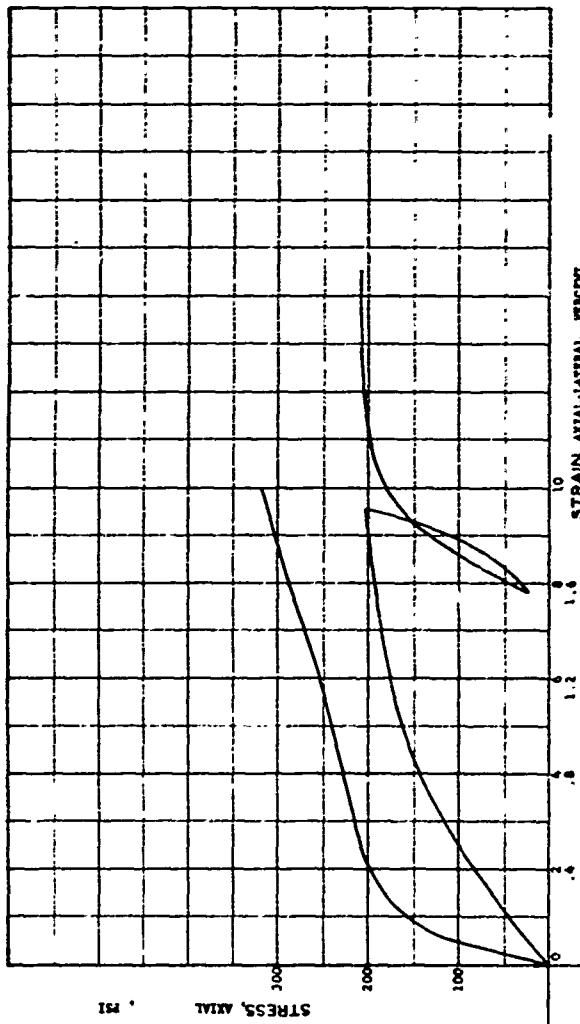
PROJECT	On Tech 8-402
Contract No. DAGAS-87-C-0031	
AREA	
BORING NO.	SAMPLE NO. 14
DEPTH	DATE
EL	
LL	PL 15
	PL 12
DESCRIPTION McCormick Ranch Sand	
Content Stres Ratio, 0.4	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.03	%
VOID RATIO	e _o	0.36	
SATURATION	S _o	89.49	%
DRY DENSITY	γ_d	122.60	pcf
WET DENSITY	γ'	137.35	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.50	cm
SPECIMEN HEIGHT	H _o	7.53	cm



HYDROSTATIC COMPRESSION PHASE



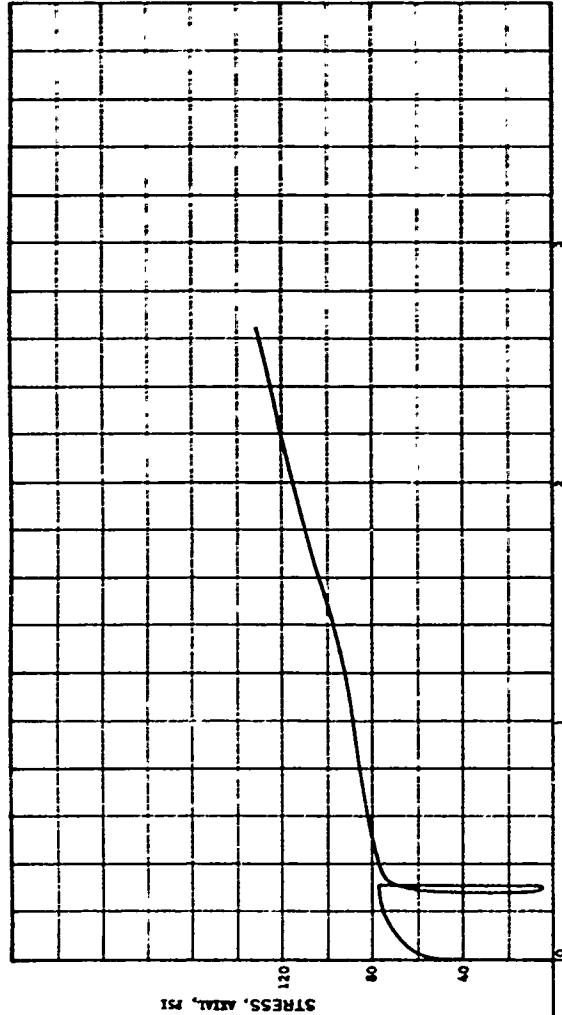
HYDROSTATIC PRESSURE, P, PSI

142

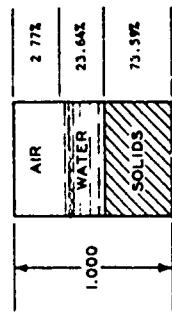
PROJECT	Geotech B-402
CONTRACT NO.	DAAG29-67-C-0031
AREA	SAMPLE NO. 107
BORING NO.	DATE
DEPTH	
EL.	
LL.	PL. 13
	P1 17
DESCRIPTION	McNichols Ranch Sand
	Constant Stress Ratio, 0.4
	Initial Pressure, 0 psi

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.00	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	89.49	%
DRY DENSITY	γ_d	122.60	pcf
WET DENSITY	γ'	137.35	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.33	cm



HYDROSTATIC COMPRESSION PHASE



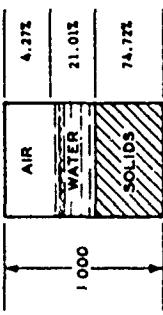
HYDROSTATIC PRESSURE, P, PSI

143

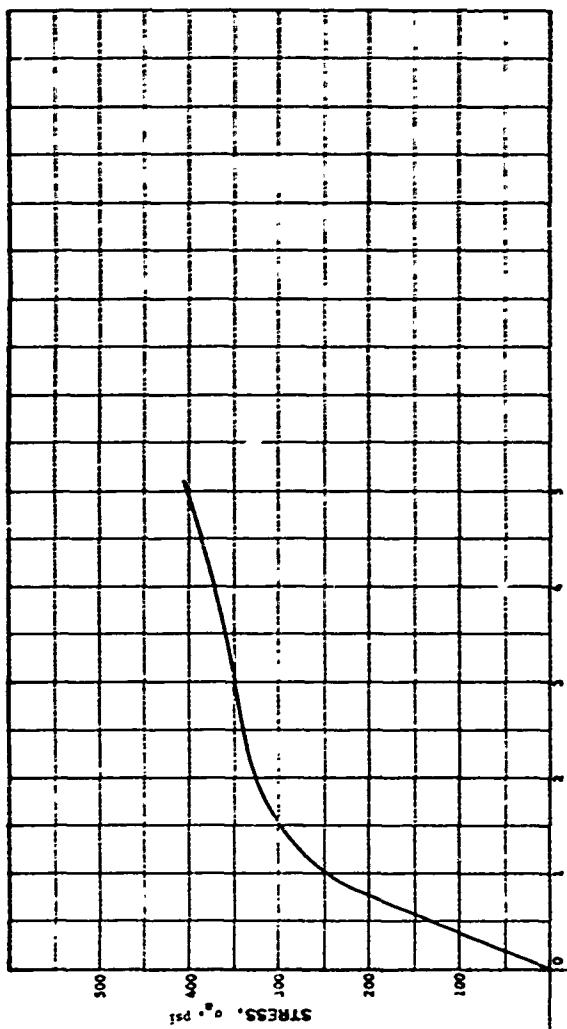
PROJECT	Geotechnical Test
Core Test No.	MC-23-01-0021
AREA	
BORING NO.	SAMPLE NO. 161
DEPTH	DATE
EL.	
LL	PL 15 Pl 17
DESCRIPTION: McGehee Beach Sand	
Constant stress ratio, 0.4	
Initial pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.53	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	63.11	%
DRY DENSITY	γ_d	126.48	pcf
WET DENSITY	γ	137.40	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.52	cm



HYDROSTATIC COMPRESSION PHASE



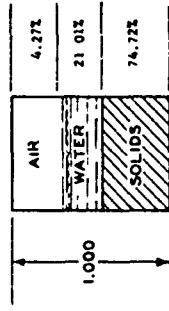
HYDROSTATIC PRESSURE, P, PSI

144

PROJECT	De Tech 1, 6021
LOCATION	McGinnis Rd., Atlanta, GA 30331
AREA	
BORING NO.	SAMPLE NO. 14
DEPTH EL.	DATE
LL	PL
DESCRIPTION INCLINATION, Depth 344 ft.	
Constant Stress Ratio: 0.4	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

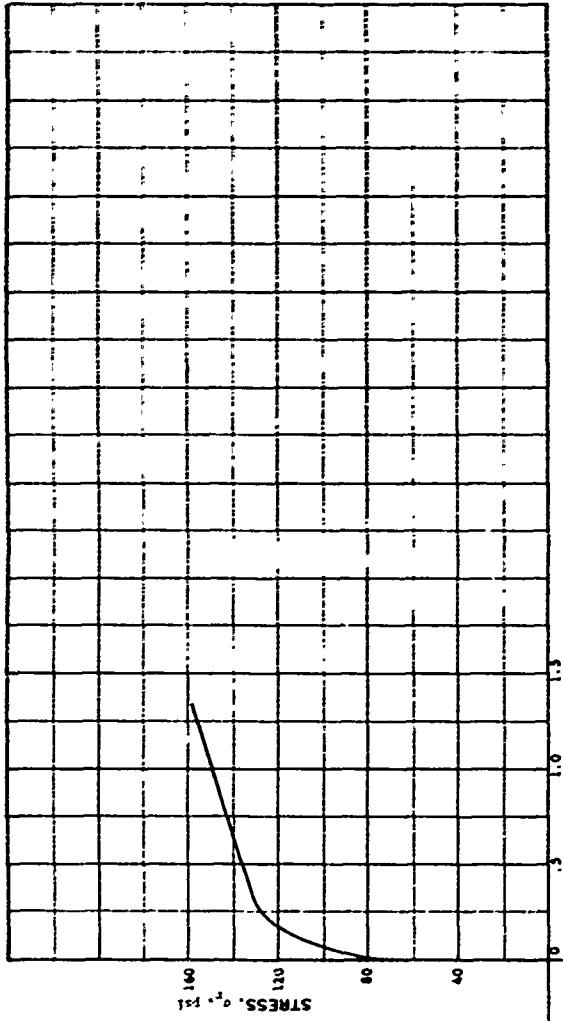
WATER CONTENT	W	10.53	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	63.11	%
DRY DENSITY	γ_d	126.48	FCF
WET DENSITY	γ	131.60	FCF
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.50	CM
SPECIMEN HEIGHT	H_o	7.32	CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

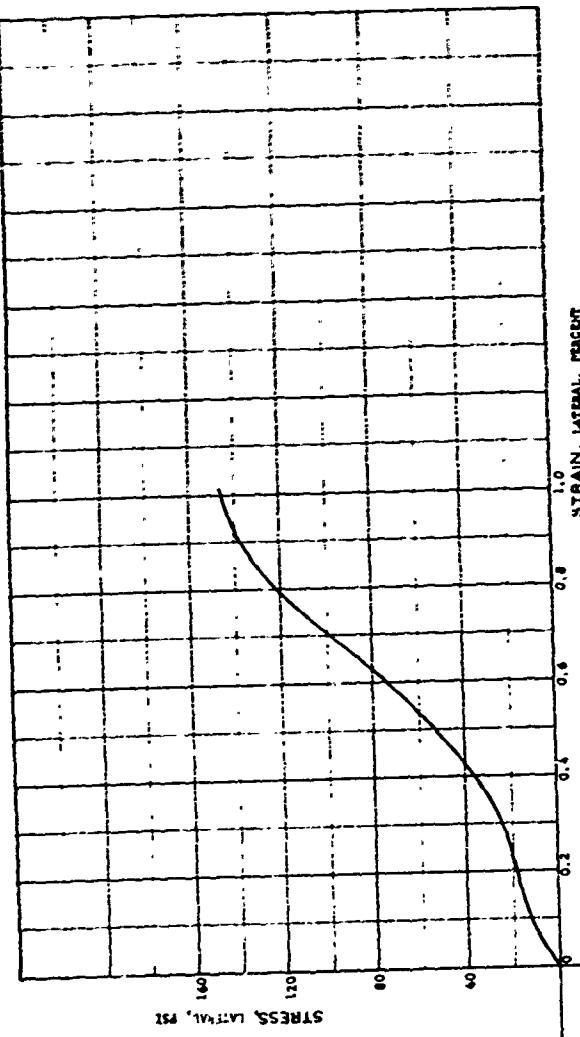
145



PROJECT	On 10th B-101
SAMPLE NO.	PCB-30-N.G.001
AREA	
BORING NO.	14
DEPTH EL.	
LL	27
PL	13
PI	11

DESCRIPTION: McMurchie, North Sand
Constant Stress Ratio, 0.4
Initial Measure, 0 psi

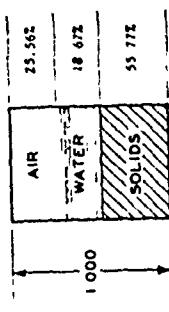
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



STRESS, LATERAL, psi

HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	12.40 %
VOID RATIO	e_0	0.79
SATURATION	S_o	42.21 %
DRY DENSITY	γ_d	93.94pcf
WET DENSITY	γ	105.61pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.60 cm



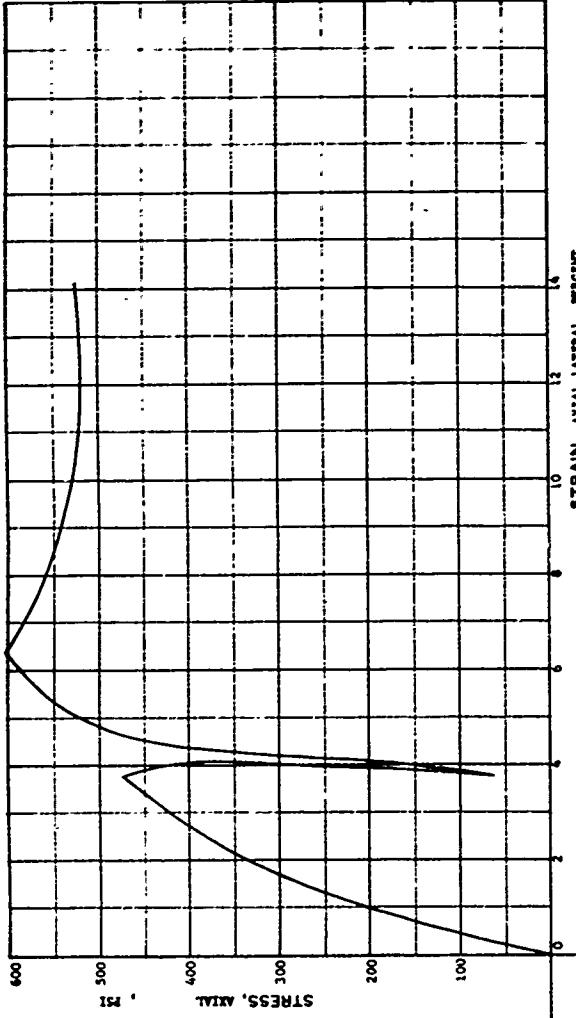
HYDROSTATIC PRESSURE, P , PSI

146

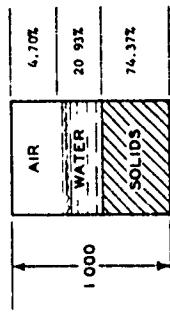
PROJECT	QA Tech B-1921
BOREhole No.	DA-CA-31-027-G-0031
AREA	
SAMPLE NO.	103
BORING NO.	
DEPTH	
E.L.	
DATE	
LL	16
PL	11
PL	10

DESCRIPTION - Wetting Hall Effect -
Constant Stress Ratio, 0.4
Initial Pressure, 100 psi

WATER CONTENT	W	10.54 %
VOID RATIO	e_0	0.34
SATURATION	S_o	81.65 %
DRY DENSITY	γ_d	123.89pcf
WET DENSITY	γ	136.96pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	1.51 cm
SPECIMEN HEIGHT	H_o	7.53 cm



HYDROSTATIC COMPRESSION PHASE



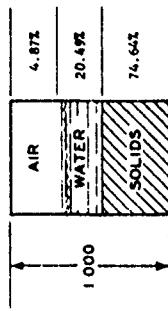
HYDROSTATIC PRESSURE, P, PSI

147

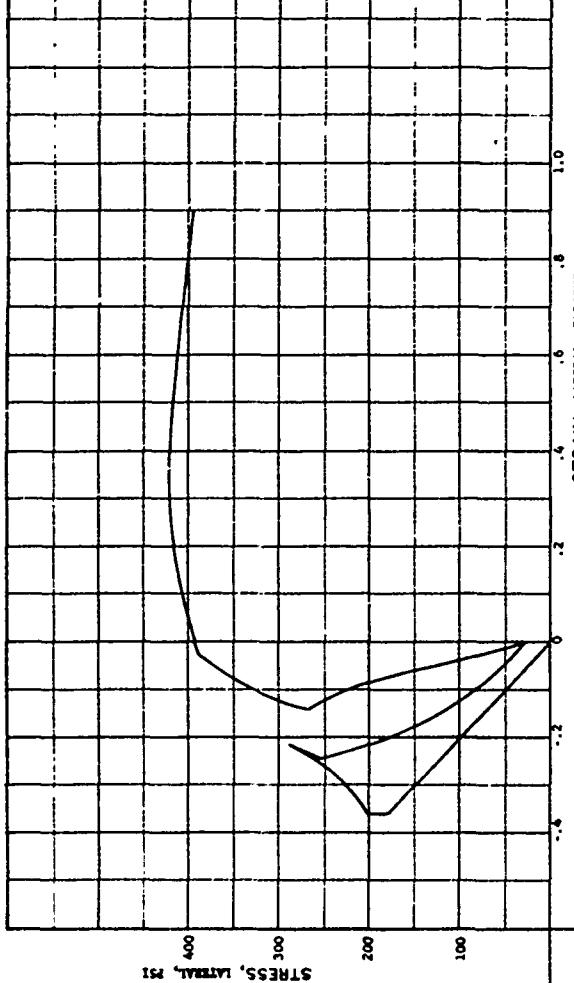
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	94 Test B-601		
Contract No.	DACA39-67-C-0051		
AREA			
BORING NO.	SAMPLE NO. 181		
DEPTH EL.	PL	15	P1
LL 27			12
DESCRIPTION: McCormick Ranch Sand			
Constant Stress Ratio, 0.61, Initial Pressure, 0.01			
Cycle Shear 375°			

WATER CONTENT	W	10.28 %
VOID RATIO	e ₀	0.34
SATURATION	S _o	80.79 %
DRY DENSITY	γ_d	126.36 PCF
WET DENSITY	γ'	137.14 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.53 CM



HYDROSTATIC COMPRESSION PHASE



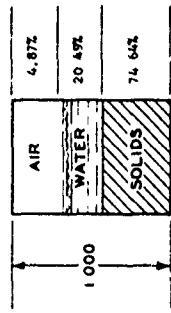
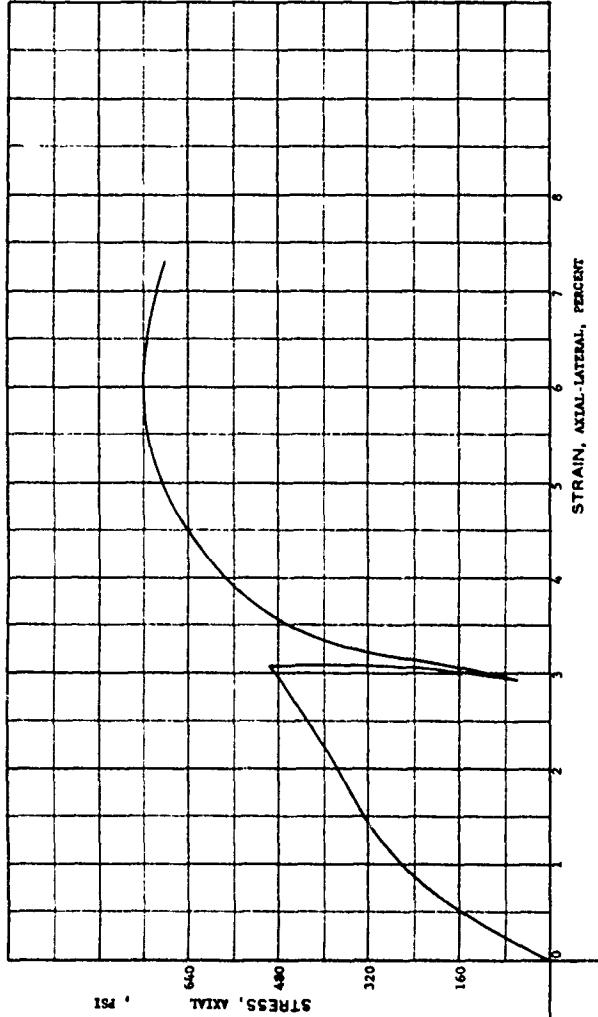
HYDROSTATIC PRESSURE, P, PSI

148

PROJECT	Ge Tech B-602:
Contract No. DACA39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 182
DEPTH	DATE
EL.	
LL.	PL. 15 P1 12
DESCRIPTION McCormick Ranch Sand	
Constant Stress Ratio, 0.6; Initial Pressure, 0. Del	
Cycle Shear Q.35	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.22 %
VOID RATIO	e_0	0.34
SATURATION	S_o	80.79 %
DRY DENSITY	γ_d	124.36 Pcf
WET DENSITY	γ	137.14 Pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 cm
SPECIMEN HEIGHT	H_o	7.53 cm



HYDROSTATIC COMPRESSION PHASE

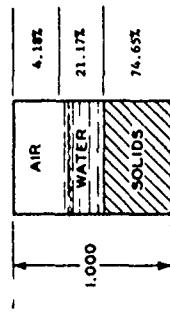
HYDROSTATIC PRESSURE, P, PSI

149

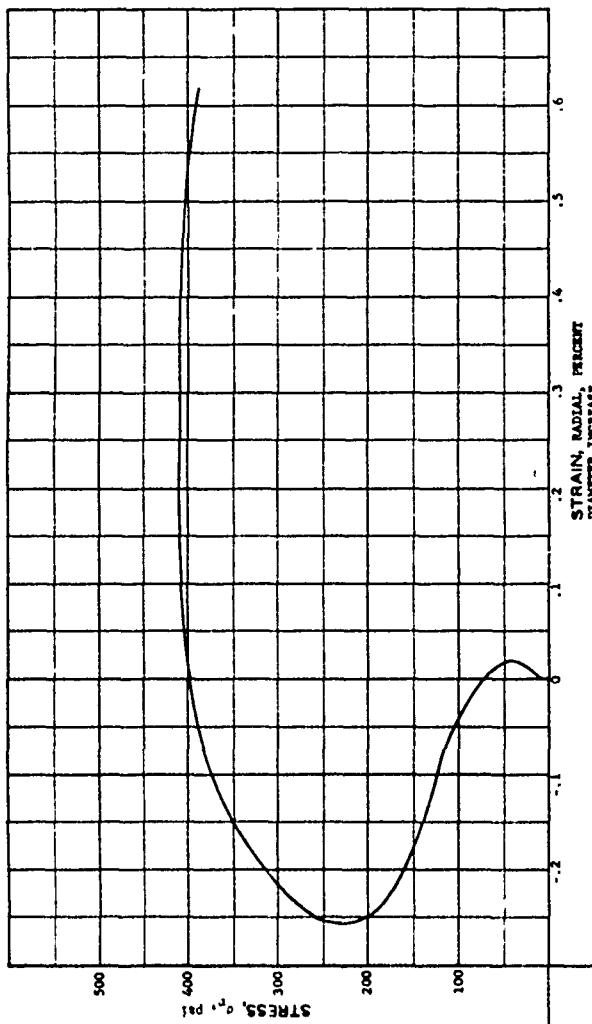
PROJECT	Geotech B-602,	
Contract No.	DUCAS9-62-C-0091	
<u>AREA</u>		
BORING NO.	SAMPLE NO.	102
DEPTH EL	DATE	
LL 27	PL 15	P1 12
<u>DESCRIPTION</u> McCormick Ranch Sand		
Constant Stress Ratio, 0.6; Initial Pressure, 0 psi		
Cycle Shear < 75%		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.62 %
VOID RATIO	e ₀	0.34
SATURATION	s ₀	63.49 %
DRY DENSITY	γ_d	124.37pcf
WET DENSITY	γ	137.58pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.59 cm



HYDROSTATIC COMPRESSION PHASE



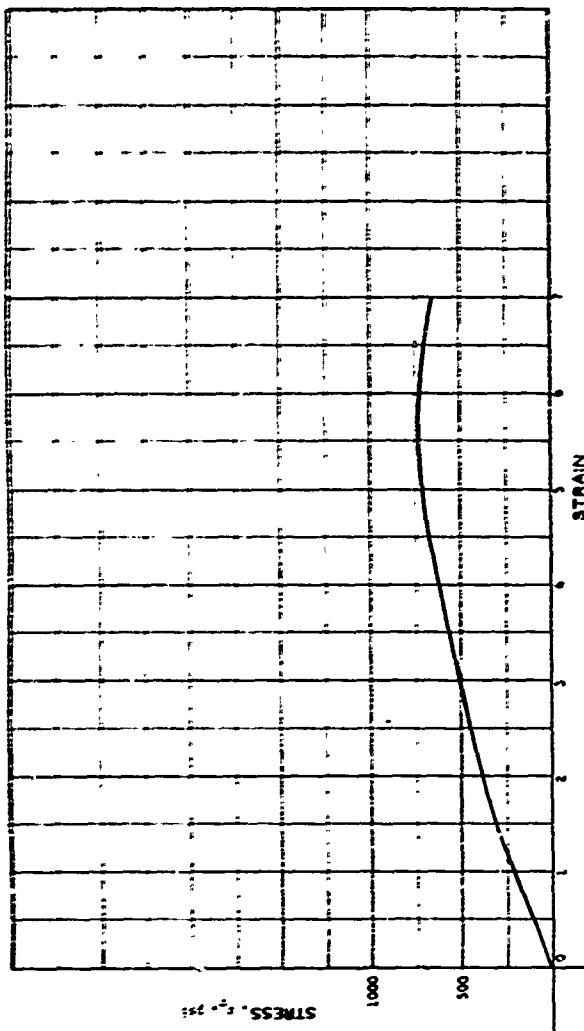
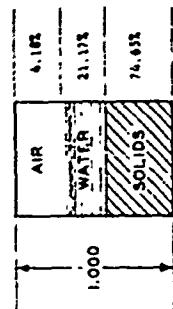
HYDROSTATIC PRESSURE, P, PSI

150

PROJECT	Ge Tech 3-6021		
Contract No. DMAA39-67-C-0031			
AREA			
BORING NO.	SAMPLE NO. 186		
DEPTH	DATE		
EL.	LL	PL	15
	27	P1	12
DESCRIPTION McCormick Ranch Sand			
Constant Stress Ratio, 0.6			
Initial Pressure, 0 psi			

VOLMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.8
VOID RATIO	e	0.18
SATURATION	S	91.6%
DRY DENSITY	D _d	116.37pcf
WET DENSITY	D _w	137.38pcf
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _o	3.49 cm
SPECIMEN HEIGHT	H _o	7.59 cm



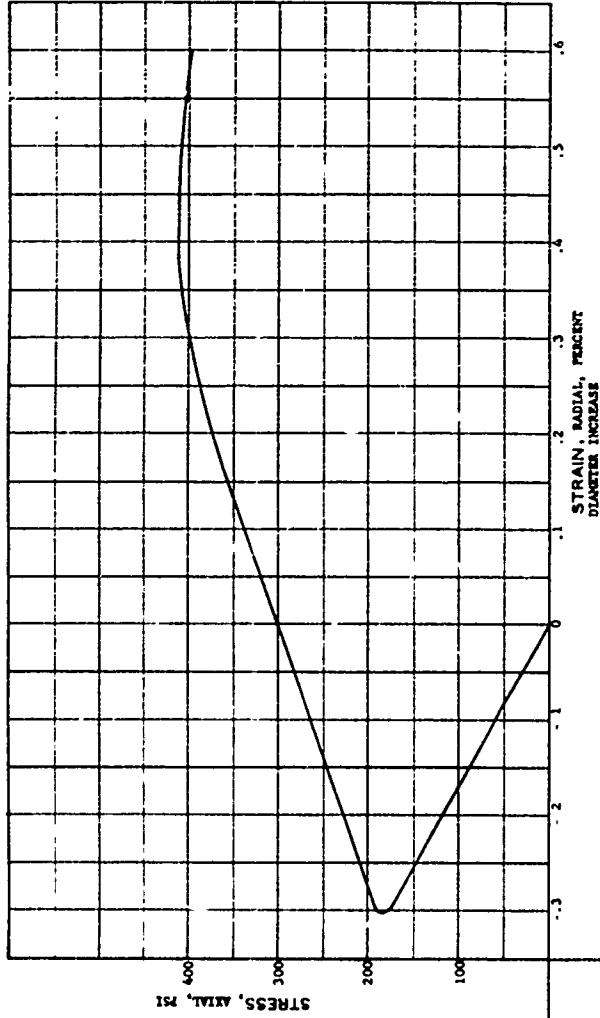
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

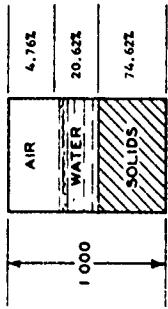
151

PROJECT	De Tech B-402
Contract No.	DCR33941.C0031
AREA	
BORING NO.	SAMPLE NO. 16
DEPTH	DATE
EL.	
LL	PL 15 PI 12
DESCRIPTION McCormick Ranch 1 and	
Constant Stress Ratio, 0.6	
Initial Pressure, 0 psf	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.36	%
VOID RATIO	e ₀	0.36	
SATURATION	s ₀	61.23	%
DRY DENSITY	γ_d	124.33	pcf
WET DENSITY	γ'	137.19	pcf
SPECIFIC GRAVITY	G ₀	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.50	cm



HYDROSTATIC COMPRESSION PHASE

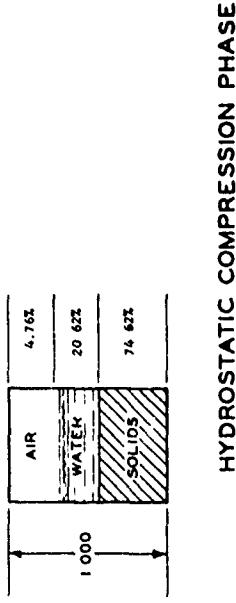
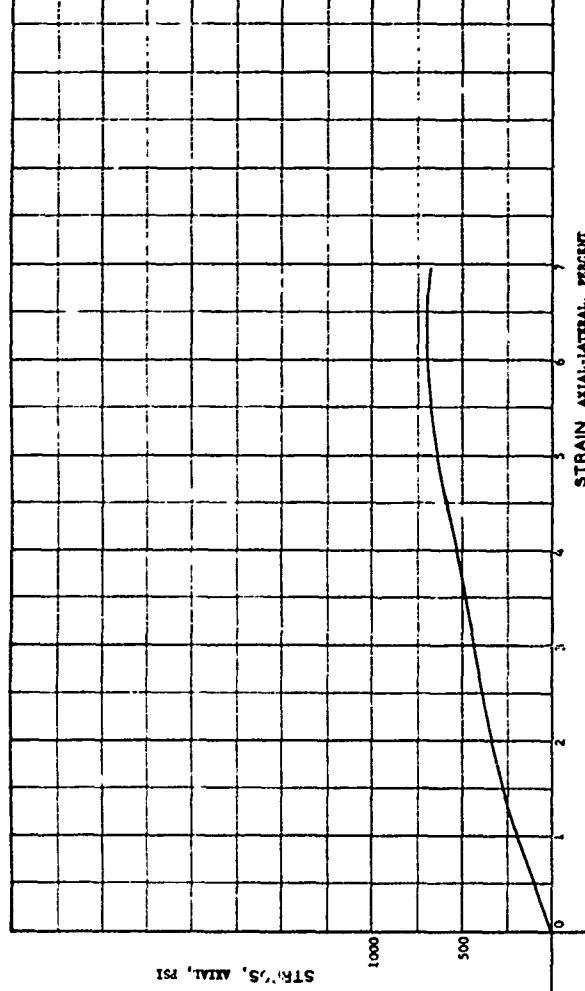
HYDROSTATIC PRESSURE, P, PSI

152

PROJECT Da Tech 3-607:	
Contract No. DA-39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 187
DEPTH	DATE
EL.	
1.1.	27
	PL
	15
	P1
	12

DESCRIPTION McCormick Ranch Sand
Constant Stress Ratio, 0.6
Initial Pressure, 0 psi

WATER CONTENT	W	10.34 %
VOID RATIO	e ₀	0.34
SATURATION	S ₀	81.23 %
DRY DENSITY	γ_d	126.33 PCF
WET DENSITY	γ'	137.19 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.34 CM



HYDROSTATIC COMPRESSION PHASE

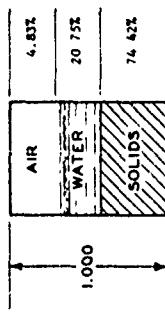
HYDROSTATIC PRESSURE, P, PSI

153

PROJECT	Geotech B-601
Contract No. DICA39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 187
DEPTH	DATE
EL	
LL	PL 15 P1 12
DESCRIPTION McCormick Ranch Sand	
Constant Stress Ratio, 0.6	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

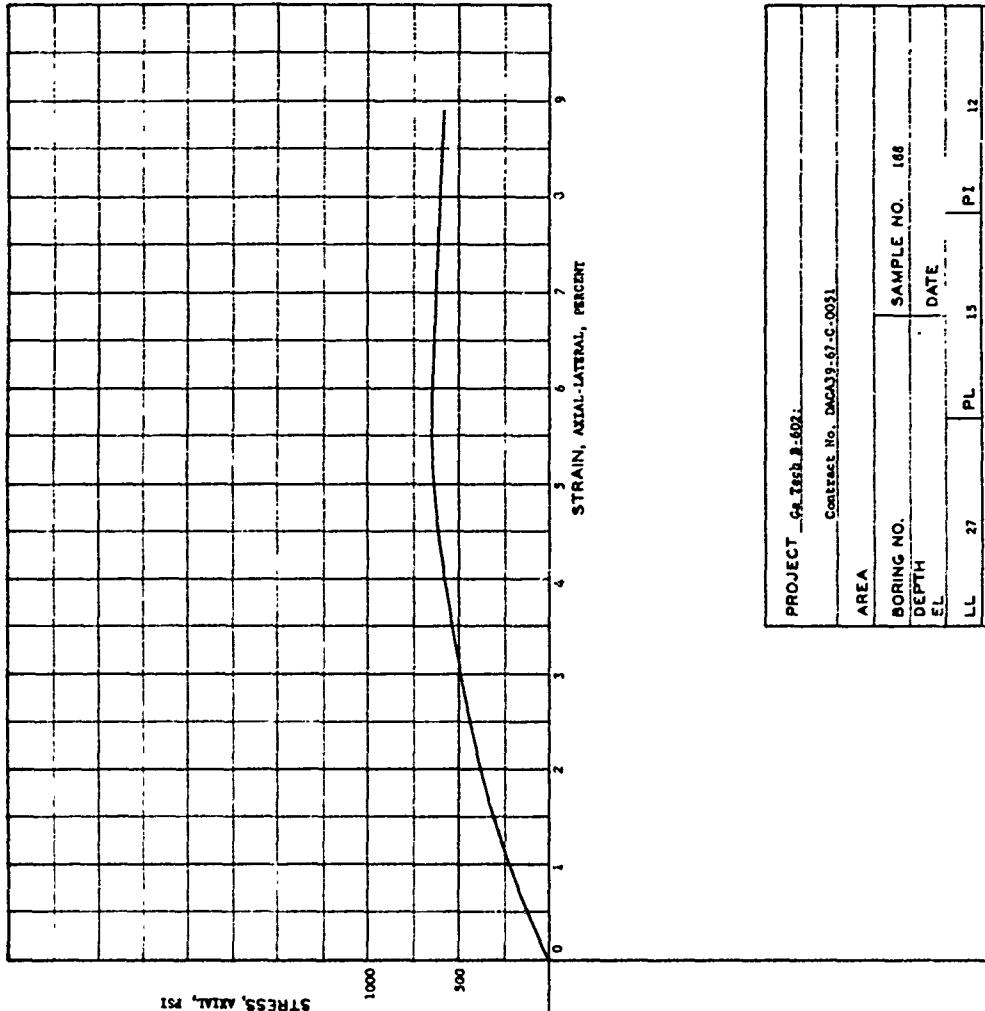
WATER CONTENT	w	10.44 %
VOID RATIO	e_0	0.34
SATURATION	s_0	81.11 %
DRY DENSITY	γ_d	123.99 PCF
WET DENSITY	γ	136.94 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 CM
SPECIMEN HEIGHT	H_o	7.54 CM



HYDROSTATIC COMPRESSION PHASE

STRESS, AXIAL, PSI

STRAIN, AXIAL-LATERAL, PERCENT



HYDROSTATIC PRESSURE, P, PSI

154

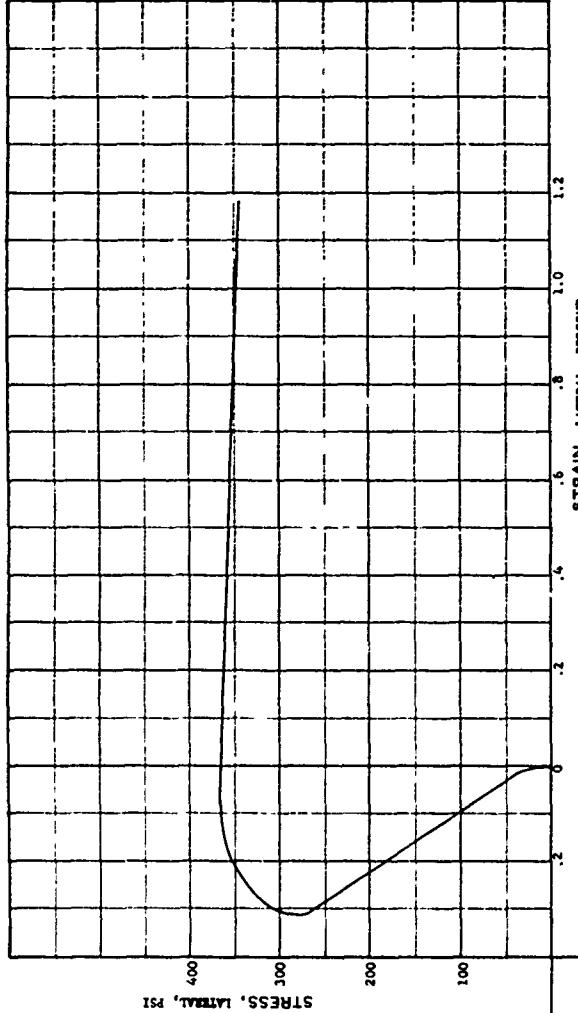
PROJECT	GA. Tech. B-6021
Contract No.	DACM9-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 168
DEPTH	DATE
EL.	
LL	PL
	P1
	12

DESCRIPTION McDonald Ranch, Sand

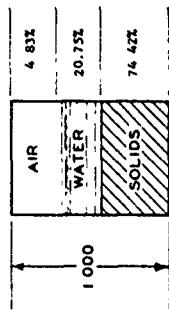
Constant Stress Ratio, 0.6

Initial Pressure, 0 psi

WATER CONTENT	W	10.44 %
VOID RATIO	e ₀	0.34
SATURATION	S _o	81.11 %
DRY DENSITY	γ_d	123.99 PCF
WET DENSITY	γ	136.94 PCF
SPECIMEN GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.54 CM



HYDROSTATIC COMPRESSION PHASE



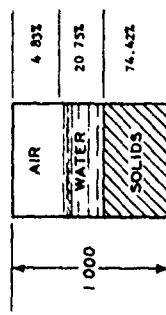
HYDROSTATIC PRESSURE, P, PSI

155

PROJECT	Ge Tech S-603;
Contract No. DACA39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 104
DEPTH	DATE
EL.	
LL.	PL 15 P1 12
DESCRIPTION McCormick Ranch Sand	
Constant Stress Ratio, 0.6	
Initial Pressure, 0.15	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

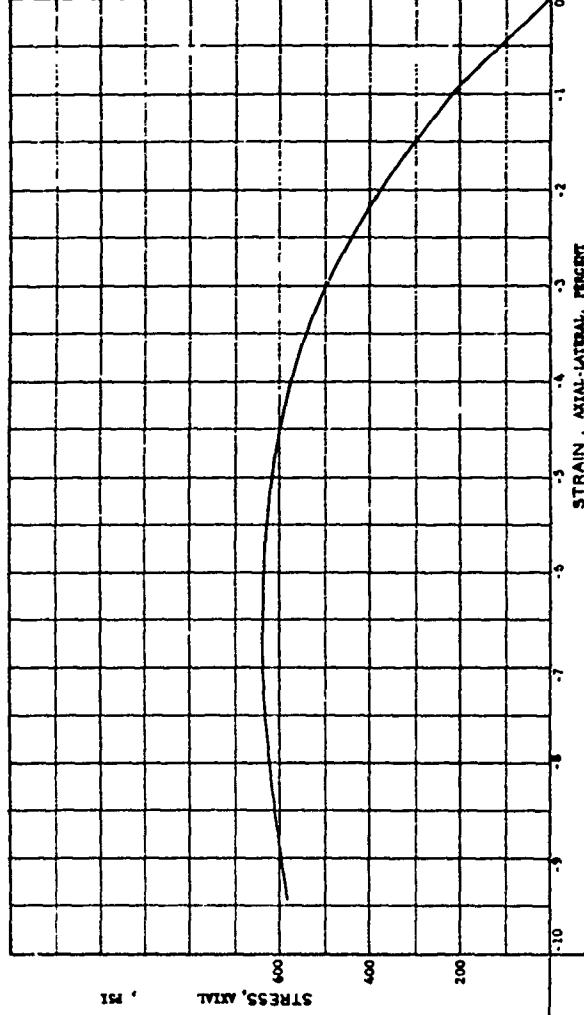
WATER CONTENT	W	10.44 %
VOID RATIO	e_0	0.34
SATURATION	S_o	81.11 %
DRY DENSITY	γ_d	123.99pcf
WET DENSITY	γ_w	136.96pcf
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.50 cm
SPECIMEN HEIGHT	H_o	7.54 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

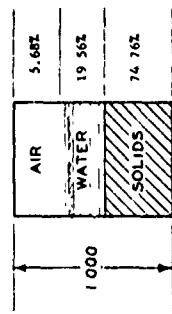
156



PROJECT	Geotech S-602;	SAMPLE NO.	168
Contract No. DAMA31.87-C-0031		DATE	
AREA			
BORING NO.			
DEPTH			
EL.			
LL	27	PL	15
		P1	12
DESCRIPTION		McDonald Ranch Sand	
		Constant Strain Ratio, 0.4	
		Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

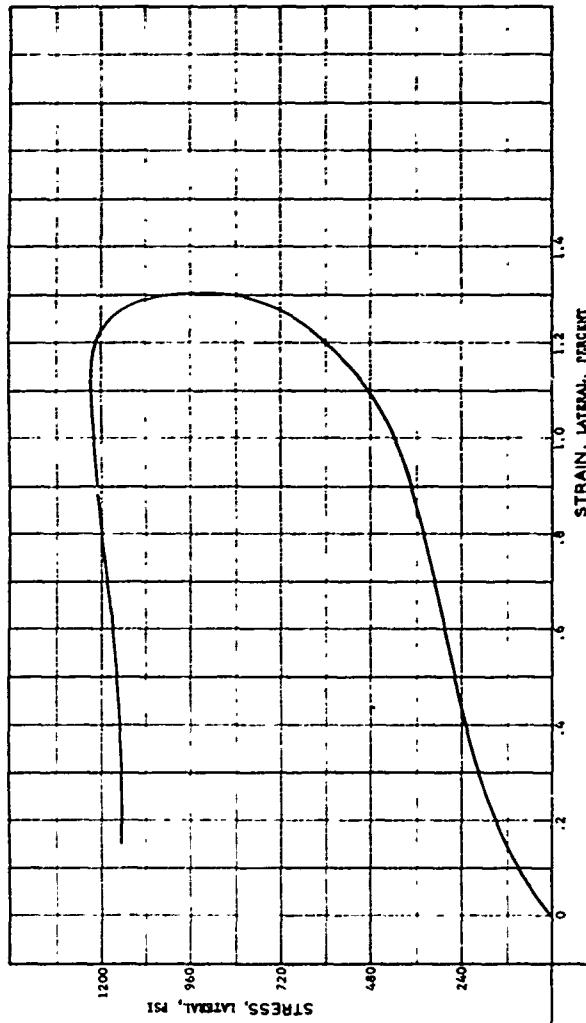
WATER CONTENT	W	9.80	%
VOID RATIO	e_0	0.34	
SATURATION	S _o	77.44	%
DRY DENSITY	γ_d	126.55	pcf
WET DENSITY	γ	136.75	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.26	cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

157

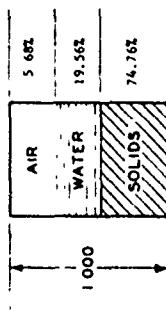


PROJECT	Georgia Institute of Technology	Contract No.	DA-439-67-C-0031
AREA			
BORING NO.	SAMPLE NO. 143		
DEPTH	DATE		
EL.	LL	PL	PL
27	13	13	12

DESCRIPTION Heceta Ranch Land
Constant stress Ratio, 0.8
Initial Pressure, 0 psi

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

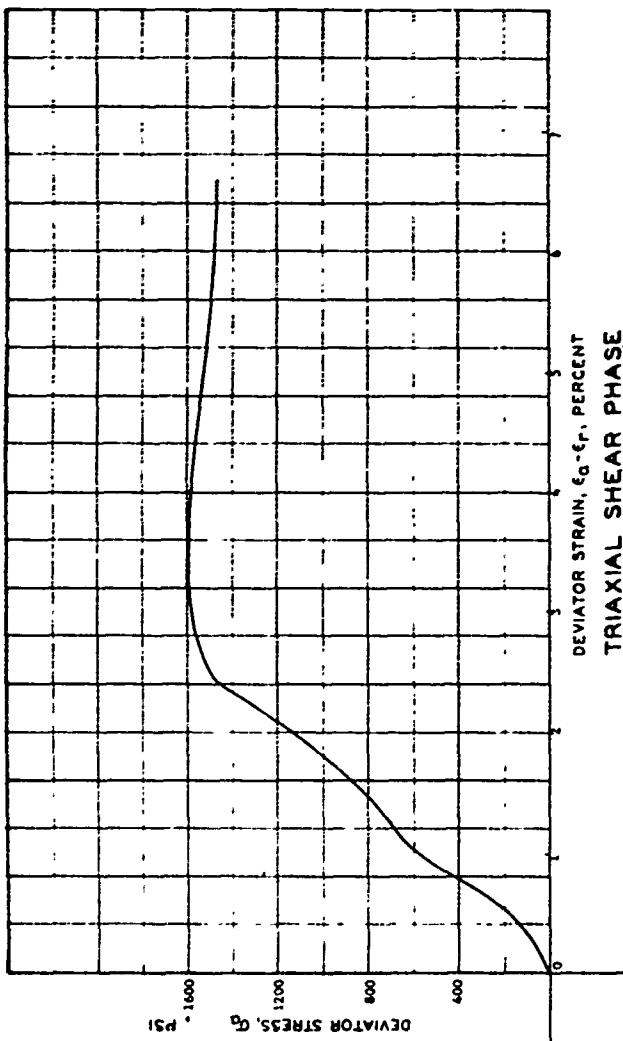
WATER CONTENT	w	9.60 %
VOID RATIO	e ₀	0.34
SATURATION	s ₀	77.48 %
DRY DENSITY	γ_d	124.35 PCF
WET DENSITY	γ_w	136.75 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D _c	3.50 CM
SPECIMEN HEIGHT	H ₀	7.26 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

158

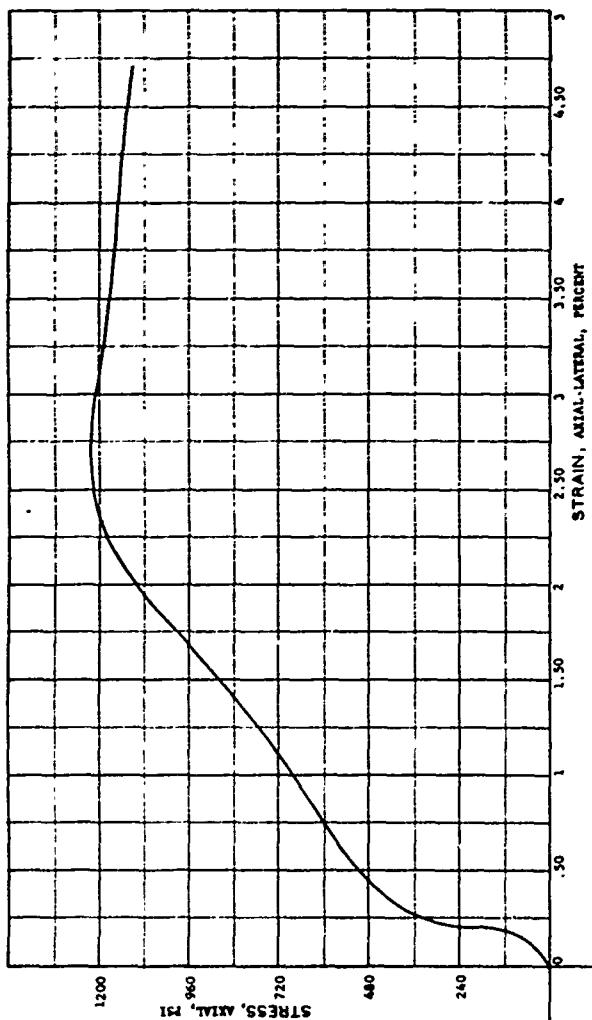


TRIAXIAL SHEAR PHASE

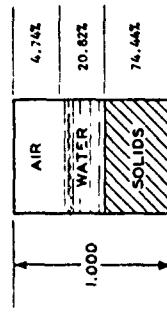
PROJECT	Georgia Institute of Technology R-602
Contract No.	DME3701-C-9001
AREA	
BORING NO.	
DEPTH EL.	
LL	
PL	
P1	

DESCRIPTION McWayne Beach Sand
Constant Stress Ratio, 0.8
Initial Pressure, 0.81

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE



WATER CONTENT	W	10.47 %
VOID RATIO	e_0	0.34
SATURATION	s_0	81.46 %
DRY DENSITY	γ_d	124.03 PCF
WET DENSITY	γ	131.02 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	d_o	3.51 CM
SPECIMEN HEIGHT	h_o	7.53 CM

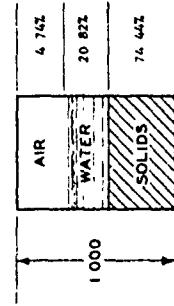
HYDROSTATIC PRESSURE, P, PSI

159

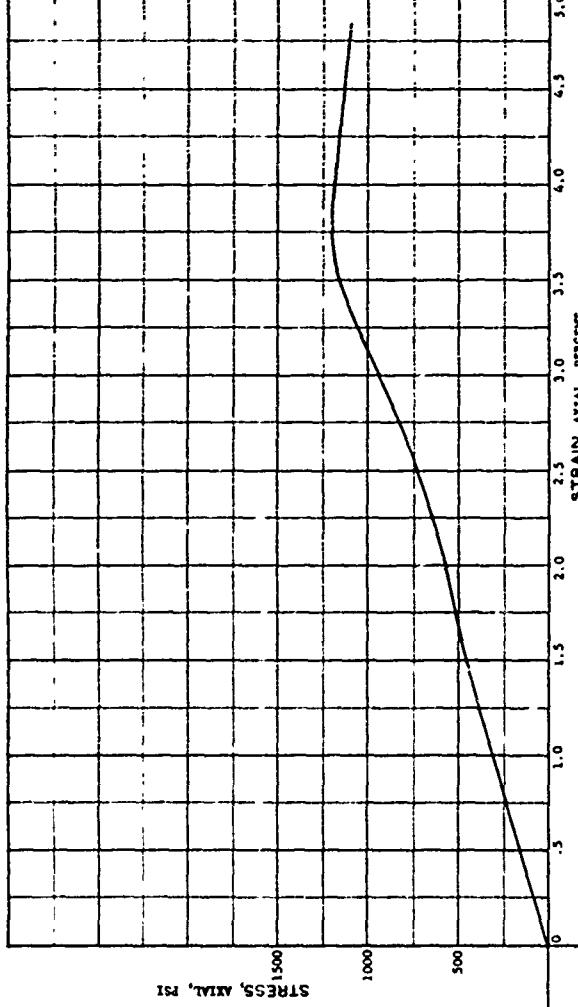
PROJECT	Ge Tech. B-4021		
Contract No. DACA39-67-C-0051			
AREA	BORING NO.	SAMPLE NO.	165
	DEPTH	DATE	
EL			
LL	27	PL	15
		P1	12
DESCRIPTION McCormick Ranch Sand			
Comatant Ratio, 0.8			
Initial Pressure, 0 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.47 %
VOID RATIO	e ₀	0.34
SATURATION	s ₀	61.46 %
DRY DENSITY	γ_d	124.03 PCF
WET DENSITY	γ_w	137.02 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.53 CM



HYDROSTATIC COMPRESSION PHASE



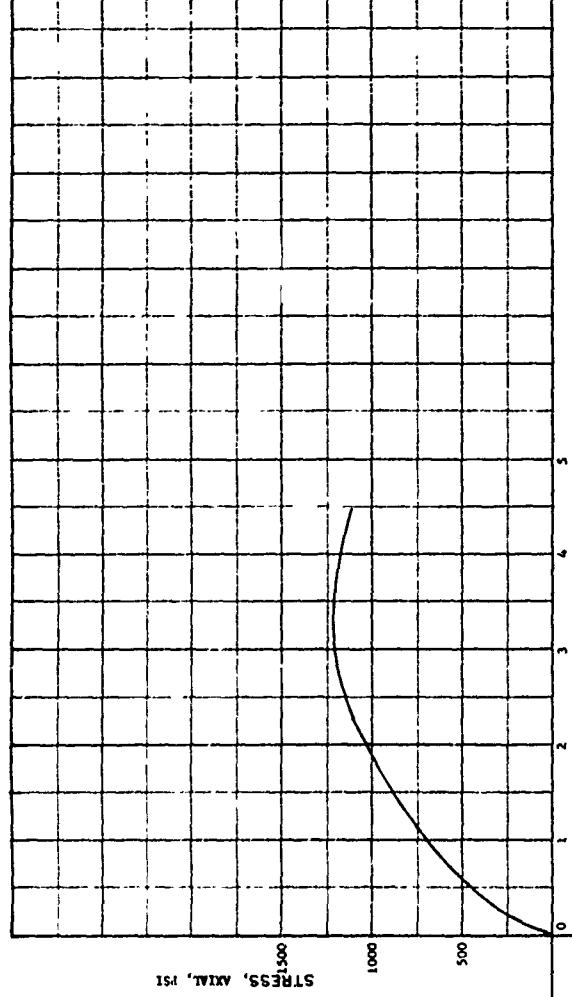
HYDROSTATIC PRESSURE, P, PSI

160

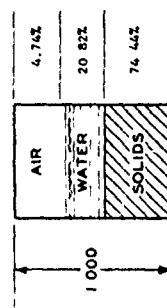
PROJECT	Ge-Tech B-602,
Contract No.	DA-2A92-67-C-0031
AREA	
SORING NO.	SAMPLE NO. 165
DEPTH	DATE
EL.	
LL	PL 15
	P1 12
DESCRIPTION McCormick Ranch Sand	
Constant Ratio, 0.8	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.47 %
VOID RATIO	e_0	0.34
SATURATION	S_o	81.46 %
DRY DENSITY	γ_d	124.03 PCF
WET DENSITY	γ	137.02 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.51 CM
SPECIMEN HEIGHT	H_o	7.53 CM



HYDROSTATIC COMPRESSION PHASE

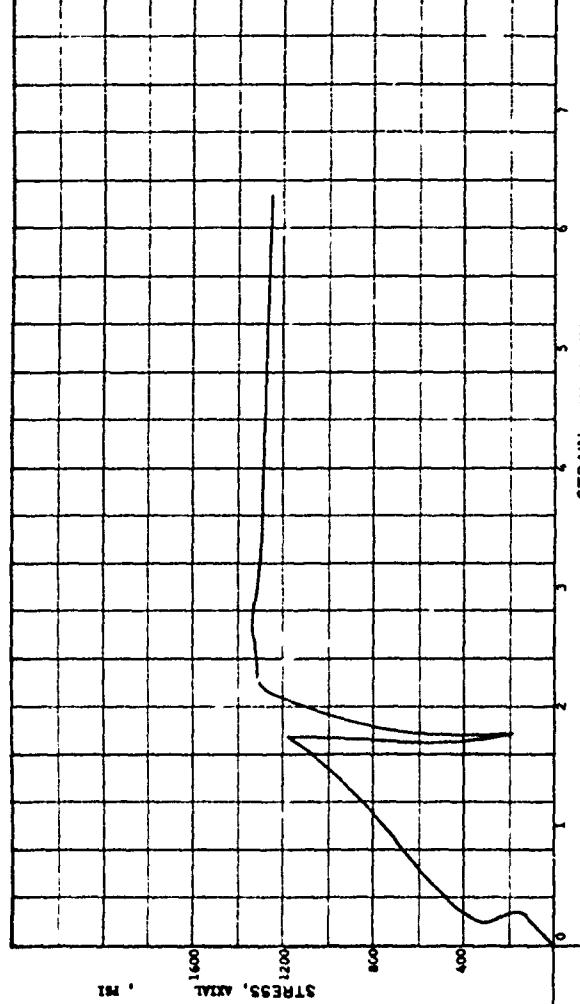
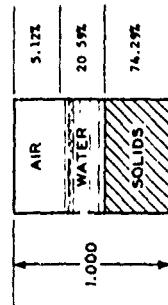


HYDROSTATIC PRESSURE, P, PSI

161

PROJECT	Ge-Tech B-602.
Contract No.	DACAO9-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 165
DEPTH	DATE
EL	
LL	PL 15 PI 12
DESCRIPTION	McComick Ranch Sand
Content Ratio	0.8
Initial Pressure	0 PSI

WATER CONTENT	W	10.38	%
VOID RATIO	e ₀	0.35	
SATURATION	S _o	60.07	%
DRY DENSITY	γ_d	123.77	pcf
WET DENSITY	γ	136.61	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D _o	3.51	cm
SPECIMEN HEIGHT	H _o	7.53	cm

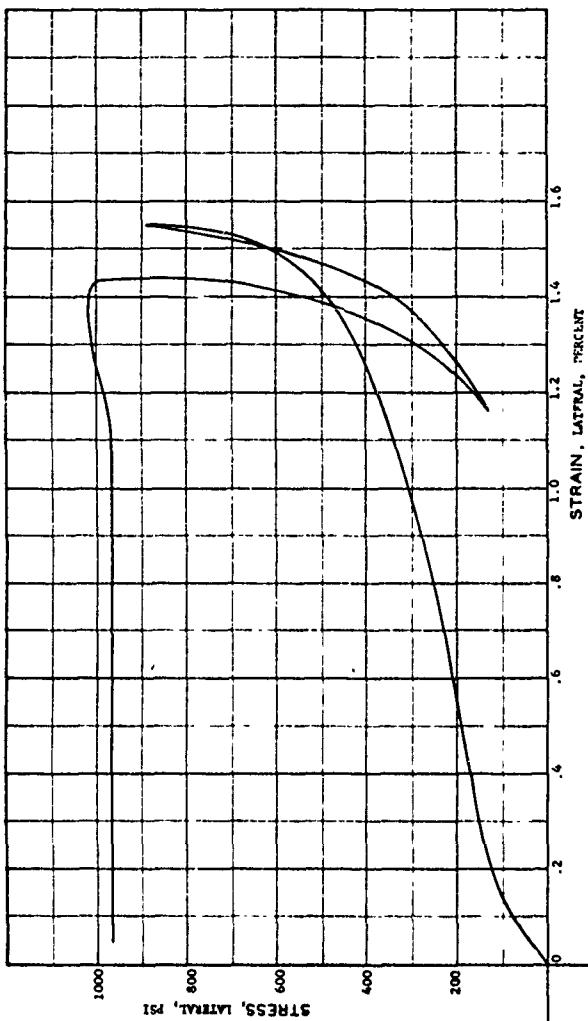


HYDROSTATIC PRESSURE, P, PSI

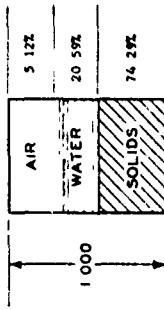
162

PROJECT Georgia Institute of Technology, B-402	
Contract No. DMAA39-67-C-0021	
AREA	
BORING NO.	SAMPLE NO. 166
DEPTH	DATE
EL.	
LL 27	PL 15 P1 12
DESCRIPTION McComb Ranch Sand	
Constant Stress Ratio, 0.8	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	10.38 %
VOID RATIO	e _o	0.35
SATURATION	S _o	80.0 %
DRY DENSITY	γ_d	123.77 PCF
WET DENSITY	γ	136.61 PCF
SPECIFIC GRAVITY	G _s	2.67
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.53 CM

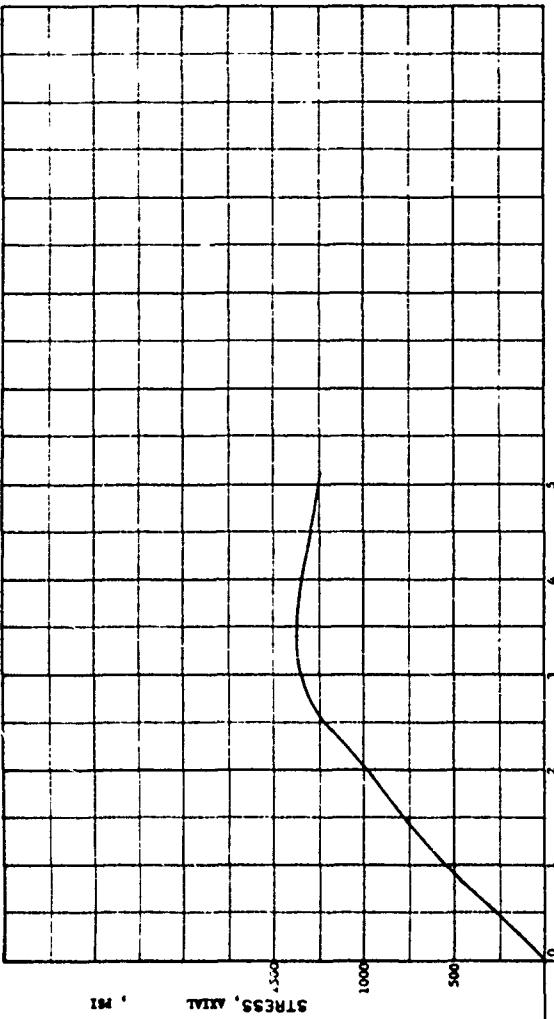


HYDROSTATIC COMPRESSION PHASE

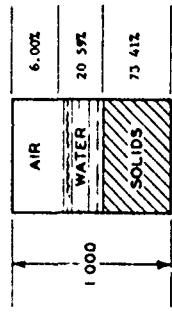
HYDROSTATIC PRESSURE, P, PSI

PROJECT <u>Geotechnical Institute of Technology I-602</u>	
Contract No. <u>DACAG3-57-C-0031</u>	
AREA	
BORING NO	SAMPLE NO. <u>166</u>
DEPTH	DATE
EL.	
LL	PL
27	15
	P1
	12
DESCRIPTION <u>McCormick Ranch Sand</u>	
Constant Stress Ratio, 0.8	
Initial Pressure, 0 psi	

WATER CONTENT	W	10.50	%
VOID RATIO	e_0	0.16	
SATURATION	S _o	77.44	%
DRY DENSITY	γ_d	122.31	pcf
WET DENSITY	γ	132.16	pcf
SPECIFIC GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D _o	3.51	cm
SPECIMEN HEIGHT	H _o	7.53	cm



HYDROSTATIC COMPRESSION PHASE



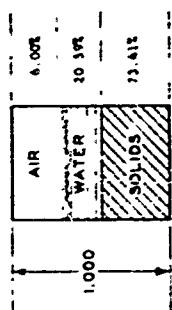
HYDROSTATIC PRESSURE, P, PSI

164

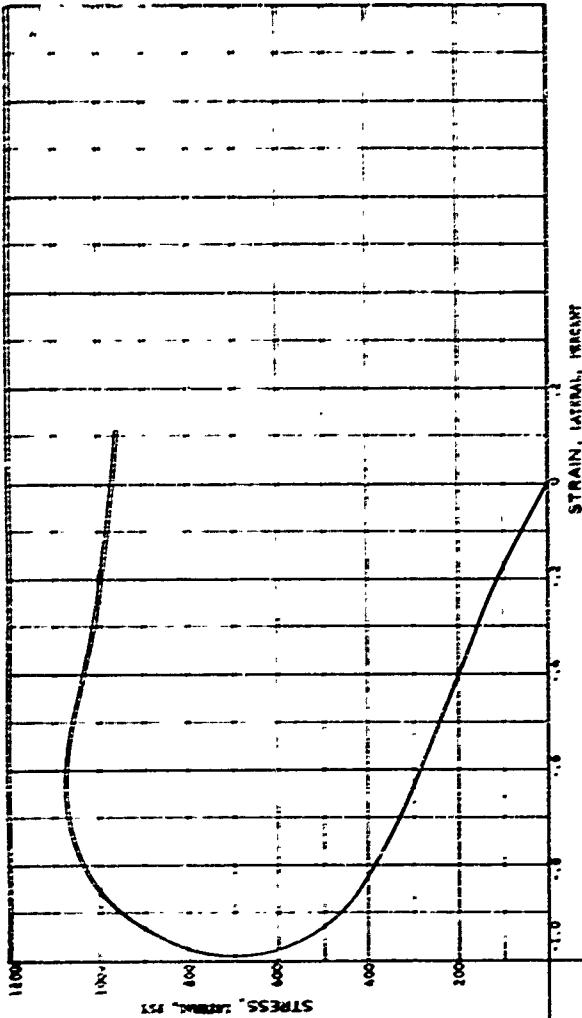
PROJECT	Ge-Tech 8-602			
Contract No. DACA39-67-S-0021				
AREA				
BORING NO.	SAMPLE NO. 170			
DEPTH	DATE			
ft.	mm.			
LL	PL	15	PL	12
DESCRIPTION McCormick Beach Sand				
Constant Stress Ratio, 0.9				
Initial Pressure, 0 psi				

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	10.10
VOID RATIO	0.34
SATURATION	50
DRY DENSITY	1.73
WET DENSITY	1.13
GRAVITY	2.67
SPECIMEN DIAMETER	3.11 CM
SPECIMEN HEIGHT	1.11 CM



HYDROSTATIC COMPRESSION PHASE



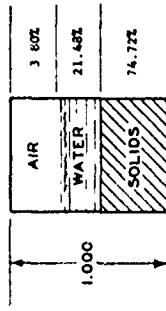
HYDROSTATIC PRESSURE, P, PSI

165

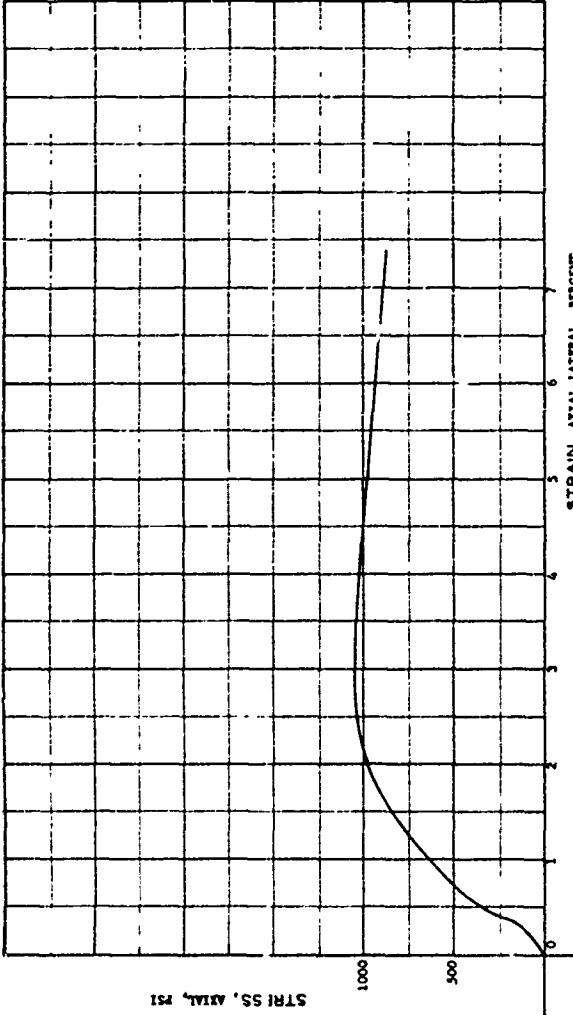
PROJECT	Geotechnical Test
Contract No.	DUCADP-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 170
DEPTH	DATE
EL ...	
LL	PL 19
	PL 12
DESCRIPTION	McComlich Ranch, Ind.
	Constant Stress Ratio, 0.0
	Initial pressure, 0 psi

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	10.16 %
VOID RATIO	e_0	0.34
SATURATION	S_o	54.96 %
DRY DENSITY	γ_d	126.49 PCF
WET DENSITY	γ	137.89 PCF
SPECIFIC GRAVITY	G_s	2.67
SPECIMEN DIAMETER	D_o	3.49 CM
SPECIMEN HEIGHT	H_o	7.55 CM



HYDROSTATIC COMPRESSION PHASE

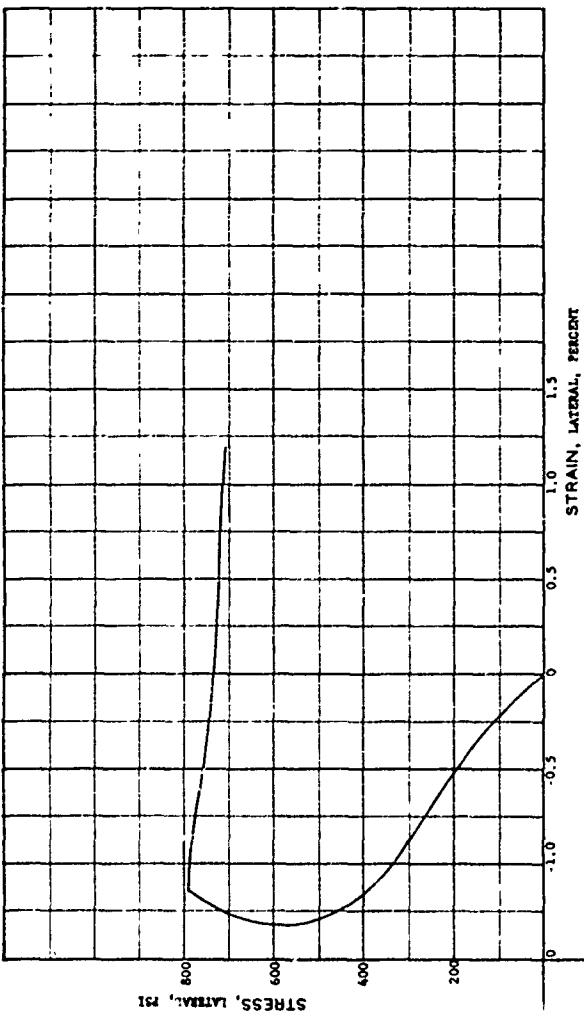


HYDROSTATIC PRESSURE, P, PSI

166

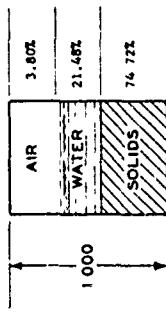
PROJECT	Ga Tech B-602,		
Contract No. DA-2439-67-C-0031			
AREA			
BORING NO.	SAMPLE NO. 103		
DEPTH EL.	DATE		
LL	27	PL	15
		P1	12
DESCRIPTION McCormick Ranch Sand			
Constant Stress Ratio, 0.8			
Initial Pressure, 0 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	10.76	%
VOID RATIO	e_0	0.36	
SATURATION	S_o	64.96	%
DRY DENSITY	γ_d	126.49	pcf
WET DENSITY	γ	137.89	pcf
SPCIR - GRAVITY	G_s	2.67	
SPECIMEN DIAMETER	D_o	3.49	cm
SPECIMEN HEIGHT	H_o	7.55	cm



HYDROSTATIC PRESSURE, P, PSI

167

PROJECT		Geotech B-602:		
Contract No.		DACA39-67-C-0031		
AREA				
BORING NO.		SAMPLE NO.	1B3	
DEPTH		DATE		
EL				
L.L.	27	PL	15	PL 12
DESCRIPTION				
McCorckick Ranch Sand				
Constant Stress Ratio, 0.6				
Initial Pressure, 0 psi				

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

Group A

Triaxial Tests

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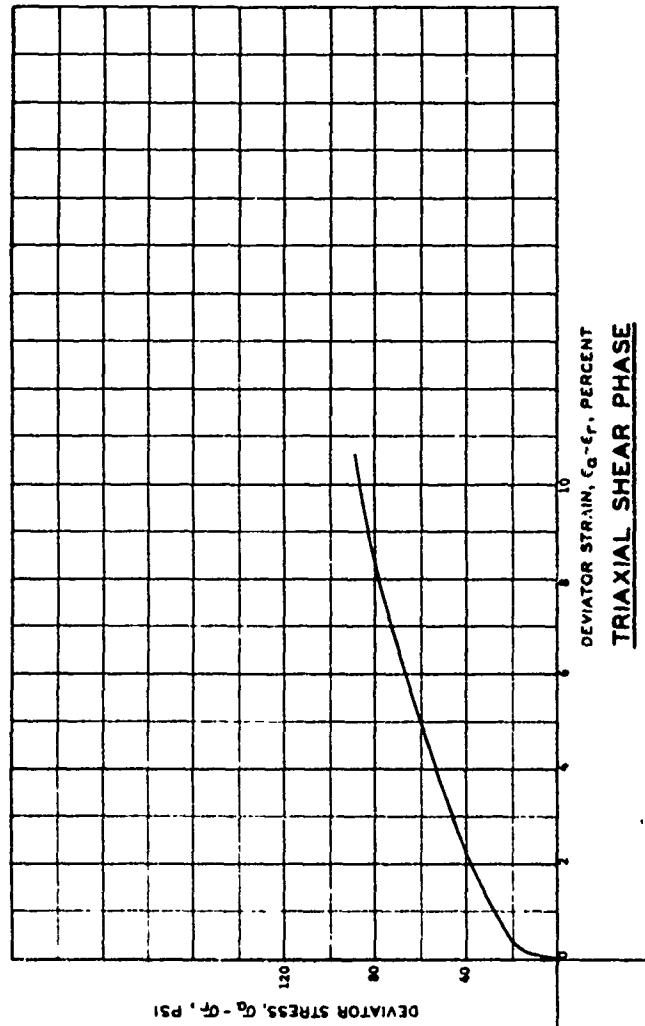
171

Group A

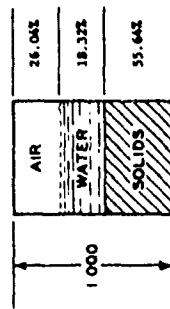
Triaxial Tests

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171



HYDROSTATIC COMPRESSION PHASE



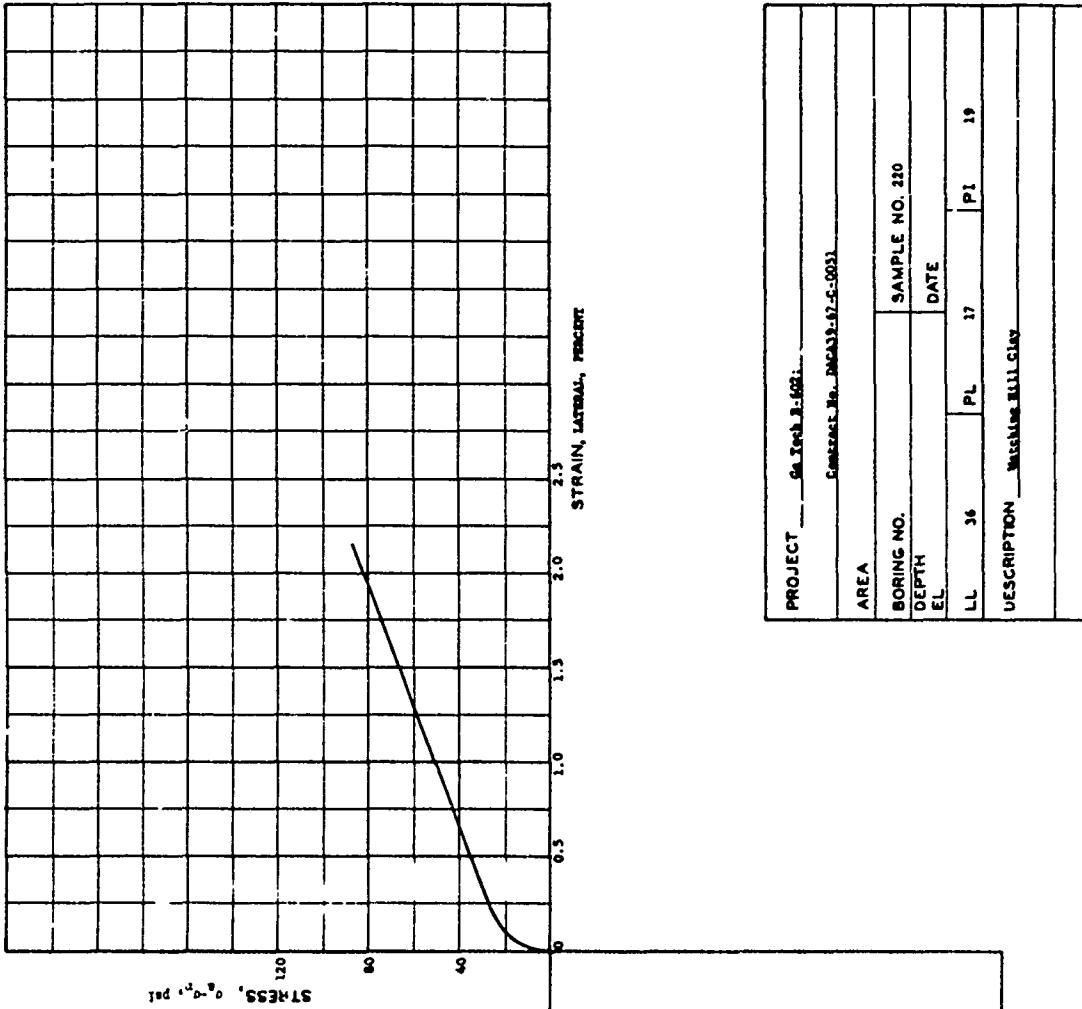
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173

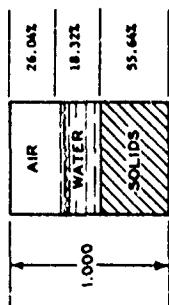
HYDROSTATIC PRESSURE, P, PSI

PROJECT	De Tech B-402;						
CONTROLEE NO.	DNCAS-14-C-0031						
AREA							
BORING NO	DEPTH	SAMPLE NO.	DATE	PL	11	P1	19
LL	36						
DESCRIPTION <u>Washline MUL CLAY</u>							

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	12.19	%
VOID RATIO	e_0	0.80	
SATURATION	S_g	41.29	%
DRY DENSITY	γ_d	93.74	pcf
WET DENSITY	γ	105.18	pcf
SPECIFIC GRAVITY	G_g	2.70	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.62	cm



HYDROSTATIC COMPRESSION PHASE

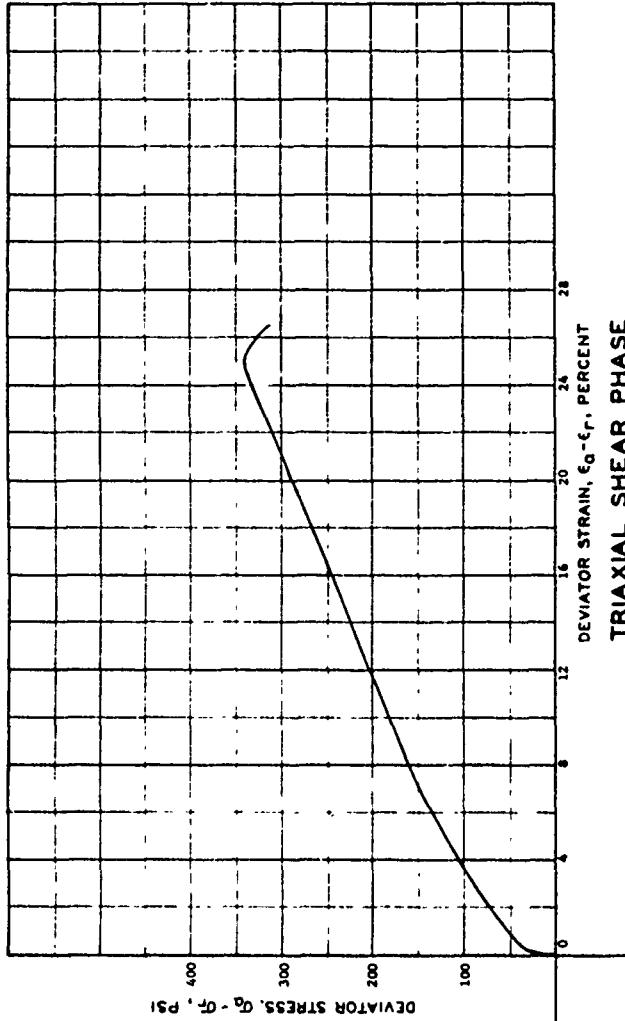
HYDROSTATIC PRESSURE, P, PSI

174

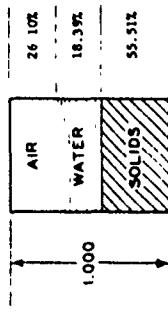
PROJECT	Geotech. I-602
Concrete No. 20231-12-5-0031	
AREA	
BORING NO.	SAMPLE NO. 210
DEPTH	DATE
EL.	
LL	PL
36	17
	P1
	19
DESCRIPTION <i>Mechanically Treated Clay</i>	

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.27 %
VOID RATIO	e ₀	0.80
SATURATION	s ₀	41.35 %
DRY DENSITY	γ_d	93.55 PCF
WET DENSITY	γ_w	105.01 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



TRIAXIAL SHEAR PHASE



HYDROSTATIC COMPRESSION PHASE

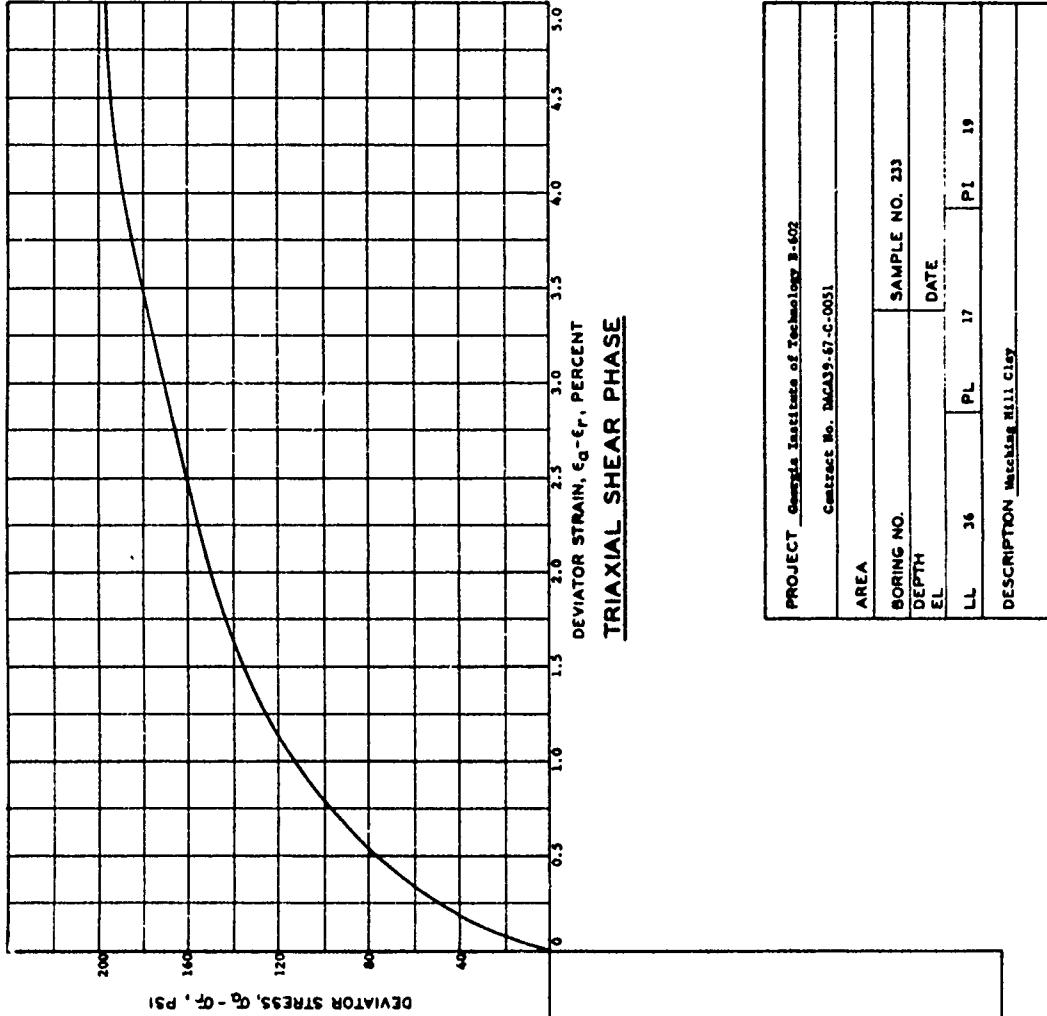
HYDROSTATIC PRESSURE, P, PSI

175

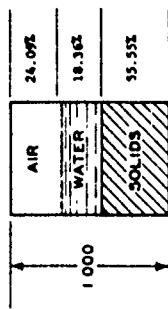
PROJECT	Ge Tech E-602
Sample No.	DMEAS-67-C-001
AREA	
BORING NO.	SAMPLE NO. 222
DEPTH	DATE
EL	
LL	PL 17
	PT 19
DESCRIPTION: Watchung Hill Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.24 %
VOID RATIO	e ₀	0.40
SATURATION	S ₀	41.30 %
DRY DENSITY	γ_d	93.60 PCF
WET DENSITY	γ'	105.05 PCF
SPECIFIC GRAVITY	G_s	2.10
SPECIMEN DIAMETER	D ₀	2.59 CM
SPECIMEN HEIGHT	H ₀	7.52 CM
SPECIMEN HEIGHT	H ₀	7.52 CM



HYDROSTATIC COMPRESSION PHASE



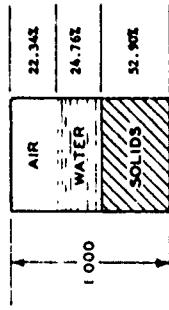
HYDROSTATIC PRESSURE, P, PSI

176

PROJECT	Georgia Institute of Technology B-002	
Contract No.	DMC35-67-C-0031	
AREA		
BORING NO.	SAMPLE NO. 233	
DEPTH	DATE	
EL.	LL	PL
	16	17
		P1
		19
DESCRIPTION		
Machine Mill C-57		

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	17.33	%
VOID RATIO	e_0	0.89	
SATURATION	S_o	52.56	%
DRY DENSITY	γ_d	89.13	pcf
WET DENSITY	γ	104.58	pcf
SPECIFIC GRAVITY	G_s	2.70	
CONFINING DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.64	cm

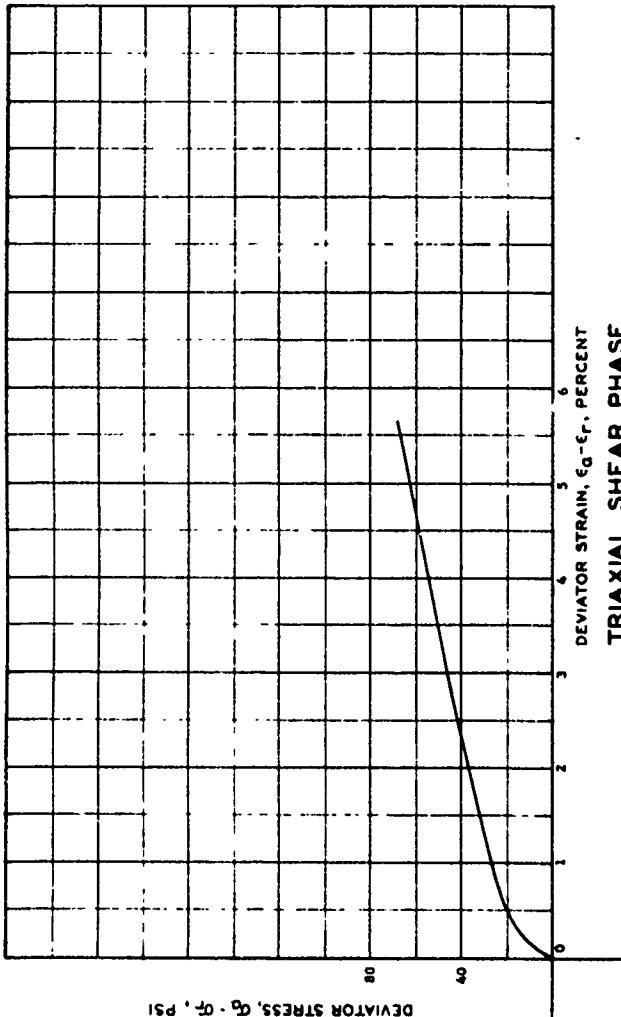


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P , PSI

HYDROSTATIC PRESSURE, P , PSI

177



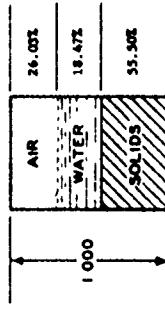
TRIAXIAL SHEAR PHASE

DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT

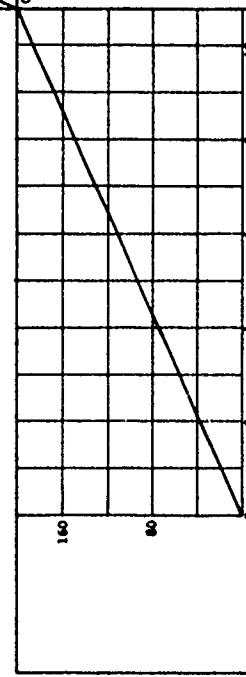
PROJECT	Georgia Institute of Technology S-602			
Contract No.	DA-39-67-C-0051			
AREA				
BORING NO.	SAMPLE NO. 214			
DEPTH	DATE			
EL.				
LL	PL	17	P1	19
DESCRIPTION Watch Hill Clay				

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.33	%
VOID RATIO	e ₀	0.80	
SATURATION	S _o	41.52	%
DRY DENSITY	γ_d	93.51	pcf
WET DENSITY	γ_w	105.03	pcf
SPECIFIC GRAVITY	G _s	2.67	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

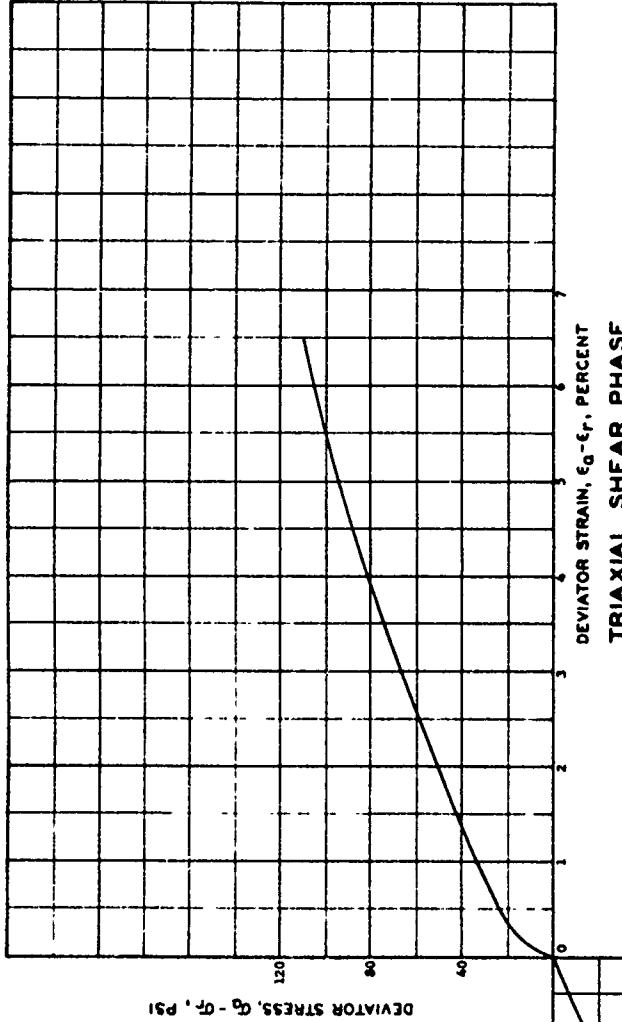


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

178

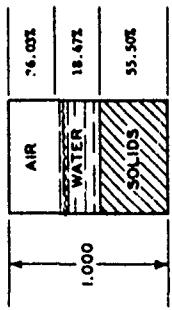
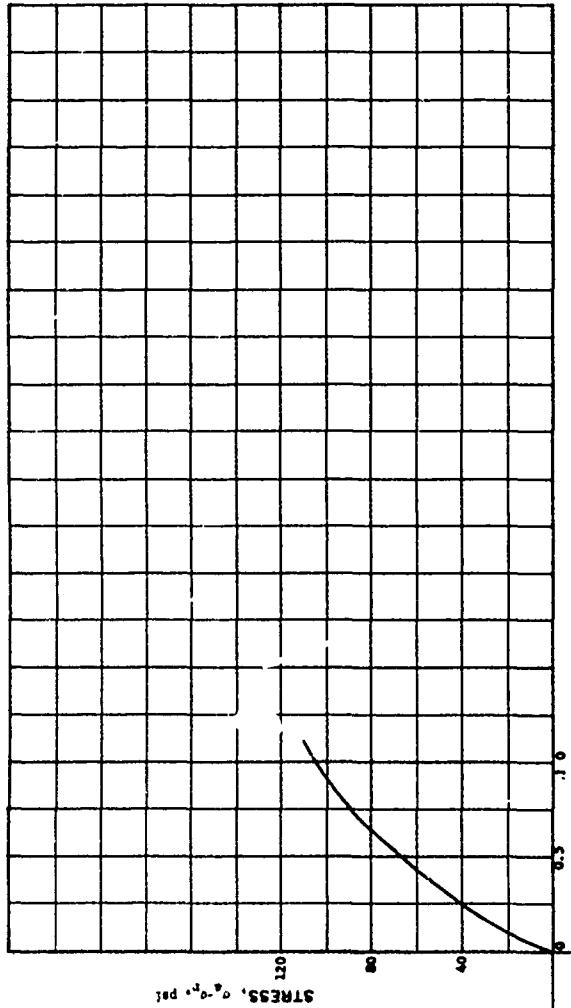


DEVIATOR STRAIN, $\epsilon_d - \epsilon_f$, PERCENT TRIAXIAL SHEAR PHASE

PROJECT	Geotech 3-402;
Contract No.	DMA09-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 212
DEPTH	DATE
EL.	
L.L.	PL. 17
	P1 19
DESCRIPTION Wachusett Hill Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.33	%
VOID RATIO	e ₀	0.80	
SATURATION	s ₀	41.52	%
DRY DENSITY	γ_d	93.51	pcf
WET DENSITY	γ	105.03	pcf
SPECIFIC GRAVITY	G _a	2.67	
CONFIRMED DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.62	cm



HYDROSTATIC COMPRESSION PHASE

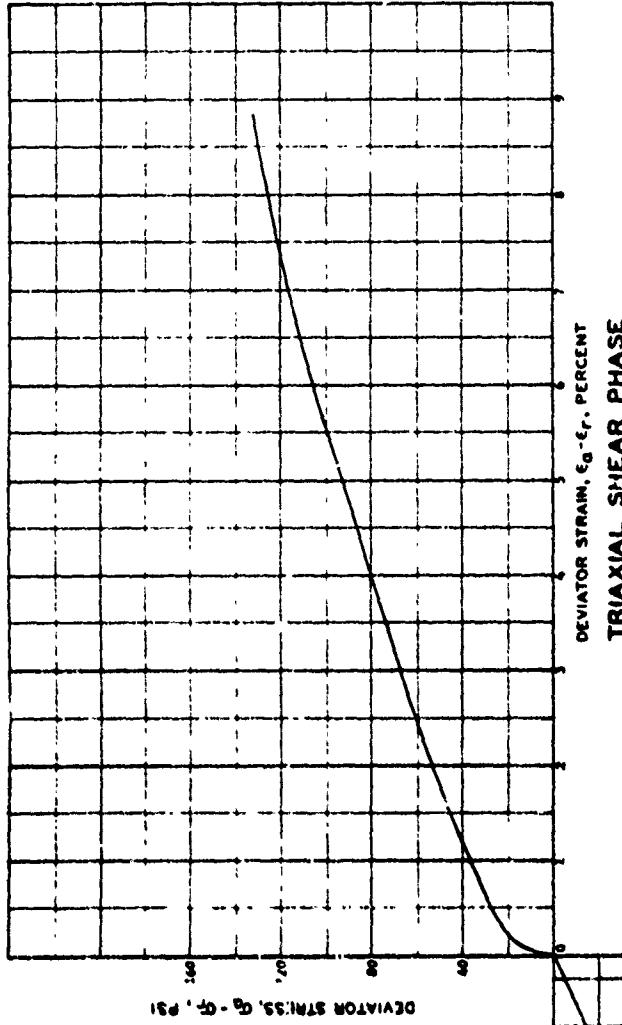
HYDROSTATIC PRESSURE, P, PSI

179

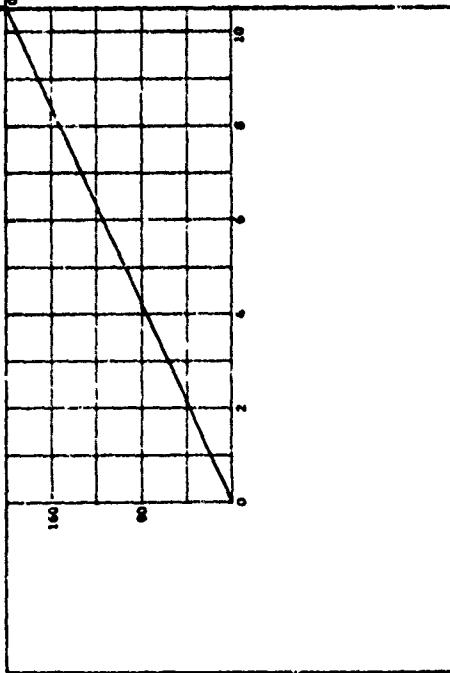
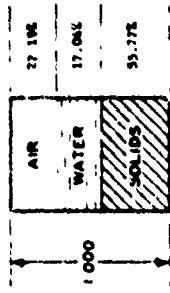
PROJECT	Ge Tech S-6021;
Contract No. IMPASS-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 212
DEPTH	DATE
EL	
LL	PL 17
	P1 19
DESCRIPTION Weathered Mill Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.31	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	36.32	%
DRY DENSITY	D _d	93.97	pcf
WET DENSITY	D _w	104.60	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.81	cm



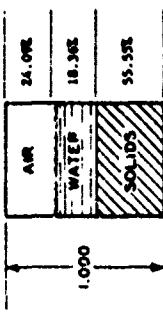
HYDROSTATIC COMPRESSION PHASE



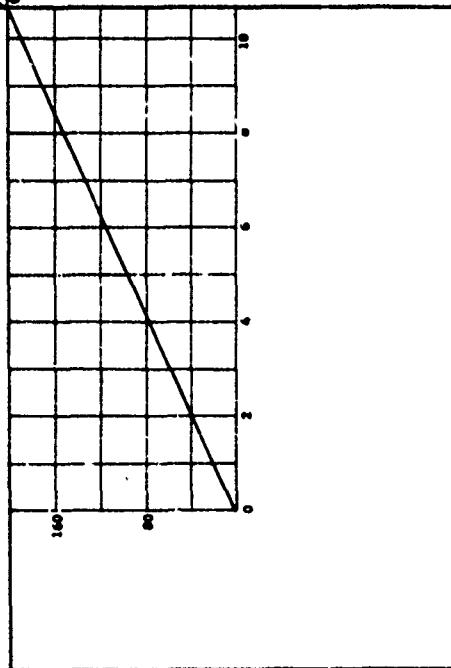
HYDROSTATIC COMPRESSION PHASE, P_h, PSI

PROJECT	Soil Tech B-402
Contract No.	DMCAB-67-C-0031
AREA	
BORING NO	SAMPLE NO
DEPTH	213
EL.	DATE
LL	P.L.
	17
	P1
	19
DESCRIPTION: WATERSATILL CLAY	

WATER CONTENT	W	12.24	%
VOID RATIO	e ₀	0.98	
SATURATION	S _o	41.30	%
DRY DENSITY	γ_d	93.60	pcf
WET DENSITY	γ_w	105.65	pcf
SPECIFIC GRAVITY	G _s	2.70	
INTERNAL DIAMETER	D _o	3.49	cm
SPECIMEN HEIGHT	H _o	7.62	cm

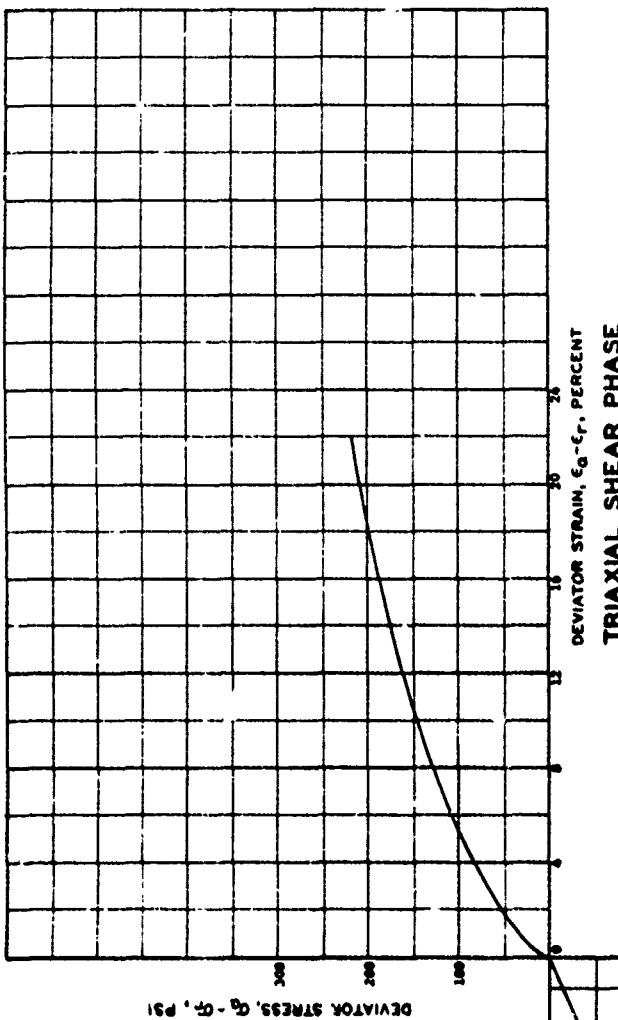


HYDROSTATIC COMPRESSION PHASE



DEVATOR STRESS, σ_d - σ_3 , kPa

181

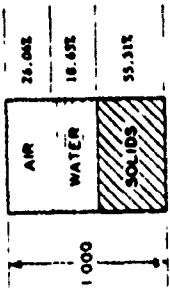


DEVIATOR STRAIN, ϵ_d - ϵ_r , PERCENT
TRIAXIAL SHEAR PHASE

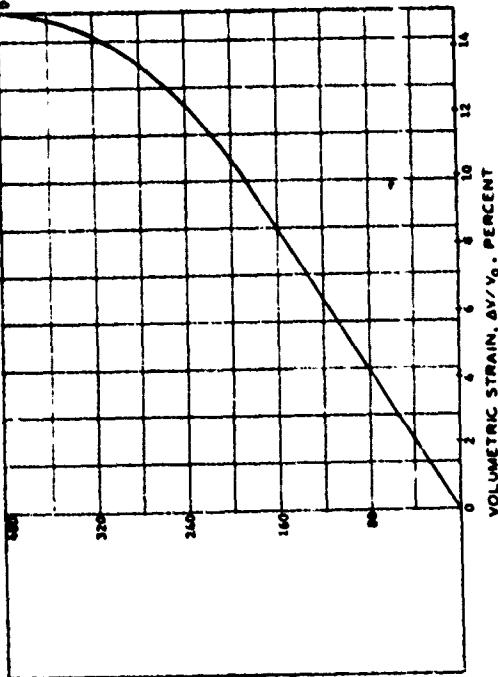
PROJECT <u>Geotechnical Institute of Technology B-602</u>	
Contract No. <u>BAC339-67-C-0051</u>	
AREA	
BORING NO.	SAMPLE NO. <u>223</u>
DEPTH EL	DATE
LL	PL
PI	17
PI	19
DESCRIPTION <u>Wetzel Hill City</u>	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	12.49	%
VOID RATIO	0.81	
SATURATION	50	41.73 %
DRY DENSITY	72	99.19 PCF
WET DENSITY	77	104.02 PCF
SPECIFIC GRAVITY	Gs	2.70
SPECIMEN DIAMETER	D0	3.90 CM
SPECIMEN HEIGHT	H0	7.50 CM

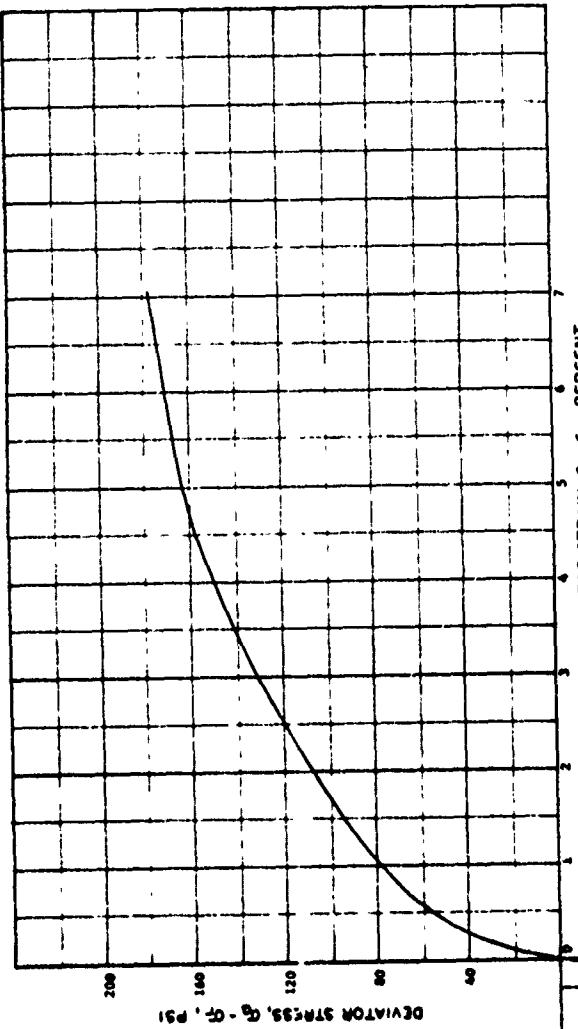


HYDROSTATIC COMPRESSION PHASE



VOLUMETRIC STRAIN, $\Delta V/V_0$ - PERCENT

DEVIATOR STRAIN, ϵ_d - PERCENT



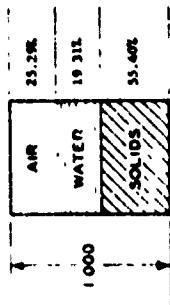
TRIAXIAL SHEAR PHASE

DEVIATOR STRAIN, ϵ_d - PERCENT

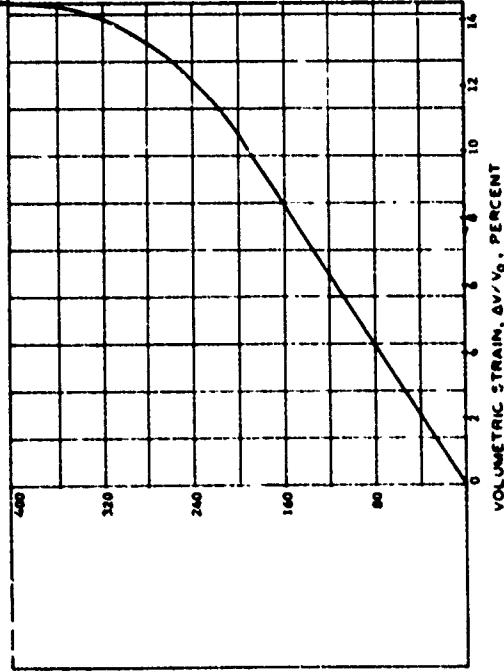
PROJECT	Ge Tech B-602
Contract No.	DAC39-67-C-0031
AREA	SAMPLE NO. 211
BORING NO	DATE
DEPTH	
EL.	
LL	PL
	17
	P1
	19

DESCRIPTION: Marsching Mill Clay

WATER CONTENT	W	12.91	%
VOID RATIO	e ₀	0.80	
SATURATION	S _g	43.31	%
DRY DENSITY	γ _d	91.34	pcf
WET DENSITY	γ _w	105.39	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER D ₀	D ₀	3.69	cm
SPECIMEN HEIGHT H ₀	H ₀	7.61	cm

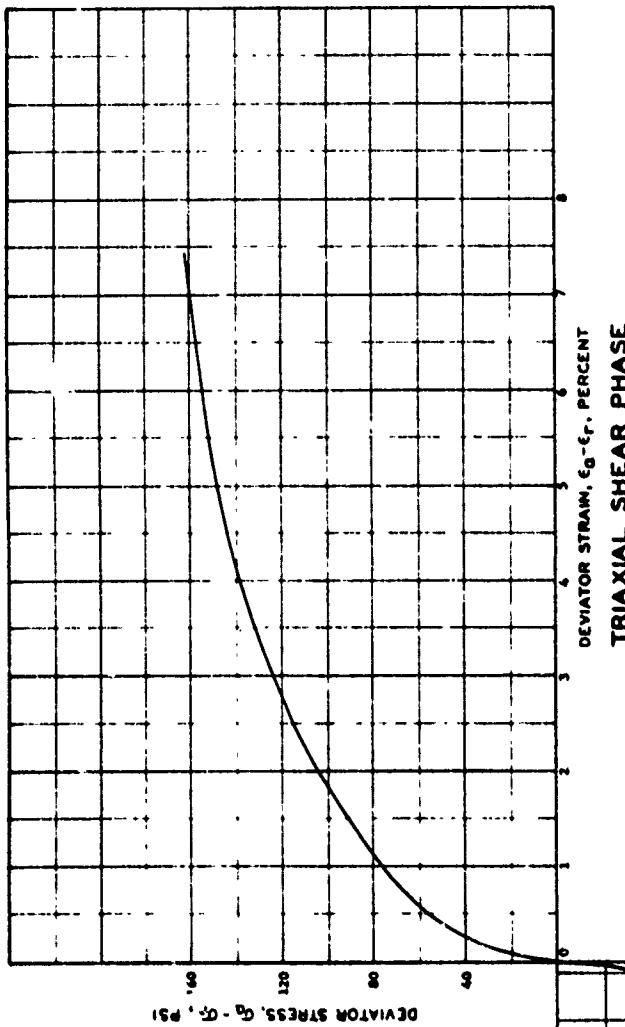


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

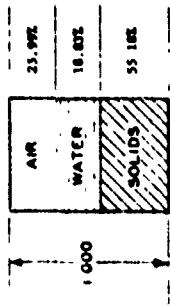
183



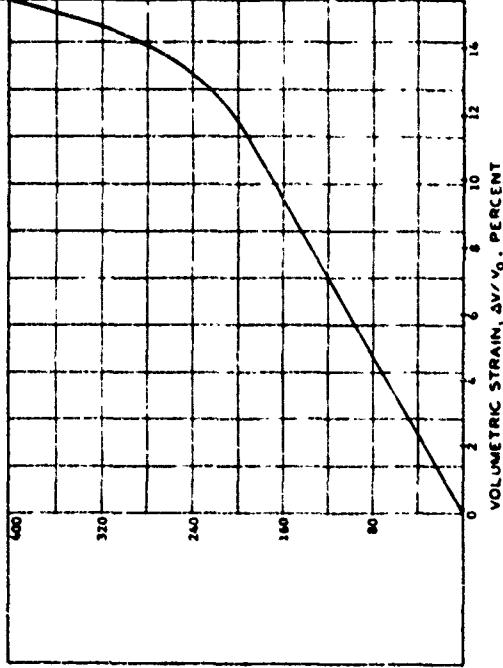
DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Geotech B-402
Coreface No.	DM0405-07-C-0031
AREA	
BORING NO.	
DEPTH	
EL.	
L.L.	36
P.L.	17
P _f	19
DESCRIPTION Wachapreague Mill Clay	

WATER CONTENT	W	12.64	%
VOID RATIO	e ₀	0.61	
SATURATION	S _o	42.01	%
DRY DENSITY	γ_d	62.97	pcf
WET DENSITY	γ	106.72	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

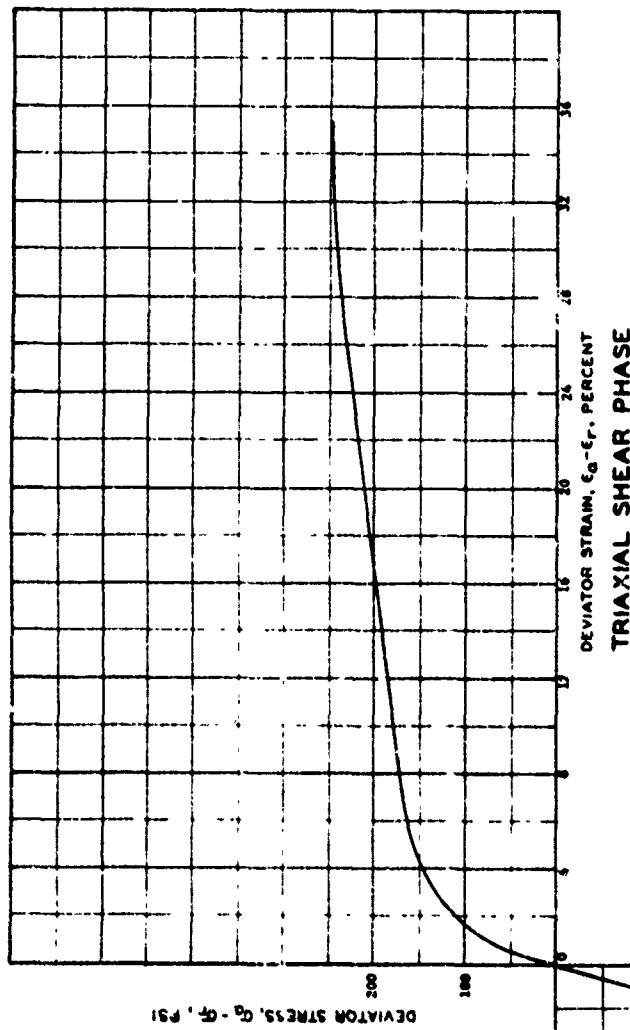


HYDROSTATIC COMPRESSION PHASE



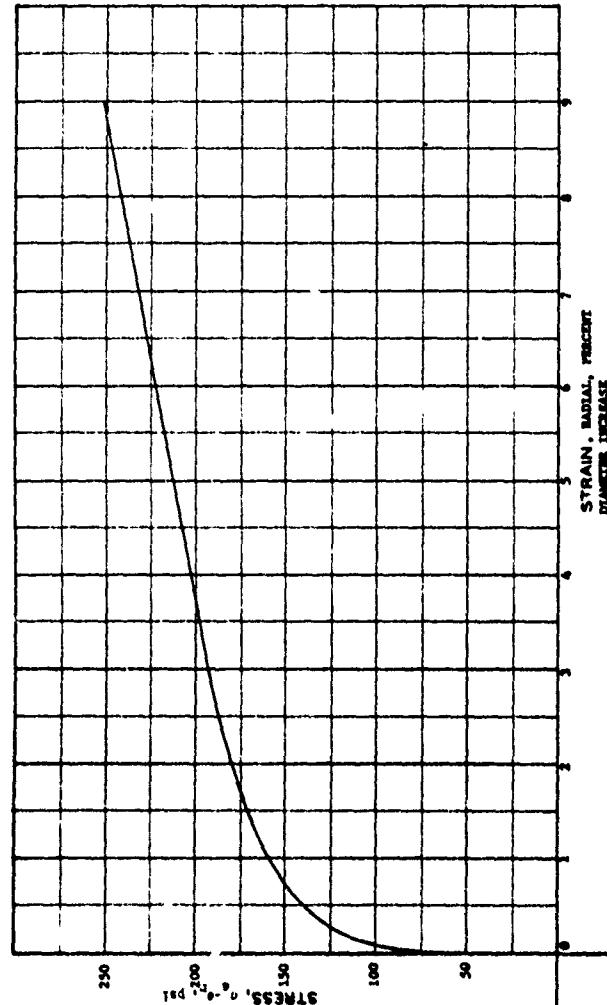
HYDROSTATIC PRESSURE, P, PSI

184



DEVIATOR STRAIN, $\epsilon_d - \epsilon_c$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	G-10b 1-62
Contract No. DMCA967-C-0051	
AREA	
BORING NO.	SAMPLE NO. 218
DEPTH	DATE
EL.	PL. U. PI. 19
LL	
DESCRIPTION: Maccline 3011 G-19	



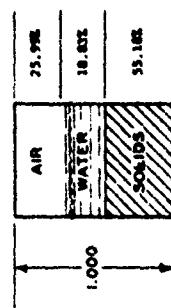
STRAIN, RADIAL, PERCENT
DIAMETER INCREASE

PROJECT	Ge Tech S-602
Contract No.	DA-239-67-C-0031
<hr/>	
AREA	
BORING NO.	SAMPLE NO. 218
DEPTH E.L.	DATE
L.L. 36	PL 17 P1 19

DESCRIPTION Holcim Mill City

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

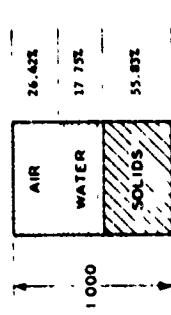
WATER CONTENT	W	12.6%
VOID RATIO	e_0	0.81
SATURATION	S_o	42.01%
DRY DENSITY	γ_d	92.97pcf
WET DENSITY	γ	104.72pcf
SPECIFIC GRAVITY	C_g	2.70
SPECIMEN DIAMETER	D_o	3.90 cm
SPECIMEN HEIGHT	H_o	7.62 cm



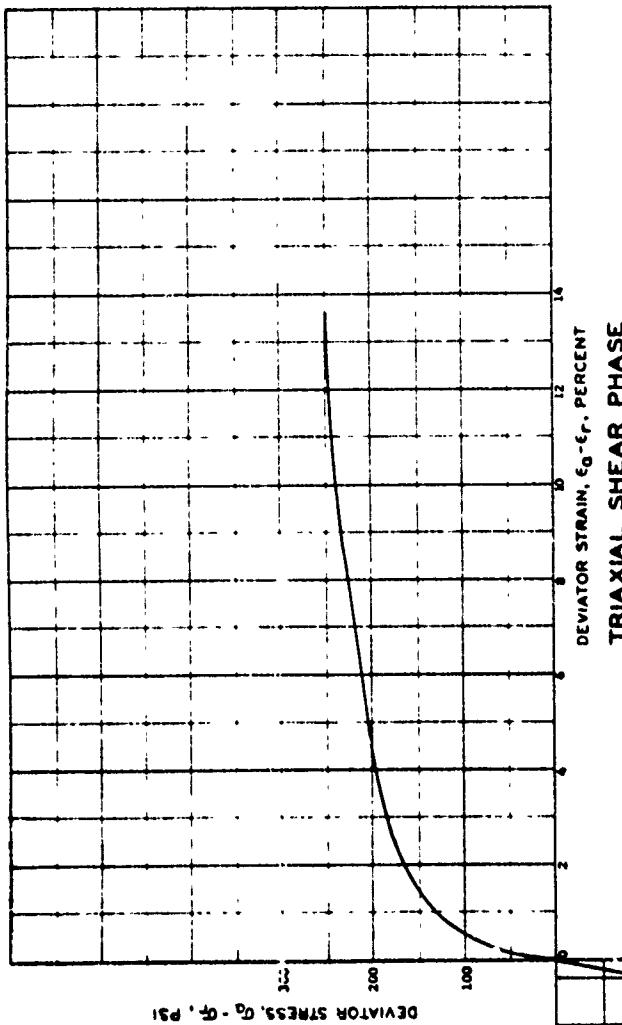
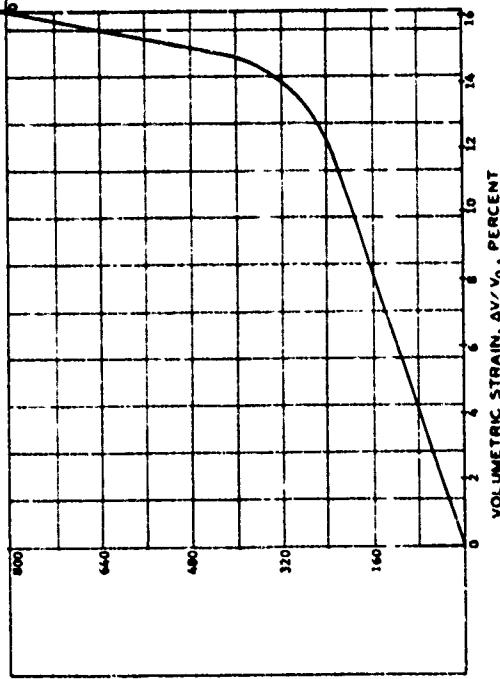
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P , PSI

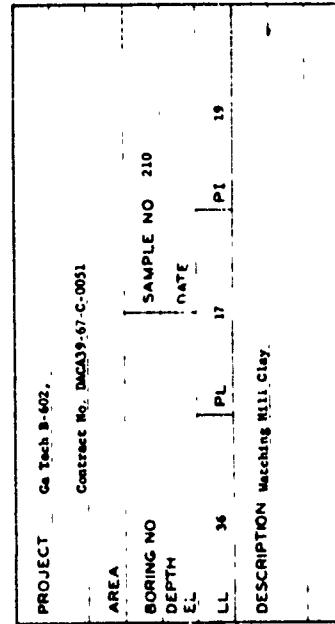
WATER CONTENT	W	11.77	%
V.C:D RATIO	e ₀	0.79	
SATURATION	S ₀	40.17	%
DRY DENSITY	D _d	54.07	pcf
WET DENSITY	D _w	105.14	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.59	cm



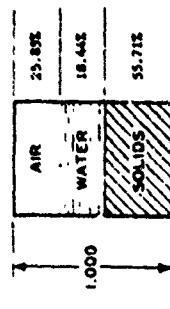
HYDROSTATIC COMPRESSION PHASE



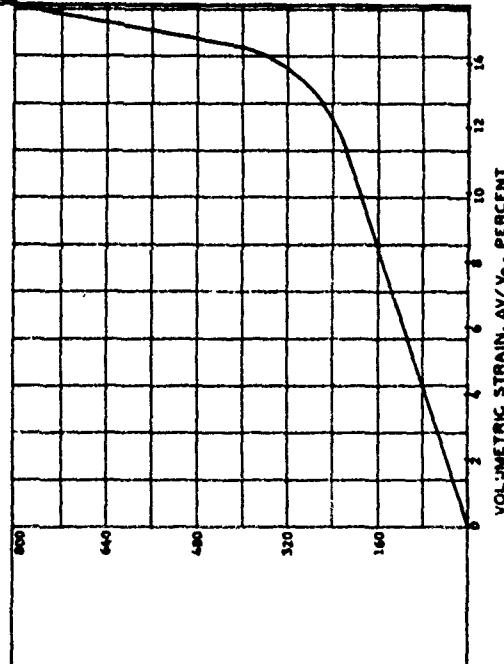
TRIAXIAL SHEAR PHASE



WATER CONTENT	W	12.26 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	41.63 %
DRY DENSITY	γ_d	93.87pcf
WET DENSITY	γ_w	105.37pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	2.00 cm

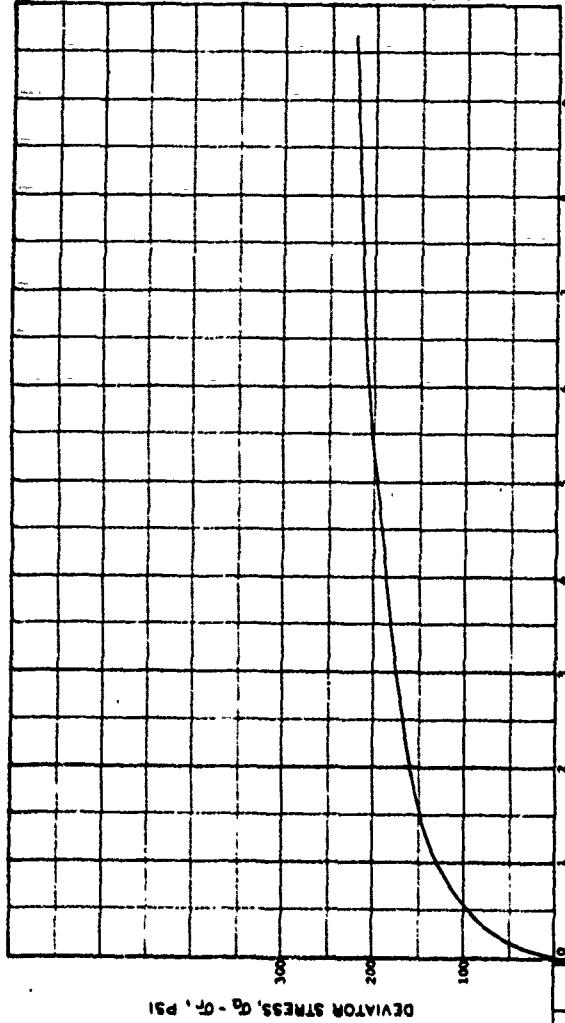


HYDROSTATIC COMPRESSION PHASE



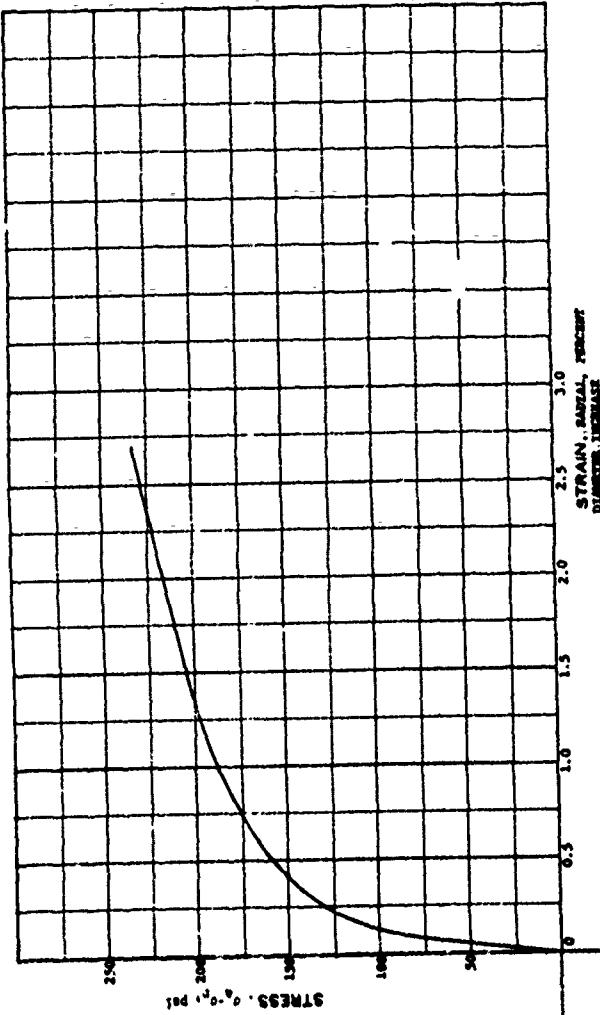
HYDROSTATIC PRESSURE, P, PSI

187

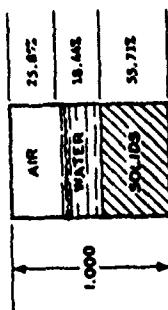


TRIAXIAL SHEAR PHASE

PROJECT	Geotech B-402;
Contract No. DIA09-67-C-0061	
AREA	
BORING NO.	SAMPLE NO. 216
DEPTH	DATE
EL.	
LL	PL
34	17
	PL
	19
DESCRIPTION Watchdog Hill Clay	



WATER CONTENT	W	12.26 %
VOID RATIO	e₀	0.79
SATURATION	S₀	41.63 %
DRY DENSITY	D₀	99.47 PCF
WET DENSITY	γ	105.37 PCF
SPECIFIC GRAVITY	G₀	2.70
SPECIMEN DIAMETER	D₀	3.50 CM
SPECIMEN HEIGHT	H₀	7.60 CM



HYDROSTATIC COMPRESSION PHASE

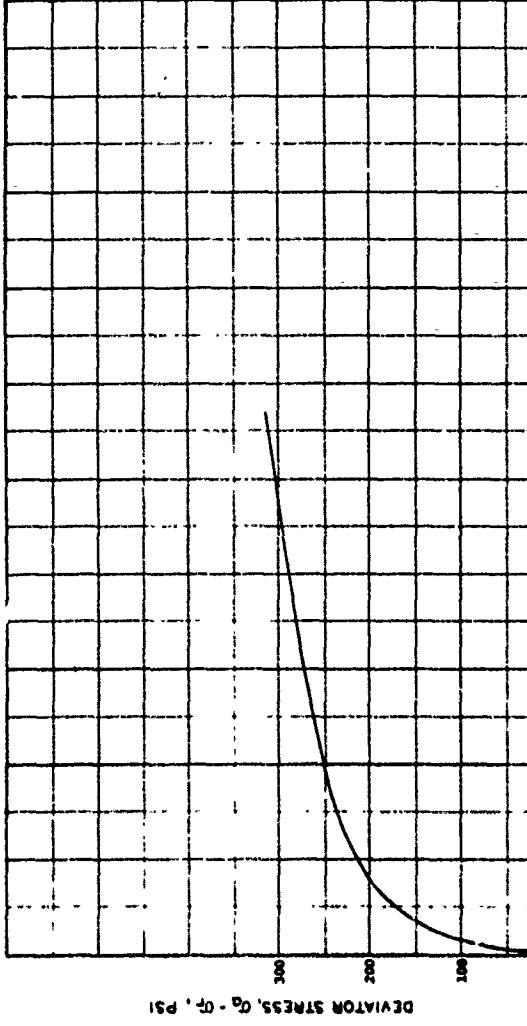
HYDROSTATIC PRESSURE, P, PSI

188

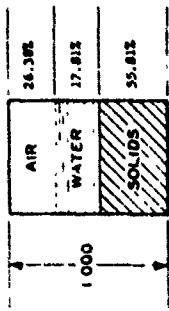
PROJECT Ge-Tech 3-602:	
Contract No. 30CA159-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 214
DEPTH	DATE
EL.	LL PL 17 P1 19
DESCRIPTION Weathered Sill Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

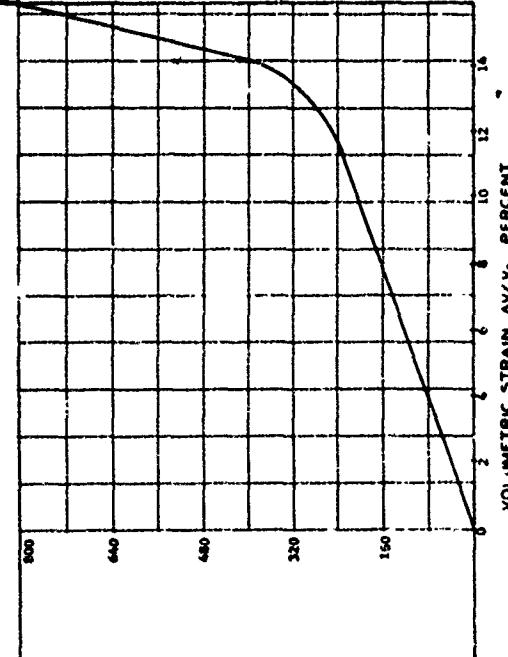
WATER CONTENT	W	11.82	%
VOID RATIO	e_0	0.79	
SATURATION	S_o	40.29	%
DR. DENSITY	γ_d	94.02	pcf
WET DENSITY	γ_w	105.13	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.60	cm



DEVIATOR STRAIN, $\epsilon_d - \epsilon_3$, PERCENT
TRIAXIAL SHEAR PHASE



HYDROSTATIC COMPRESSION PHASE

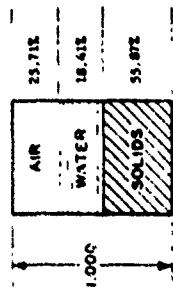


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

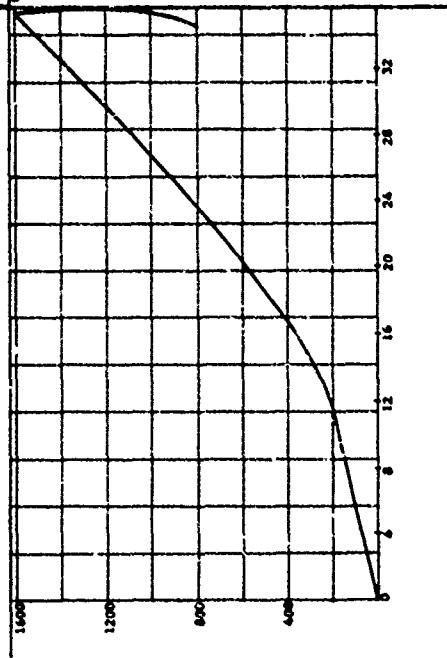
PROJECT	St. Joe's B-602
Contract No.	DMC159-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 213
DEPTH	DATE
EL.	
LL	PL 17 P1 19

DESCRIPTION: Matching Mill Clay

WATER CONTENT	W	12.20	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	41.72	%
DRY DENSITY	γ_d	94.14	pcf
WET DENSITY	γ	105.82	pcf
SPECIFIC GRAVITY	G _s	2.10	
SPECIMEN DIAMETER	D ₀	3.69	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

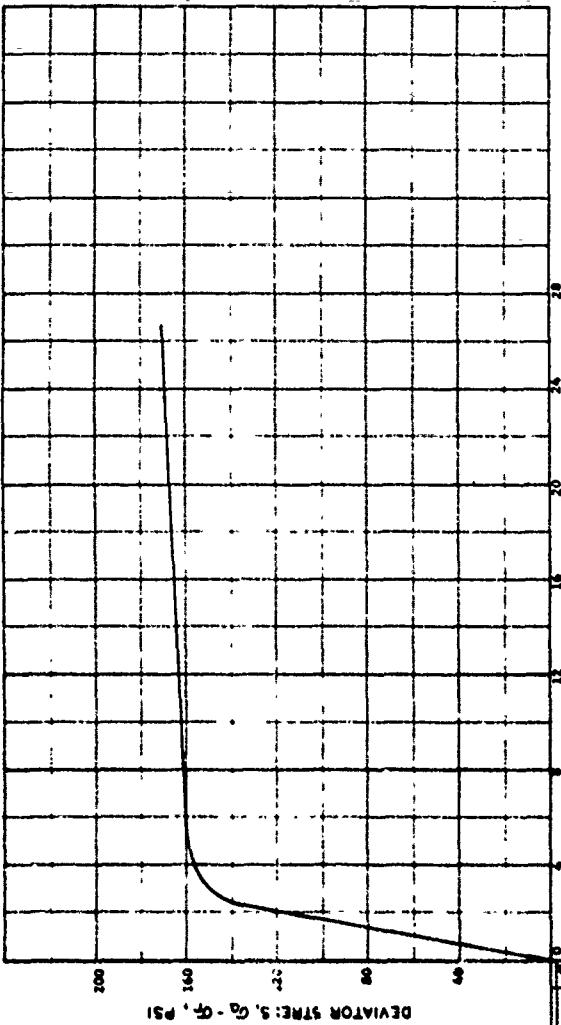


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

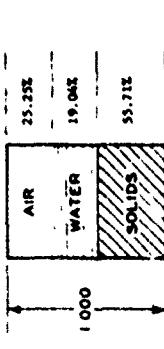
190



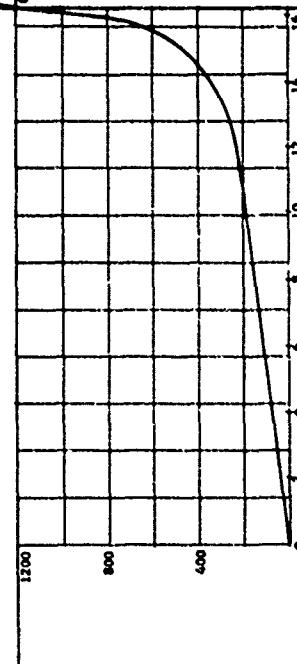
TRIAXIAL SHEAR PHASE

PROJECT	Co. Tech. S-002
CONTRACT NO.	DNCA39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 256
DEPTH	DATE
EL.	
LL	PL 17 PI 19
DESCRIPTION: <u>Machias Hill clay</u>	
Triaxial Test, Compacted to 1600 psi, Unloaded to 800 psi	
Shear at 800 psi	

WATER CONTENT	W	12.56
VOID RATIO	e ₀	0.79
SATURATION	S _o	42.9%
DRY DENSITY	γ_d	99.85
WET DENSITY	γ_w	105.73
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
INITIAL HEIGHT	H ₀	7.58 CM

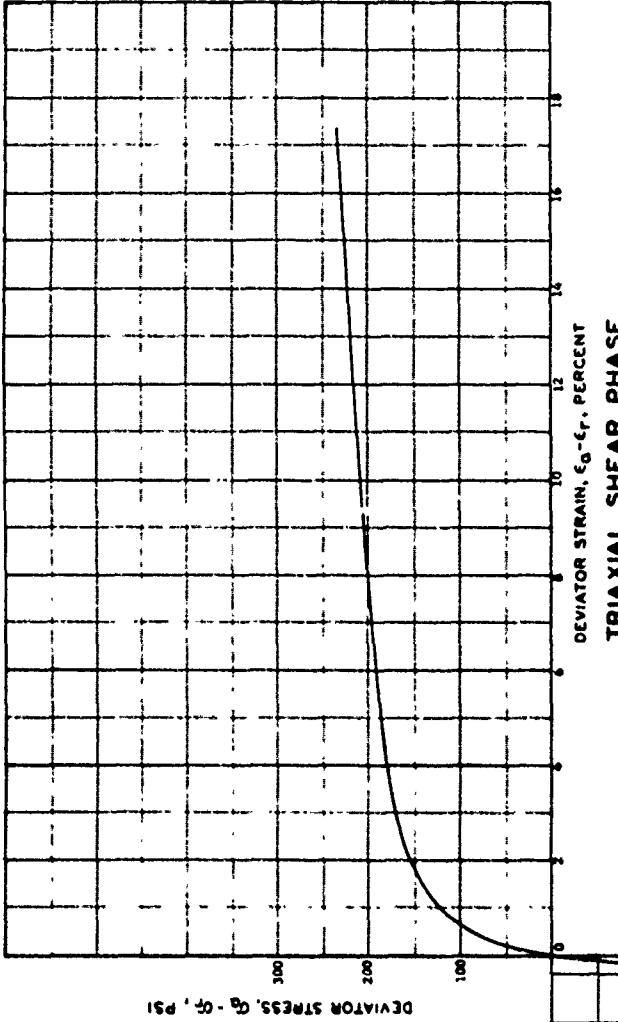


HYDROSTATIC COMPRESSION PHASE



H. HYDROSTATIC PRESSURE, P, PSI

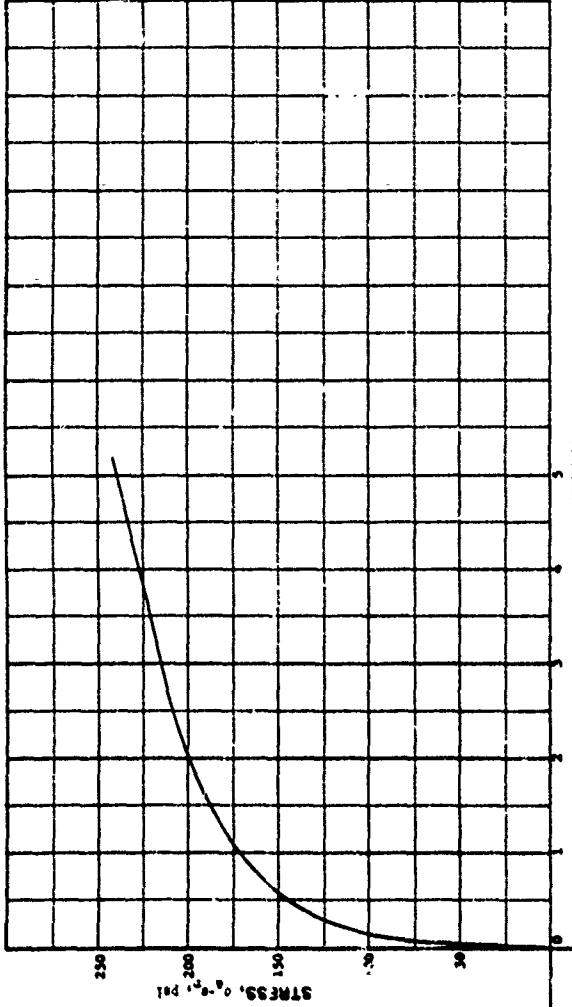
191



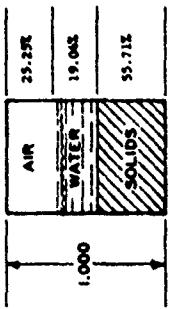
DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Geotech 8-602:
Contract No. 10437-C-0051	
AREA	—
BORING NO.	—
DEPTH	—
EL.	—
LL	36
PL	17
P ₁	19
DESCRIPTION: Witching Hill Clay	

WATER CONTENT	W%	12.65	%
VOID RATIO	e _o	0.79	
SATURATION	S _w	42.99	%
DRY DENSITY	γ _d	99.85	pcf
WET DENSITY	γ _w	105.73	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _s	3.50	cm
SPECIMEN HEIGHT	H _s	7.58	cm



HYDROSTATIC COMPRESSION PHASE



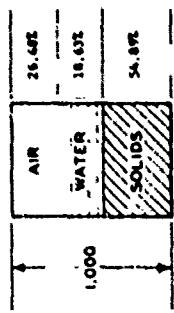
HYDROSTATIC PRESSURE, P, PSI

192

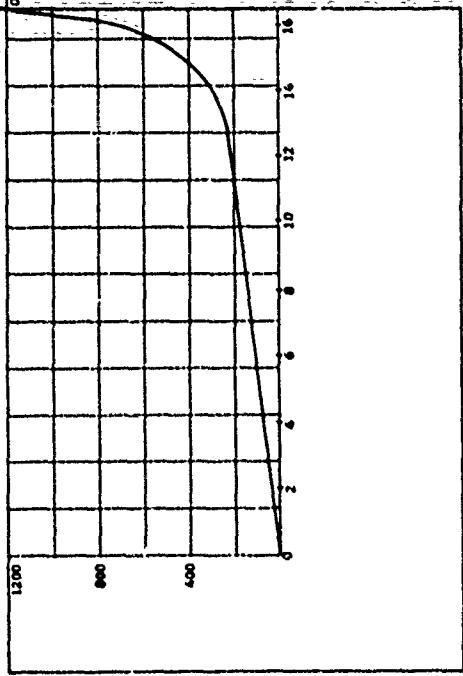
PROJECT	Geotech B-602:			
Contract No. DACA39-67-C-0051				
AREA				
BORING NO.	SAMPLE NO. 200			
DEPTH	DATE			
EL.				
LL	PL	L7	P1	19
DESCRIPTION Muckling Mill Clay				

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.57 %
VOID RATIO	e ₀	0.82
SATURATION	S ₀	41.30 %
DRY DENSITY	-	7.6
WET DENSITY	-	7.7
SPECIFIC GRAVITY	G ₀	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.60 CM

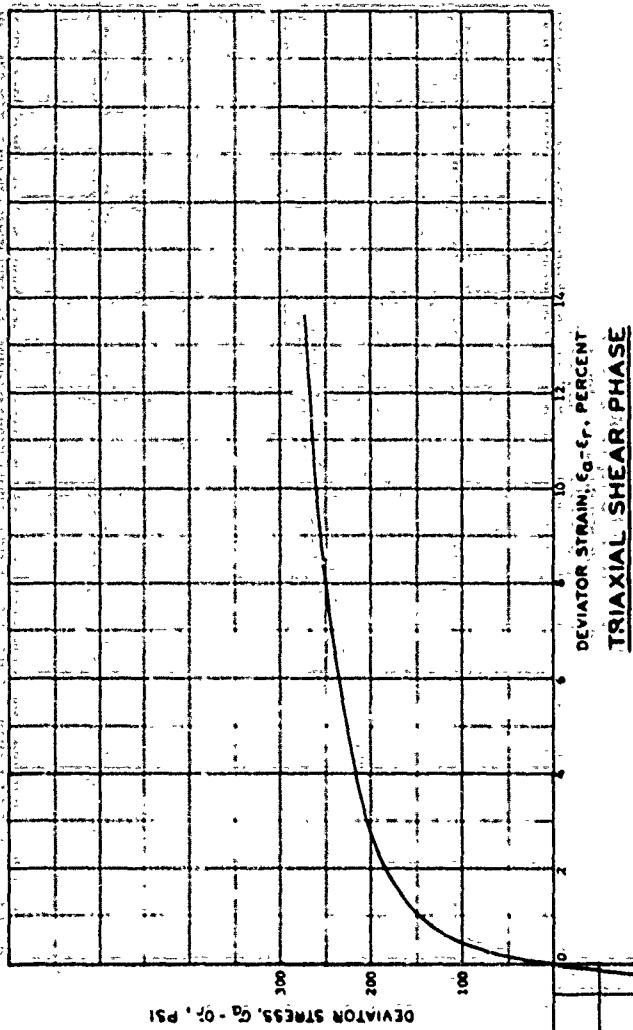


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

193

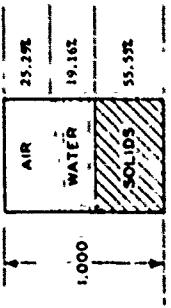


TRIAXIAL SHEAR PHASE

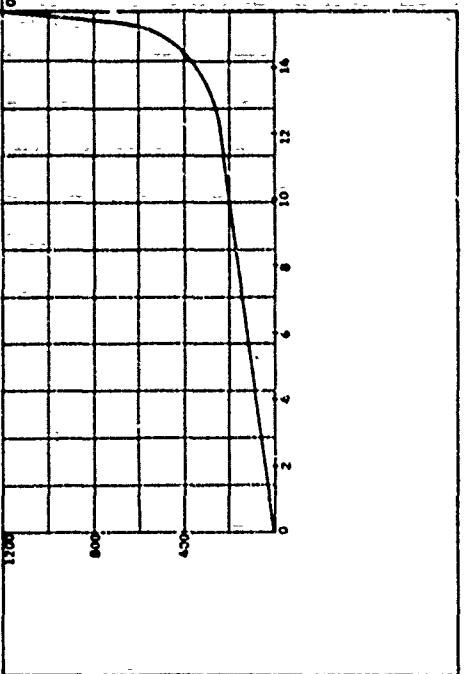
PROJECT	Geotech 3-602
Contract No. DIA39-67-C-0051	
AREA	
BORING NO.	
DEPTH	
EL.	
LL.	36.
PL.	17.
DATE	01-19-
DESCRIPTION: Wet sand mixture	

VOLMETRIC STRAIN, AV/V₀, PERCENT

WATER CONTENT	W	12.77	%
VOID RATIO	e _o	0.80	
SATURATION	S _o	43.10	%
DRY DENSITY	γ_d	93.59	pcf
WET DENSITY	γ_w	105.55	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.69	cm
SPECIMEN HEIGHT	H _o	7.62	cm

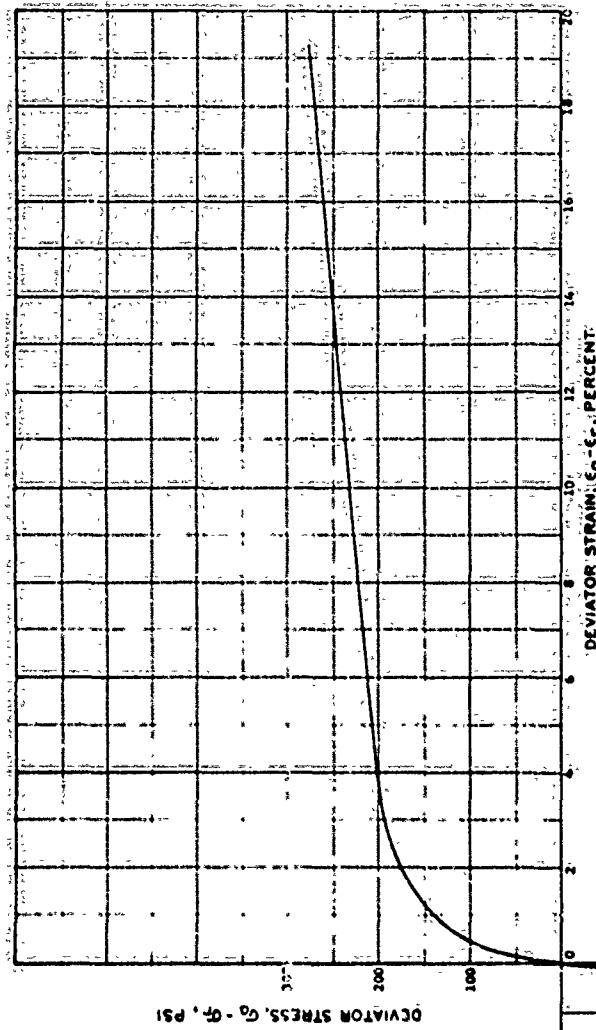


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

194



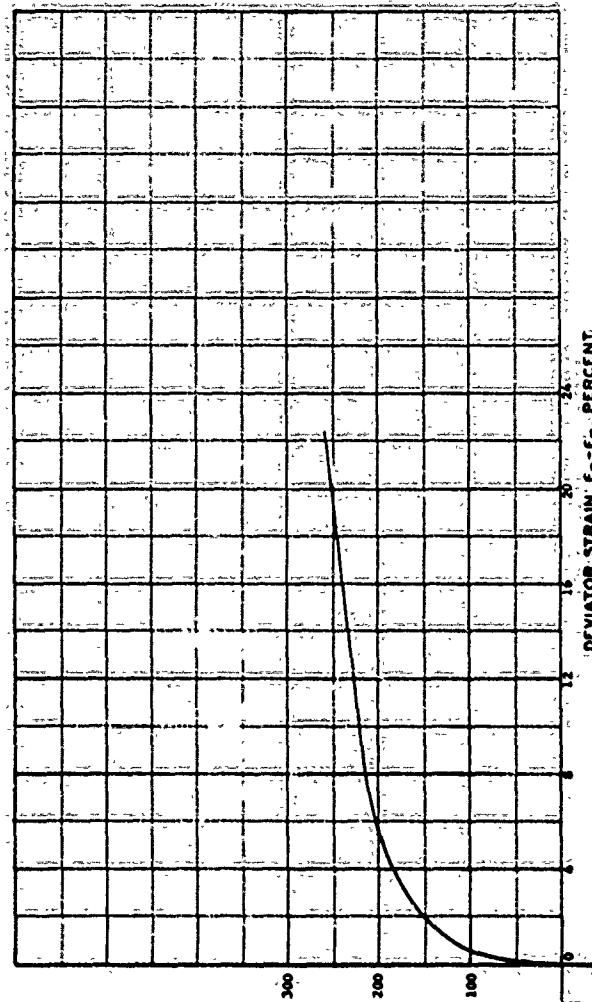
TRIAXIAL SHEAR PHASE

PROJECT	Geotech 3-02:
Contract No.: DCA39-67-0-0052:	
AREA	
BORING NO.	SAMPLE NO.: 209
DEPTH E.L.	DATE:
LL	P.L.
PI	19
VOLUME	177
DESCRIPTION: Weathered Mill Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

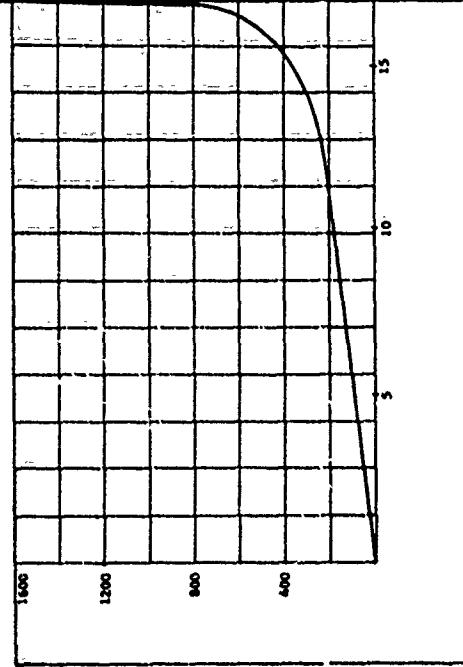
WATER CONTENT	W	12.91	%
VOID RATIO	e ₀	0.64	
SATURATION	S _o	41.72	%
DRY DENSITY	D _d	91.77	pcf
WET DENSITY	D _w	103.62	pcf
SPECIFIC GRAVITY	G _s	2.70	
LEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.60	cm

DEVIATOR STRESS, Q₆-Q₄, PSI



TRIAXIAL SHEAR PHASE

HYDROSTATIC COMPRESSION PHASE



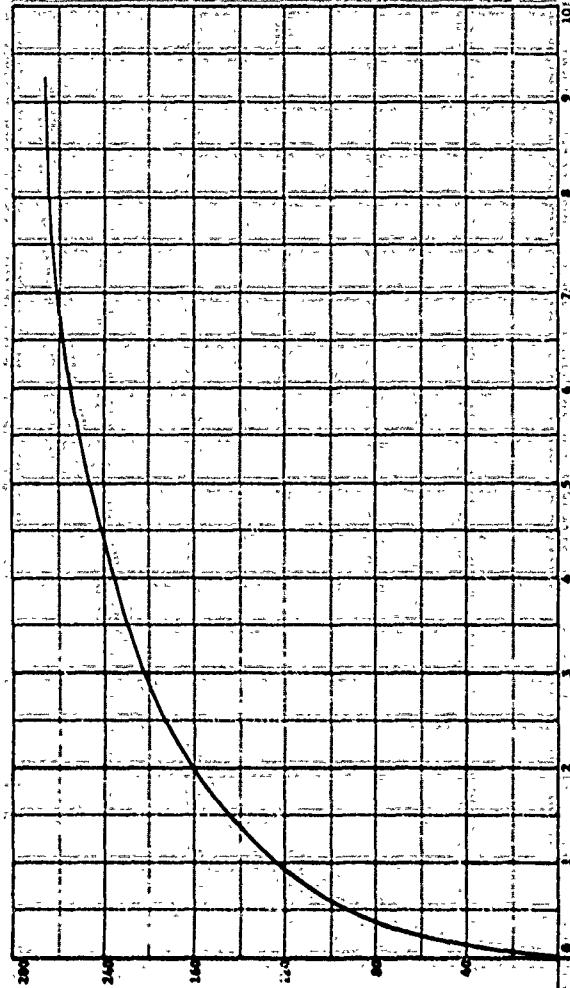
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Co. Test 1403
Contract No.	DMGAE2-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 206
DEPTH	DATE
EL.	L.L. 36 PL. 17 PT. 7.19
DESCRIPTION: Machine Mill Clay	

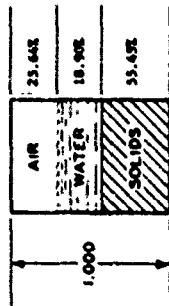
HYDROSTATIC PRESSURE, P, PSI

WATER CONTENT	W	12.63	%
VOID RATIO	e ₀	0.90	
SATURATION	S ₀	42.43	%
DRY DENSITY	D _d	93.42	pcf
WET DENSITY	γ	105.22	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _s	2.49	cm
SPECIMEN HEIGHT	H _s	7.63	cm

DEVIATOR STRESS, σ_d = σ_f, psi

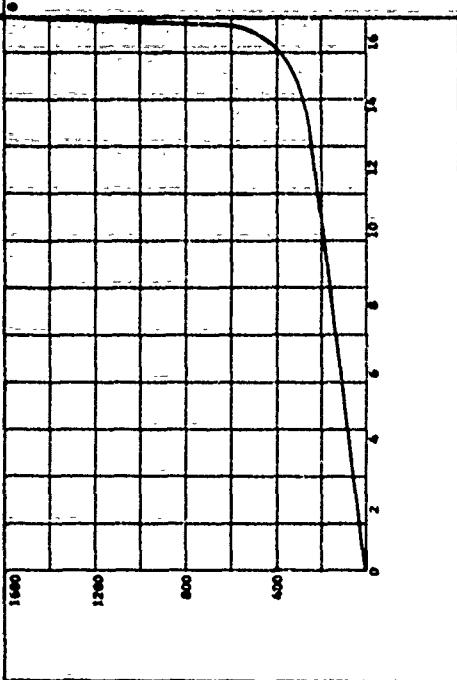


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, psi

196

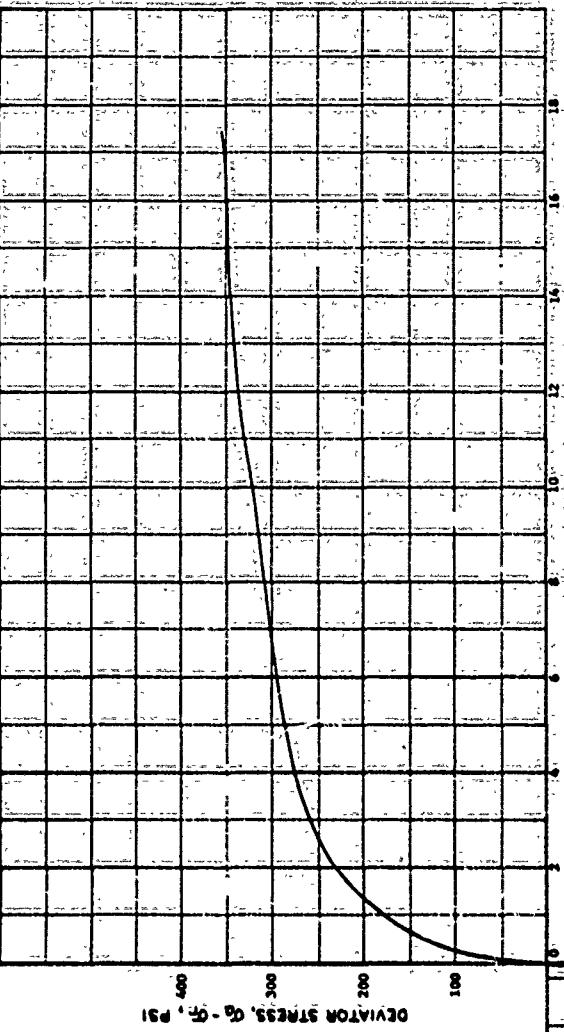


VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

PROJECT: Serial Number of Test: 3-02			
Contract No.: MCA32-67-C-0031			
AREA:			
BORING NO.	SAMPLE NO.: 249	DATE	
DEPTH EL.			
L.L.	PL.	PI:	19

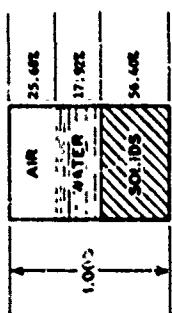
DESCRIPTION: Machine Hill Cleve

WATER CONTENT	W	11.77	%
VOID RATIO	e ₀	0.77	
SATURATION	S _o	41.11	%
DRY DENSITY	D _d	95.00	pcf
WET DENSITY	D _w	106.21	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.47	cm
SPECIMEN HEIGHT	H _o	7.63	cm



TRIAXIAL SHEAR PHASE

HYDROSTATIC COMPRESSION PHASE

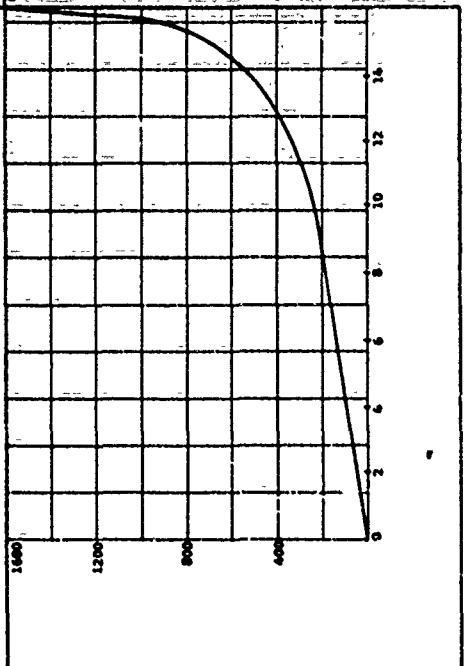


HYDROSTATIC PRESSURE, P , PSI

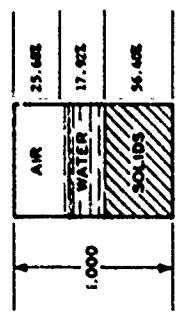
197

PROJECT	Co. Sub-B-002
Contract No. BMAS9-67-C-C-41	
AREA	
BORING NO.	SAMPLE NO. 2501
DEPTH EL.	DATE
ft.	PL
36	17
	19
DESCRIPTION: Washed Manganese Clay	

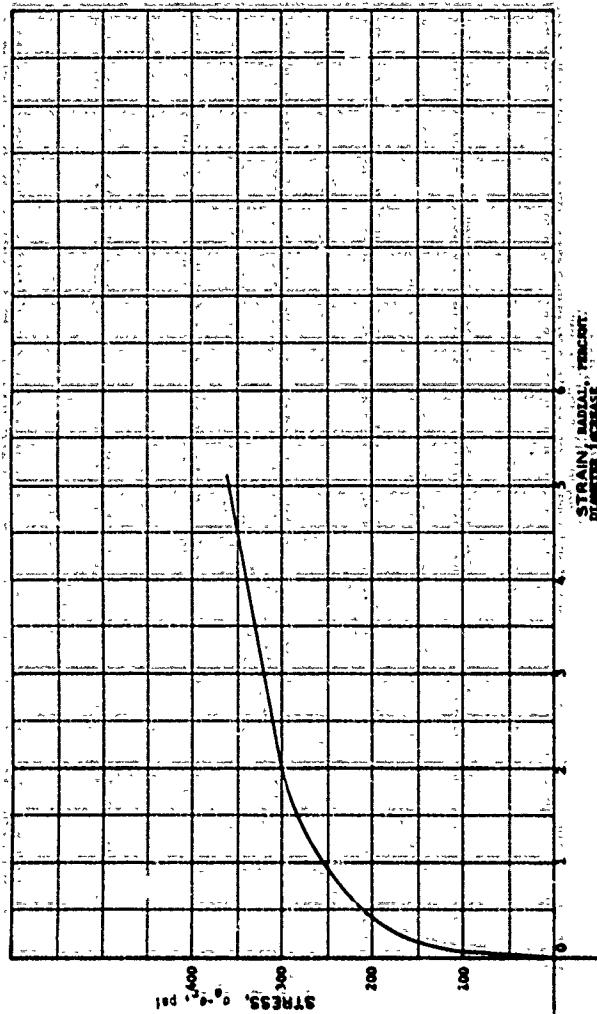
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	11.77	%
VOID RATIO	e_0	0.77	
SATURATION	S_0	41.11	%
DRY DENSITY	γ_d	95.00	pcf
WET DENSITY	γ	106.21	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.67	cm
SPECIMEN HEIGHT	H_0	7.63	cm



HYDROSTATIC COMPRESSION PHASE



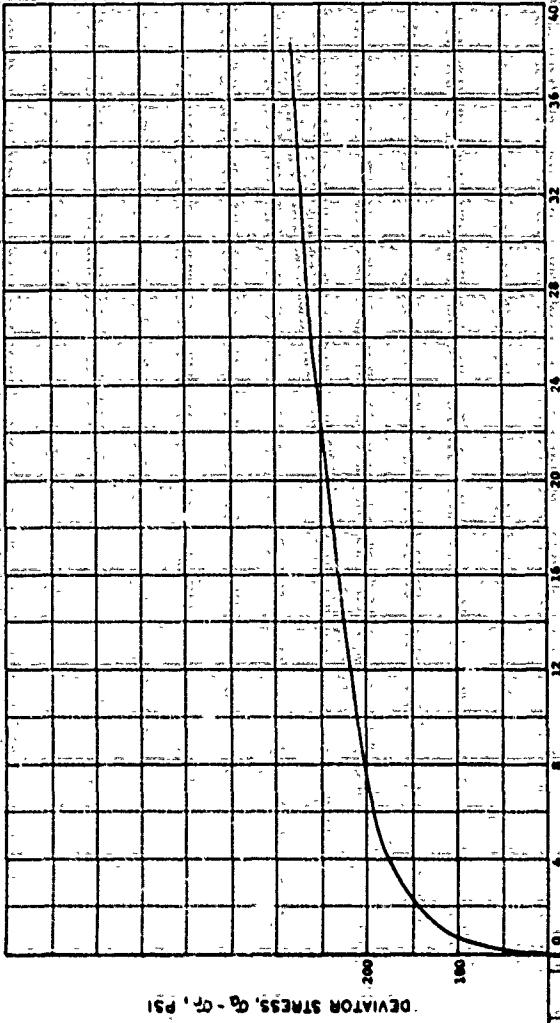
HYDROSTATIC PRESSURE, P, PSI

198

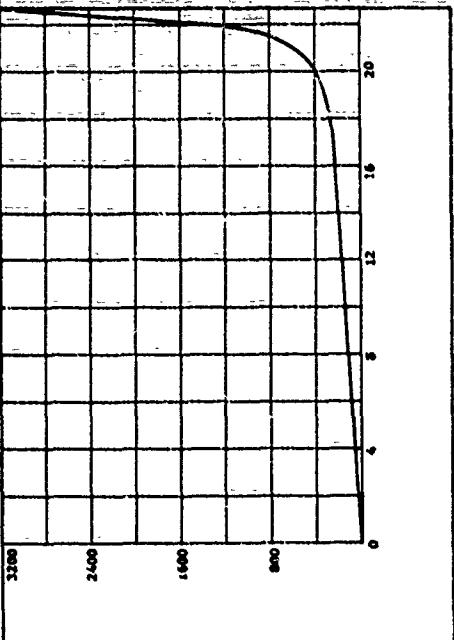
PROJECT	Geotech 8-602	SAMPLE NO.	250
Contract No.	DCAS3-67-C-0031	DATE	
AREA			
BORING NO.			
DEPTH E.L.			
LL	36	PL	17
			PSI
			19
DESCRIPTION	Weathering Mill Clay		

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	13.26	%
VOID RATIO	e ₀	0.80	
SATURATION	s ₀	64.47	%
DRY DENSITY	γ_d	95.40	pcf
WET DENSITY	γ_w	105.76	pcf
SPECIFIC GRAVITY	G _s	2.72	
APPELLEIN DIAMETER	D ₀	3.50	CM
SPECIMEN HEIGHT	H ₀	7.60	CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, p. 93

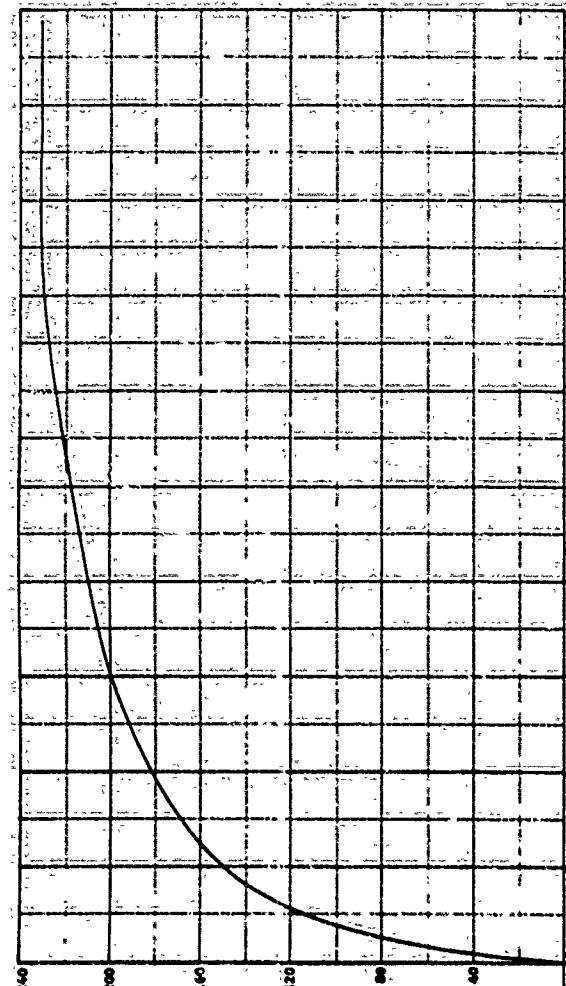
199

PROJECT: Central Institute of Technology S-502		SAMPLE NO.: 208		DATE: 17-10-1979	
Contract No. DC-139-67-4-0031					
AREA:	BORING NO.	DEPTH EL.	PL.	PT.	19
		LL	36		
<u>DESCRIPTION: Malleable Mill Clay</u>					

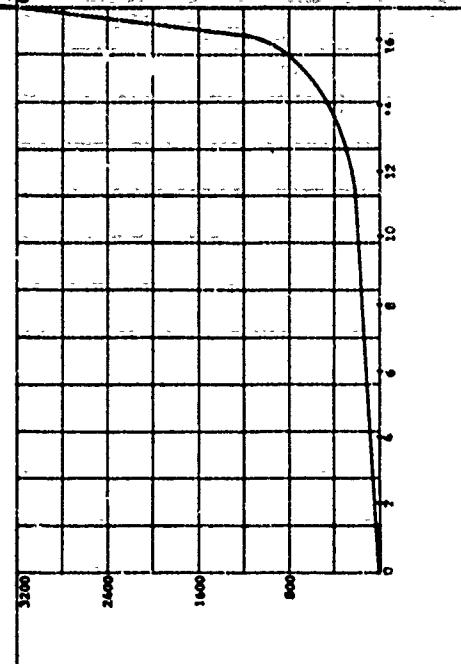
TRIAXIAL SHEAR PHASE DEVIATOR STRAIN, ϵ_0 — ϵ_r , PERCENT

WATER CONTENT	W	12.57	%
VOID RATIO	e ₀	0.80	
SATURATION	S _s	42.36	%
DRY DENSITY	D _d	91.76	pcf
WET DENSITY	D _w	105.55	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm

DEVIATOR STRESS, Q_d - Q_p, PSI



HYDROSTATIC COMPRESSION PHASE

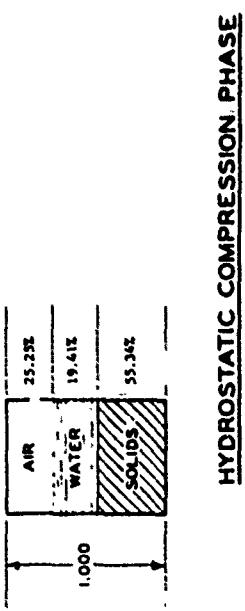


HYDROSTATIC PRESSURE, P, PSI

200

PROJECT	Co-Tech-3-82	SAMPLE NO.	251
Contract No. DIA039-97-C-0031		DATE	10/17/97
AREA	BORING NO.	EL.	LL.
		117	197
DESCRIPTION: Muckling Hill Clay			

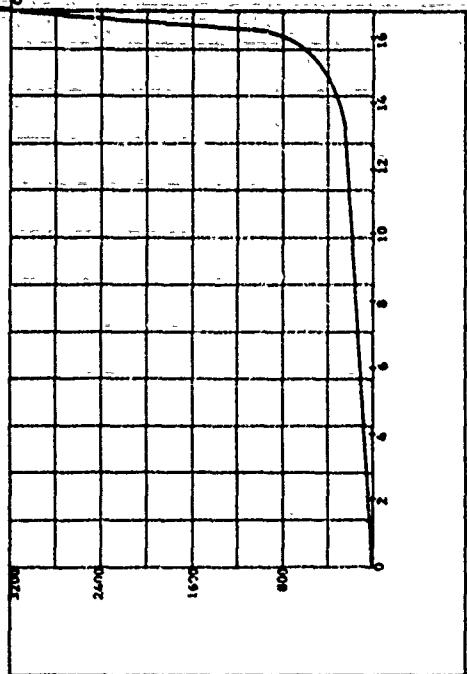
WATER CONTENT	W	12.99	%
VOID RATIO	e ₀	0.81	
SATURATION	S _o	43.44	%
DRY DENSITY	γ_d	93.23	pcf
WET DENSITY	γ_w	105.3*	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



HYDROSTATIC PRESSURE, P, PSI

201

TRIAXIAL SHEAR PHASE

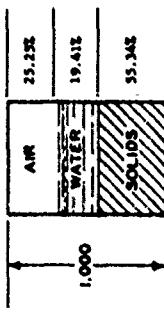


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

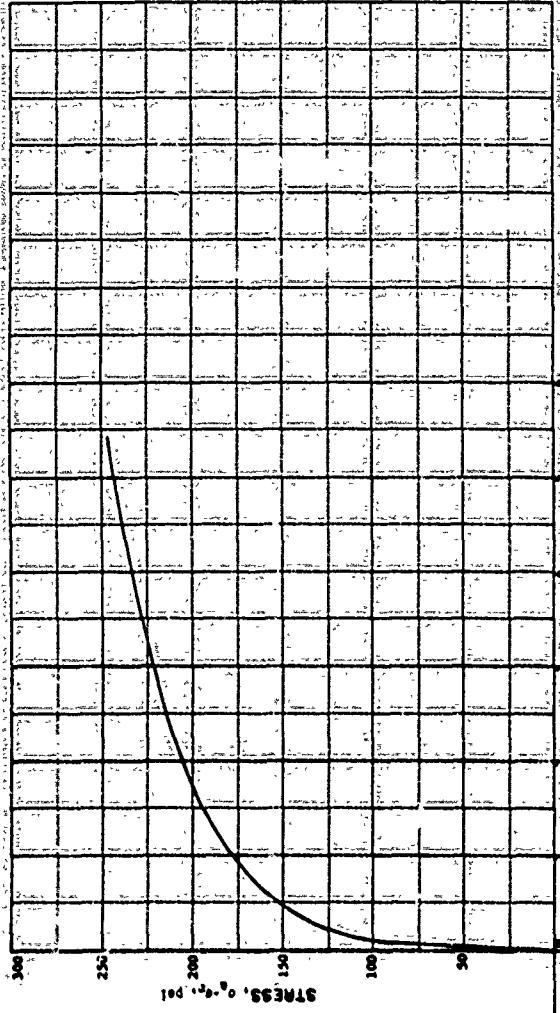
PROJECT	CA 700 3-502
AREA	Contract No. DIA031-87-C-0031
BORING NO.	SAMPLE NO. 253
DEPTH	DATE
EL.	LL.
PL.	PL.
17	19

DESCRIPTION: Wetting, H1 clay

WATER CONTENT	W	12.99 %
VOID RATIO	e ₀	0.81
SATURATION	S _o	43.46 %
DRY DENSITY	γ_d	98.23pcf
WET DENSITY	γ_w	105.35pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE



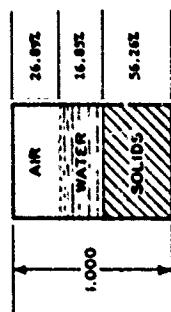
HYDROSTATIC PRESSURE, P, PSI

202

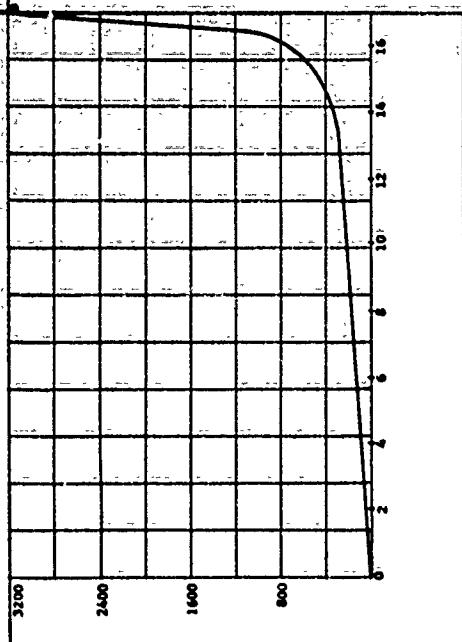
PROJECT:	Co. Tech B-4021	
	(Contract No.: MACA31-67-C-0031)	
AREA		
BORING NO.	SAMPLE NO. 233	
DEPTH EL.	DATE	
LL.	PL.	PT.
DESCRIPTION	Bleeding Silty Clay	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

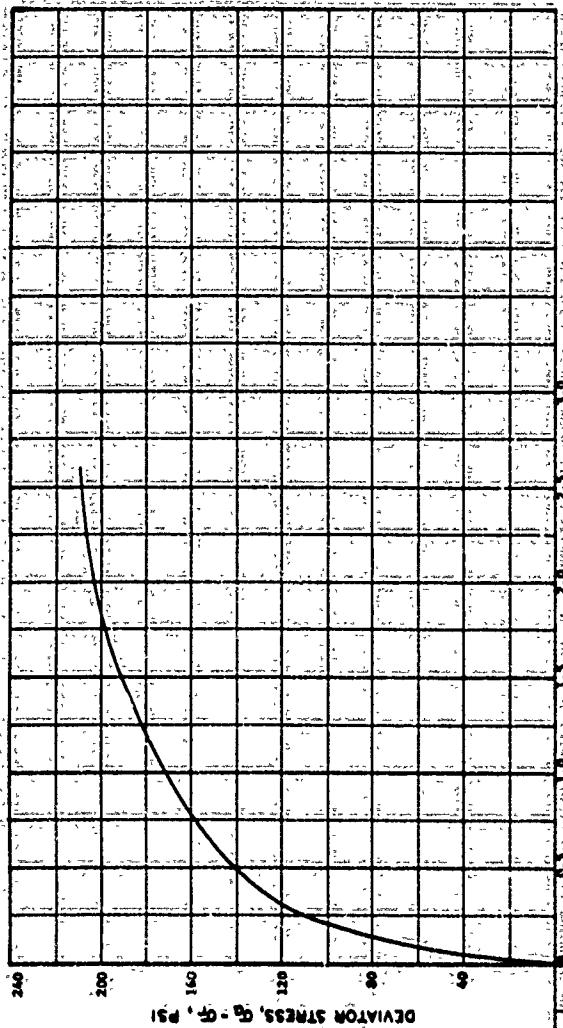
WATER CONTENT	W	11.09	%
VOID RATIO	e ₀	0.78	
SATURATION	S _o	36.52	%
DRY DENSITY	γ_d	94.79	pcf
WET DENSITY	γ_w	105.31	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



HYDROSTATIC COMPRESSION PHASE



VOLUMETRIC STRAIN, AV/V₀, PERCENT

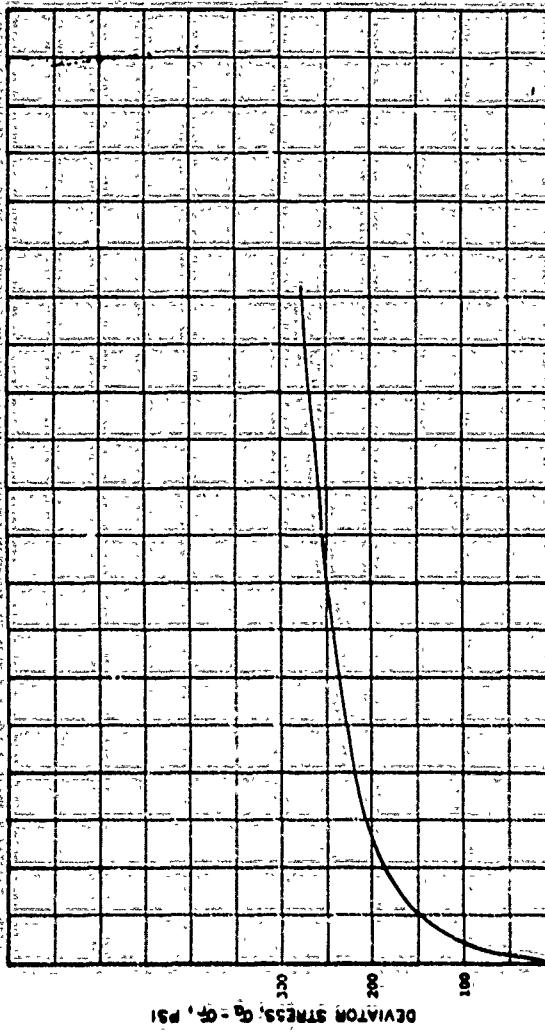


1.5
1.0
0.5
0
2000
1500
1000
500
0
DEVIATOR STRAIN, E₀ - E_f, PERCENT
TRIAXIAL SHEAR PHASE

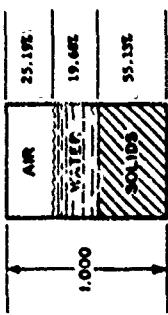
PROJECT	Geotech 2-402
Contract No.	MCASS-07-C-0051
AREA	
BORING NO.	
DEPTH, EL.	
LL	
PL	
SAMPLE NO.	268
DATE	19
DESCRIPTION	Weathered Mill Cray

HYDROSTATIC PRESSURE, P, PSI

WATER CONTENT	w	13.22	%
VOID RATIO	e_0	0.81	
SATURATION	S_g	43.66	%
DRY DENSITY -	γ_d	92.89	pcf
WET DENSITY -	γ_w	105.16	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.49	cm
SPECIMEN HEIGHT	H_0	7.63	cm

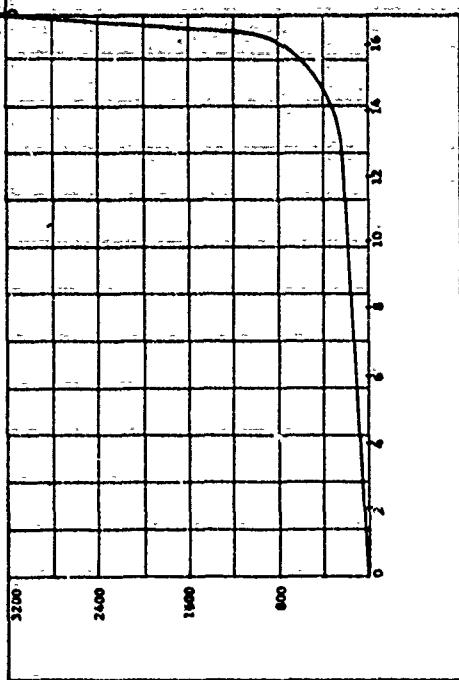


HYDROSTATIC COMPRESSION PHASE



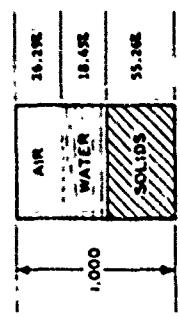
HYDROSTATIC PRESSURE, P, PSI

204

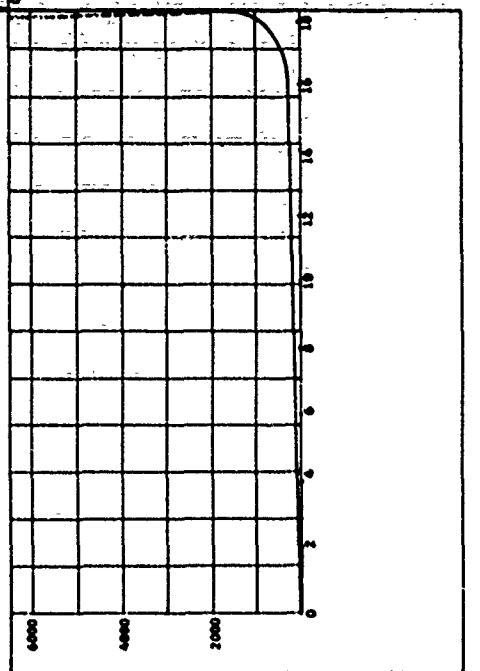


PROJECT	Geotech B-602	CONCRETE NO.	BACAB-97-C-0031
AREA		SAMPLE NO.	341
BORING NO.		DATE	
DEPTH:			
EL.			
LL	36	PL	17
		P1	19
DESCRIPTION: Soaking test cycle			

WATER CONTENT	W	12.37 %
VOID RATIO	e ₀	0.81
SATURATION	S _o	61.25 %
DRY DENSITY	-	92.11 PCF
WET DENSITY	-	106.62 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.62 CM

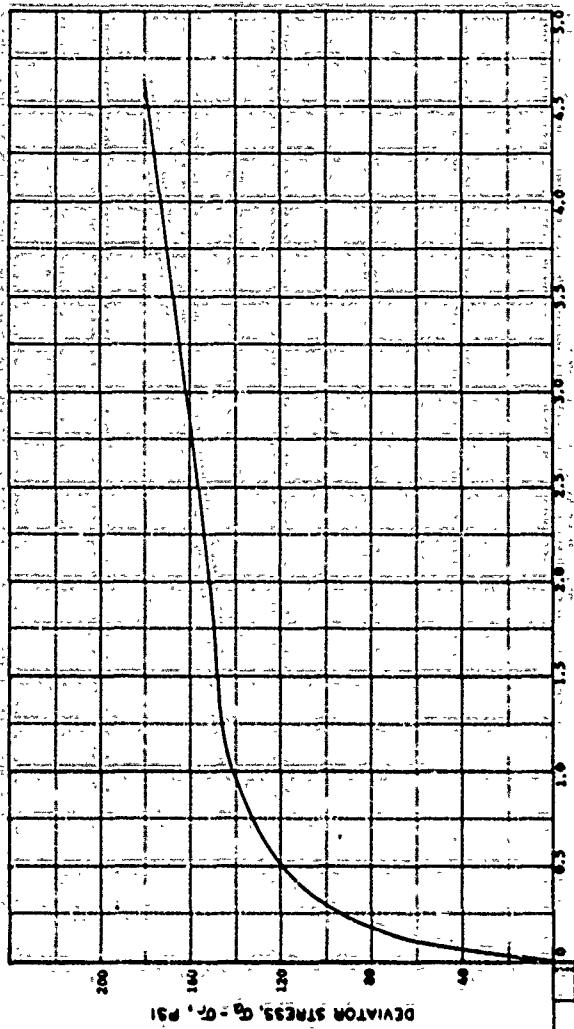


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

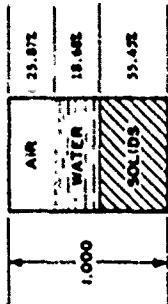
205



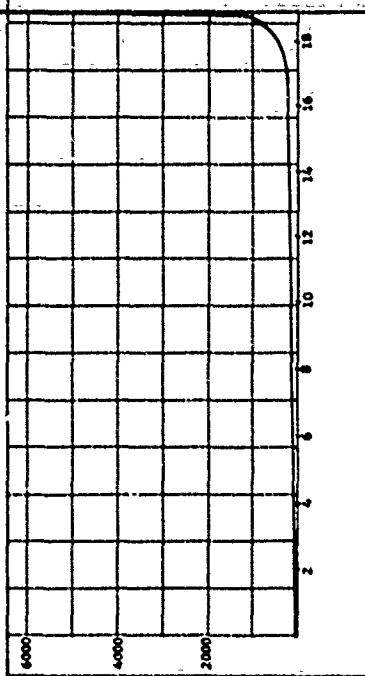
TRIAXIAL SHEAR PHASE

PROJECT	Site 3-02
BOREHOLE NO.	BC-02-07-C-0051
AREA	—
BORING NO.	—
DEPTH	—
EL.	—
LL.	36
PL.	17
PT.	19
SAMPLE NO.	326
DATE	—
DESCRIPTION	Mechanistic Soil Clay
Specific Test	—
Testers	Leontine, Francisco, Edgardo

WATER CONTENT	W	12.48	%
VOID RATIO	e ₀	0.80	
SATURATION	S ₀	41.93	%
DRY DENSITY	γ_d	53.62	pcf
WET DENSITY	γ	105.08	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	5.69	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

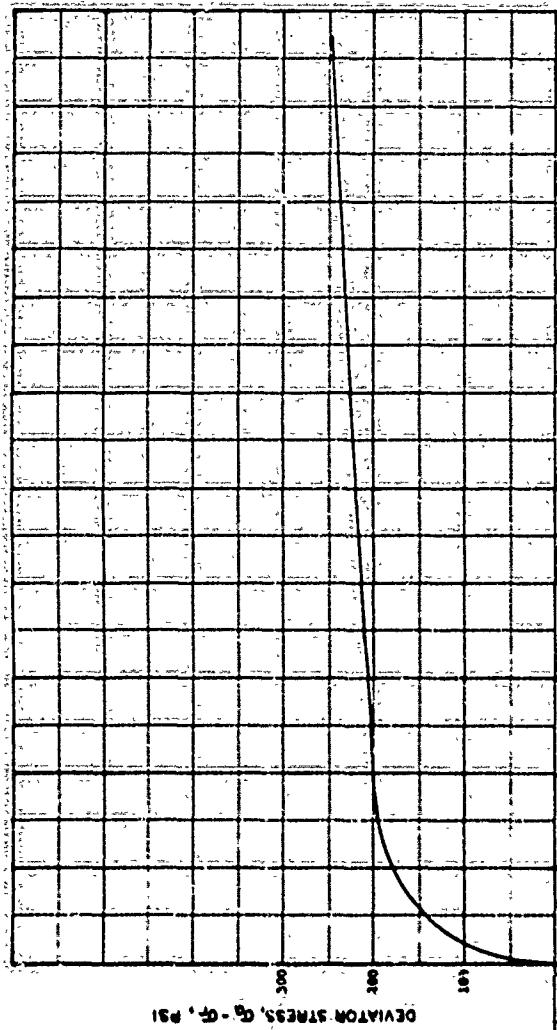


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

206



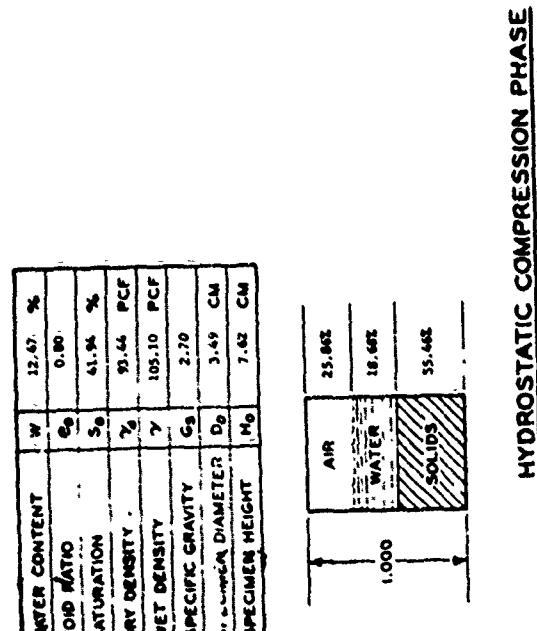
DEVIATOR STRAIN, E_{45} , PERCENT
TRIAXIAL SHEAR PHASE

PROJECT: Co. Tech. S-602;	SAMPLE NO.: 332
Contract No.: DACA19-67-C-0051	
AREA:	
BORING NO.:	DATE:
DEPTH:	
EL.:	
ILL.:	PL.:
	17.
	PR.:
	19
DESCRIPTION: Weathered Mill Clay.	

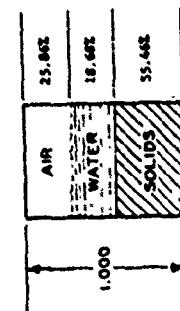
VOLUMETRIC STRAIN, $\Delta V/V₀$, PERCENT

WATER CONTENT	W	12.67 %
VOID RATIO	e ₀	0.80
SATURATION	S _o	61.36 %
DRY DENSITY	γ_d	93.64 PCF
WET DENSITY	γ_w	105.10 PCF
SPECIFIC GRAVITY	G _s	2.70
COLLUMN DIAMETER	D _c	3.49 CM
SPECIMEN HEIGHT	H ₀	7.62 CM

DEVIATOR STRESS, Q_d - Q_c, PSI



HYDROSTATIC COMPRESSION PHASE



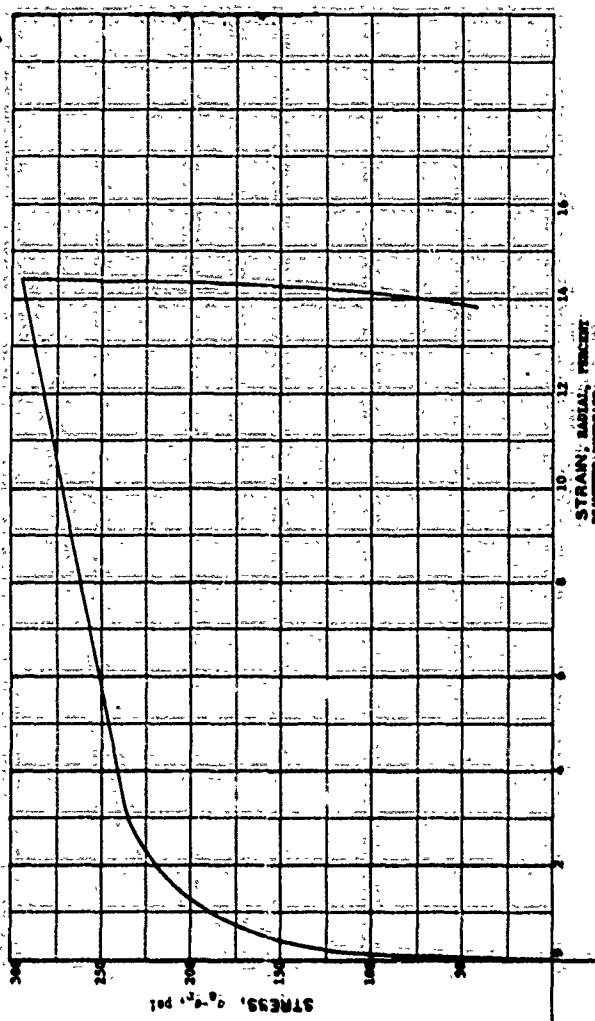
HYDROSTATIC PRESSURE, P, PSI

207

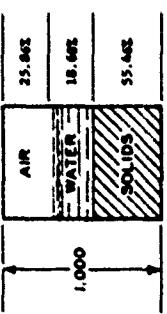
PROJECT	Ge 161-2-402
CONTRACT NO.	DMA039-67-C-0051
AREA	
BORING NO.	
DEPTH	
EL.	
LL	
PL	137
PT	10
DESCRIPTION: Machine Mill Clay	

VOLUMETRIC STRAIN, AV/V₀, PERCENT

WATER CONTENT	W	12.47 %
VOID RATIO	e ₀	0.90
SATURATION	S ₀	41.94 %
DRY DENSITY	γ_d	93.44pcf
WET DENSITY	γ_w	169.10pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE

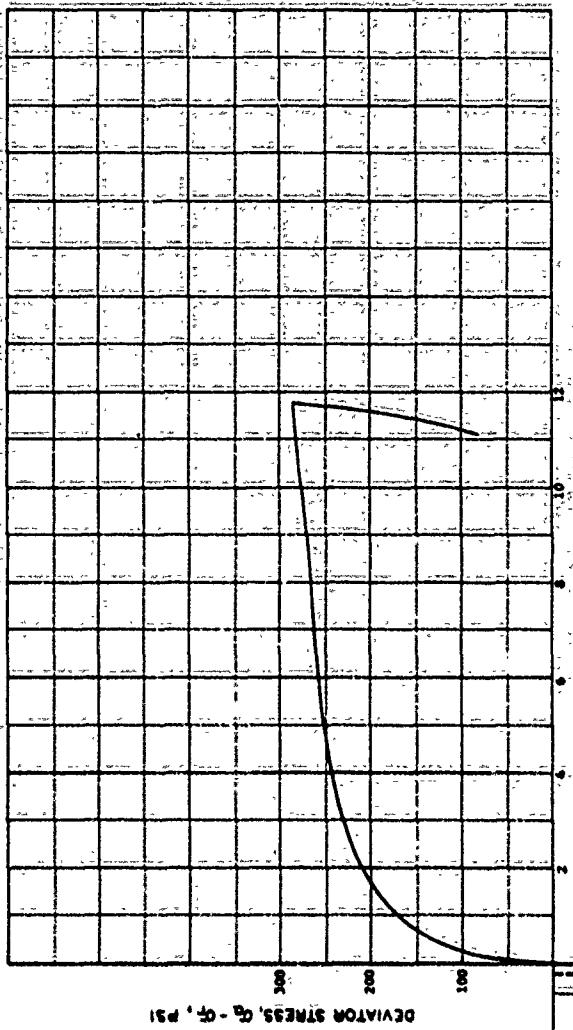


HYDROSTATIC PRESSURE, P, PSI

PROJECT	Co. Tech B-002	SAMPLE NO.	336
Contract No. NCAC-67-0051		DATE	
AREA			
BORING NO.	LL	PL	17
DEPTH E.L.	36	PL	19
DESCRIPTION: Saturated Silty Clay			

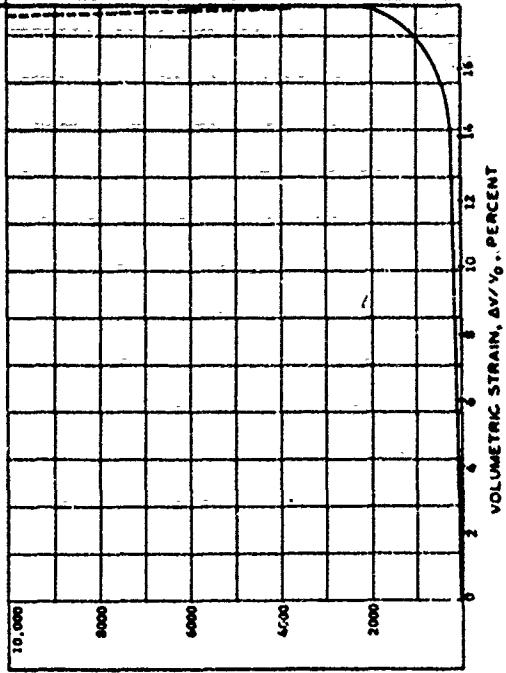
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.52 %
VOID RATIO	e ₀	0.61
SATURATION	S _o	41.90 %
DRY DENSITY	γ _d	93.25pcf
WET DENSITY	γ _w	106.92pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm

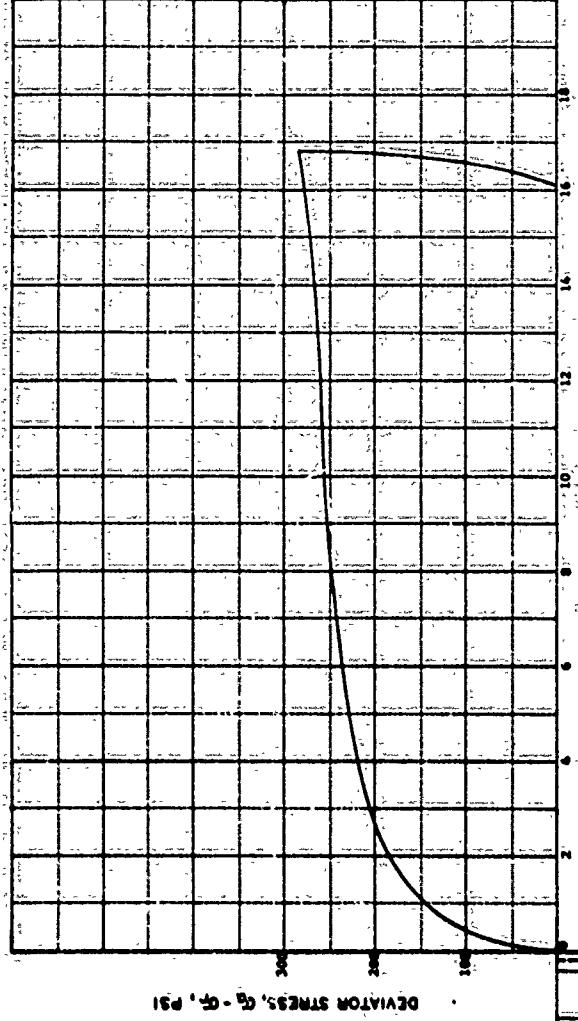


DEVIATOR STRESS, σ_d , psi - 0, 100, 200, 300
DEVIATOR STRAIN, ϵ_d , percent - 0, 2, 4, 6, 8, 10, 12
TRIAXIAL SHEAR PHASE

PROJECT	Co. Tech. & Geo.
Contract No.	MEASIS-67-C-0031
AREA	
BORING NO.	
DEPTH	
EL.	
LL.	36
PL.	17
P1	19
SAMPLE NO.	266
DATE	
DESCRIPTION	Maccane Hill clay



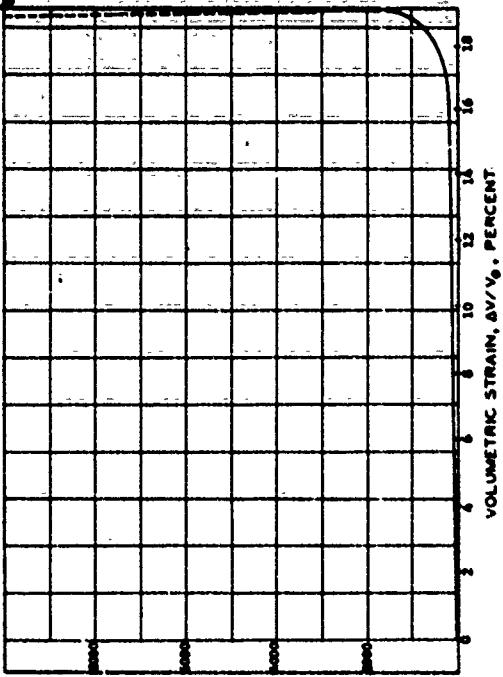
HYDROSTATIC PRESSURE, P, PSI - 0, 2000, 4000, 6000, 8000, 10,000
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT - 0, 2, 4, 6, 8, 10, 12, 14, 16
HYDROSTATIC COMPRESSION PHASE



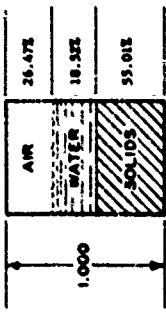
TRIAXIAL SHEAR PHASE

PROJECT	Ge Tech S-002:	SAMPLE NO.	335
Contract No. D-0039-67-C-0051		DATE	
AREA			
BORING NO.			
DEPTH EL.			
L.L.	36	P.L.	19
DESCRIPTION: MUSKEG TILL CLAY			

HYDROSTATIC COMPRESSION PHASE

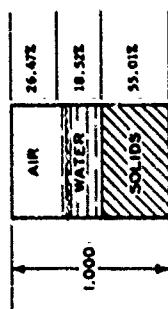


WATER CONTENT	W	12.47	%
VOID RATIO	e ₀	0.82	
SATURATION	S _o	43.17	%
DRY DENSITY	D _d	97.40	PCF
WET DENSITY	D _w	106.26	PCF
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _s	2.50	CM
SPECIMEN HEIGHT	H _s	7.42	CM

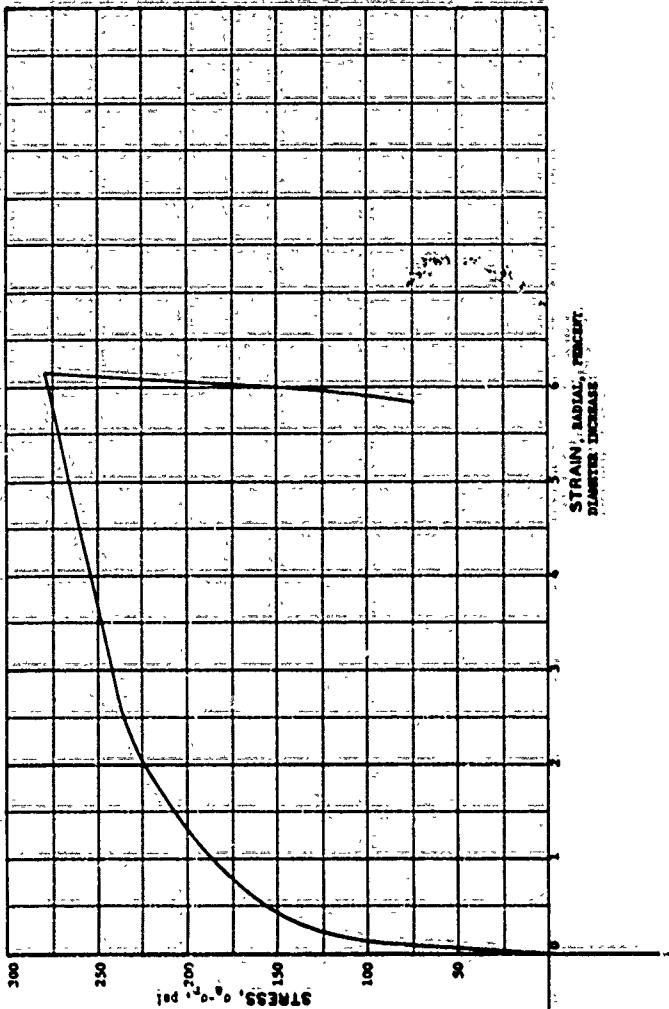


HYDROSTATIC PRESSURE, P, KG./CM.²

WATER CONTENT	W	12.47	%
VOID RATIO	e ₀	0.82	
SATURATION	S ₀	41.17	%
DRY DENSITY	γ_d	92.68	pcf
WET DENSITY	γ'	104.24	pcf
SPECIFIC GRAVITY	G _s	2.76	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.62	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

211

PROJECT	Co. Tech 13-602:
Contract No. MACA 39-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 333
DEPTH	DATE
E.I.	
LL	PL
	17
	P1
	19
DESCRIPTION: Weathered till clay.	

VOLMETRIC STRAIN, $\Delta V/V_0$, PERCENT

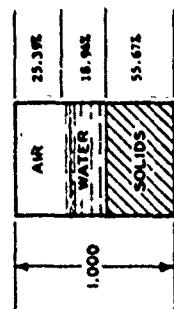
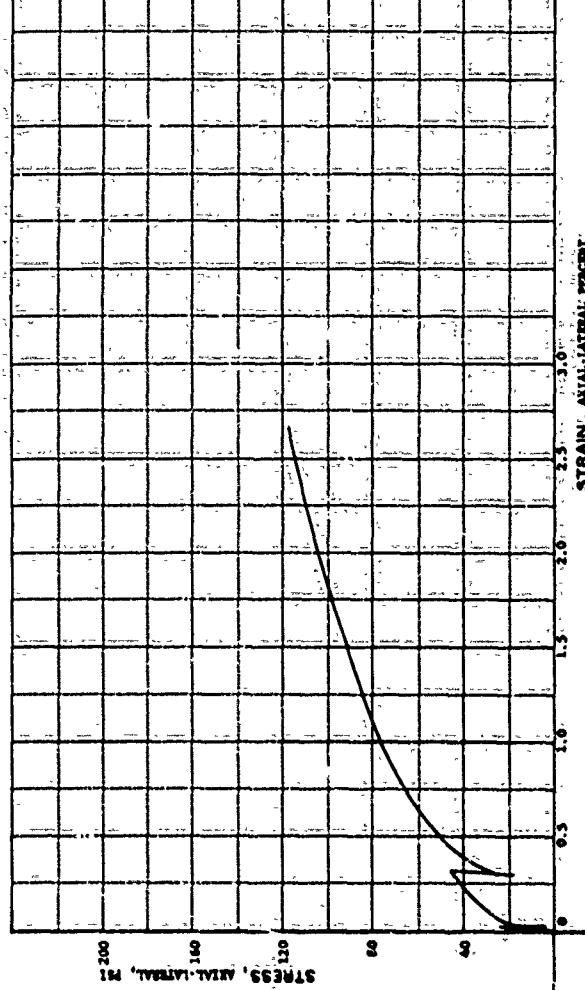
Group B

Triaxial Tests, Cyclic

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213

WATER CONTENT	W	12.60 %
VOID RATIO	e _o	0.80
SATURATION	S _o	42.73 %
DRY DENSITY	D _d	95.79pcf
WET DENSITY	γ	105.61 pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	2.49 CM
SPECIMEN HEIGHT	H ₀	7.60 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

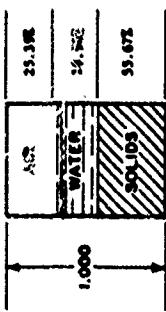
215

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PROJECT: <u>Geotechnical Institute of Technology 3-602</u>	CONTRACT NO. <u>NA-359-67-C-0051</u>
AREA:	
BORING NO.:	SAMPLE NO. <u>319</u>
DEPTH (EL.)	DATE
LL. <u>36</u>	PL. <u>17</u>
	PT. <u>19</u>
DESCRIPTION: <u>Weathered M111 Clay</u>	
TESTS: <u>Cyclic @ 35% and 75%</u>	
Lateral Pressure, 100 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

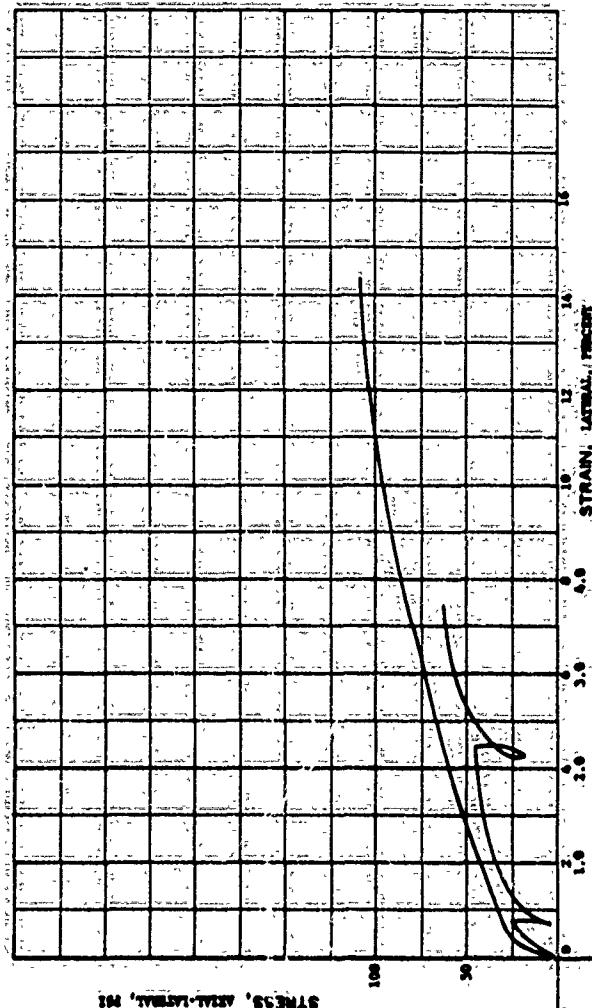
WATER CONTENT	W	13.40	%
VOID RATIO	e ₀	0.46	
SATURATION	S ₀	43.73	%
DRY DENSITY	γ_d	99.79	PCF
WET DENSITY	γ_w	105.61	PCF
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.69	CM
SPECIMEN HEIGHT	H ₀	7.66	CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

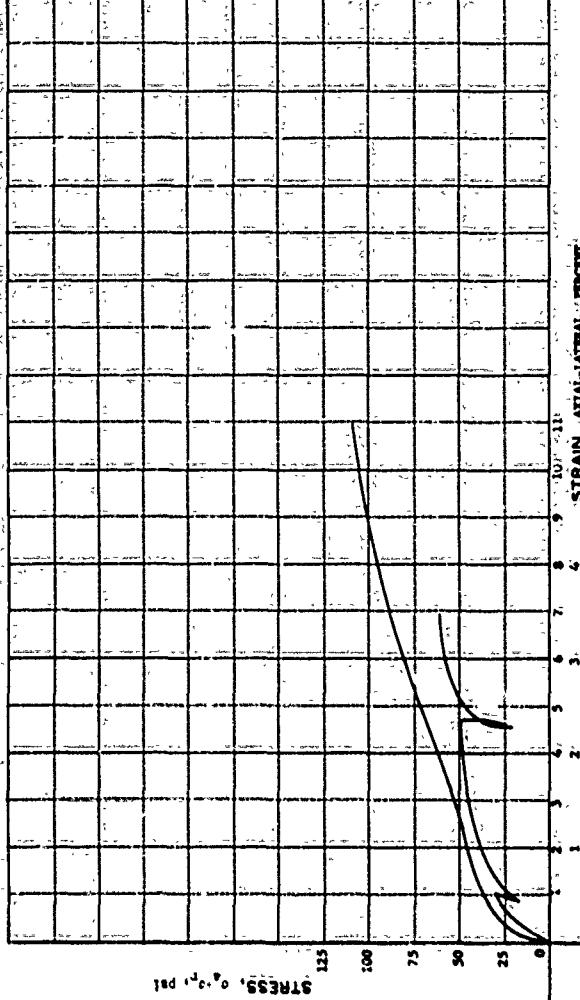
216



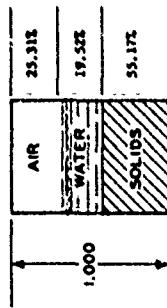
PROJECT George Institute of Technology 3-02	
Core No. M-2439-67-C-0091	
AREA	SAMPLE NO. 319
BORING NO.	DATE:
DEPTH	PL
EL.	17
LL	PI
DESCRIPTION: Saturated Siliciclastics	
TESTS: Cycle 0.35% and 75%	
Initial Pressure, 100 PSI	

VOLMETRIC STRAIN, AV/V0, PERCENT

WATER CONTENT	W	13.10 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	43.54 %
DRY DENSITY	γ_d	92.95pcf
WET DENSITY	γ_w	105.14pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE

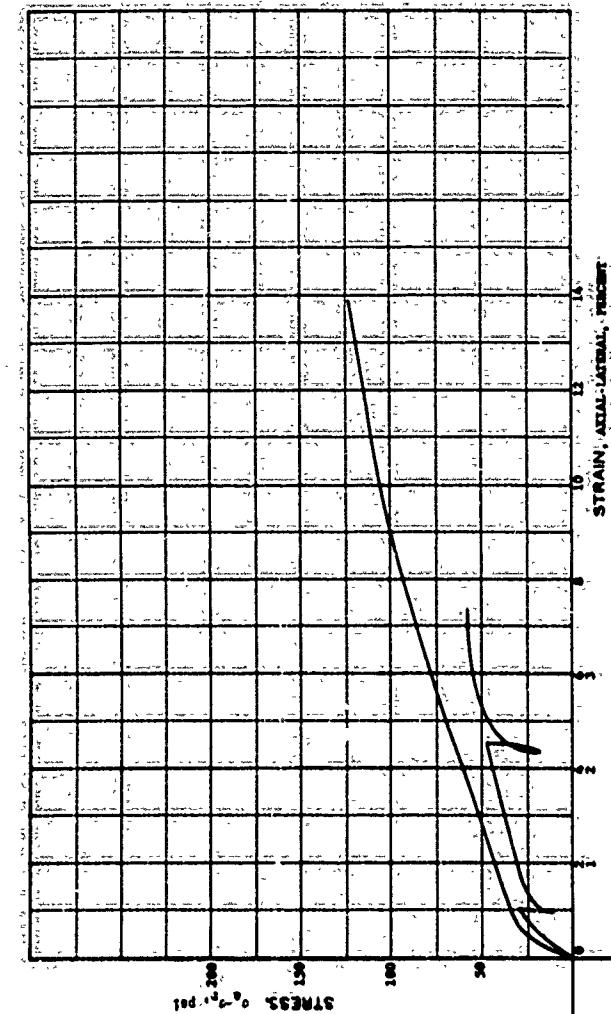


HYDROSTATIC PRESSURE, P, PSI

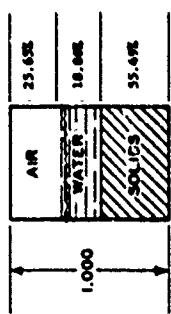
217

PROJECT: <u>Geotechnical Institute of Technology - 402</u>	
Contract No.: <u>INDIA 3-67-C-0031</u>	
AREA:	
BORING NO. <u>347</u>	SAMPLE NO. <u>347</u>
DEPTH, <u>EL.</u>	DATE: <u>17/1/79</u>
LL. <u>36</u>	PL. <u>17</u>
DESCRIPTION: <u>Wetted Mill Clay</u>	<u>PI. 19</u>
Triaxial-Cyclic Shear @ 35% and 75%	

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT



WATER CONTENT	W	12.59	%
VOID RATIO	e ₀	0.89	
SATURATION	S _s	42.34	%
DRY DENSITY	D _d	58.49	pcf
WET DENSITY	Y	105.26	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



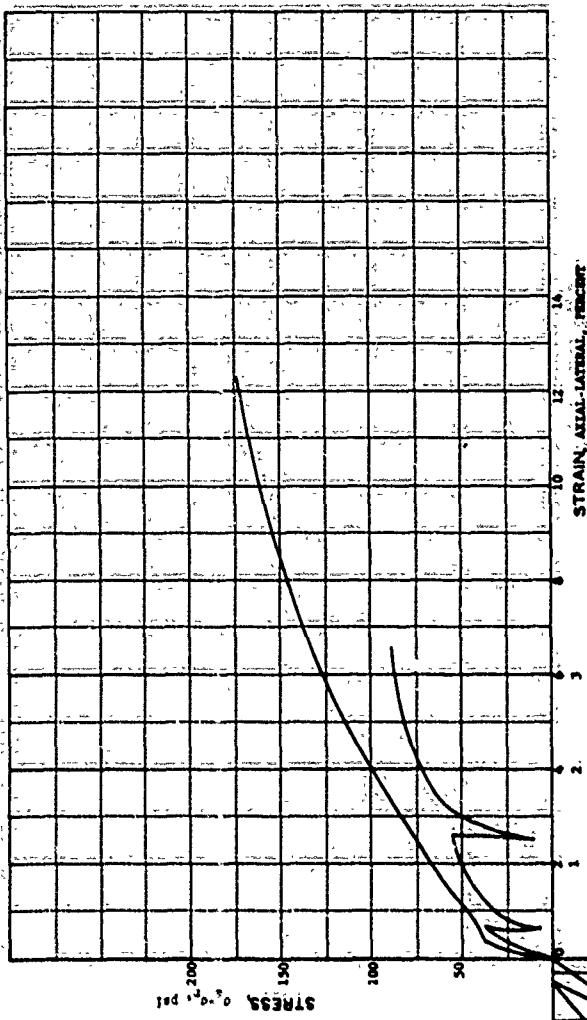
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

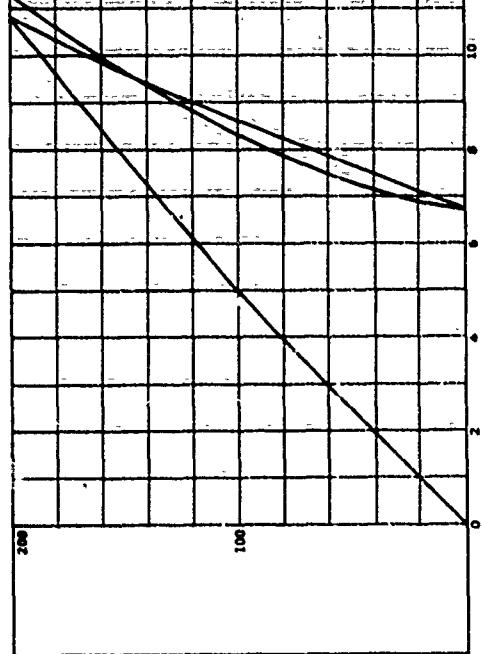
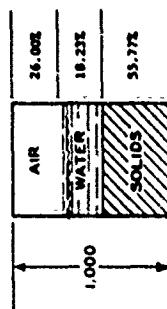
PROJECT: Geotechnical Institute of Technology S. G.	
Contract No.: BMG39-07-C-0031	
AREA:	
BORING NO.	SAMPLE NO.: 350
DEPTH:	DATE:
EL.	
LL.	PL. 17
	PI. 19
DESCRIPTION: Weather Hill 197	
Terrestrial Cycle Shear @ 35% and 75%	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.11 %
VOID RATIO	e ₀	0.79
SATURATION	s ₀	41.23 %
DRY DENSITY	γ_d	93.96 PCF
WET DENSITY	γ_w	105.34 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM.
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE

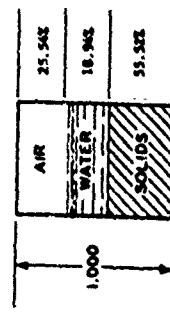


PROJECT: *Construction of School No. 3-002*
Contract No.: *MCAG-67-G-0031*

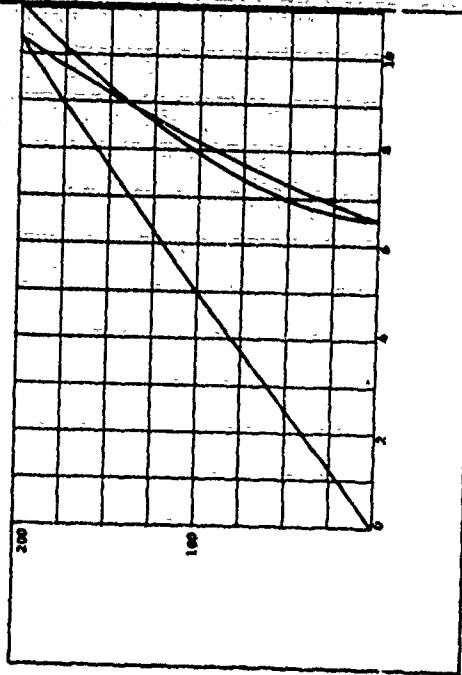
BORING NO., DEPTH EL.	SAMPLE NO.: 1801		
	DATE	P1	19
LL	36	PL	17

DESCRIPTION: *Natural Silty Clay*
TESTED: *Cyclic Creep*.
CYCLE SHEAR @ 15%.

WATER CONTENT	W	12.46 %
VOID RATIO	E _o	0.69
SATURATION	S _s	42.36 %
DRY DENSITY	γ_d	95.30pcf
WET DENSITY	γ_w	165.35pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 cm
SPECIMEN HEIGHT	H ₀	7.62 cm

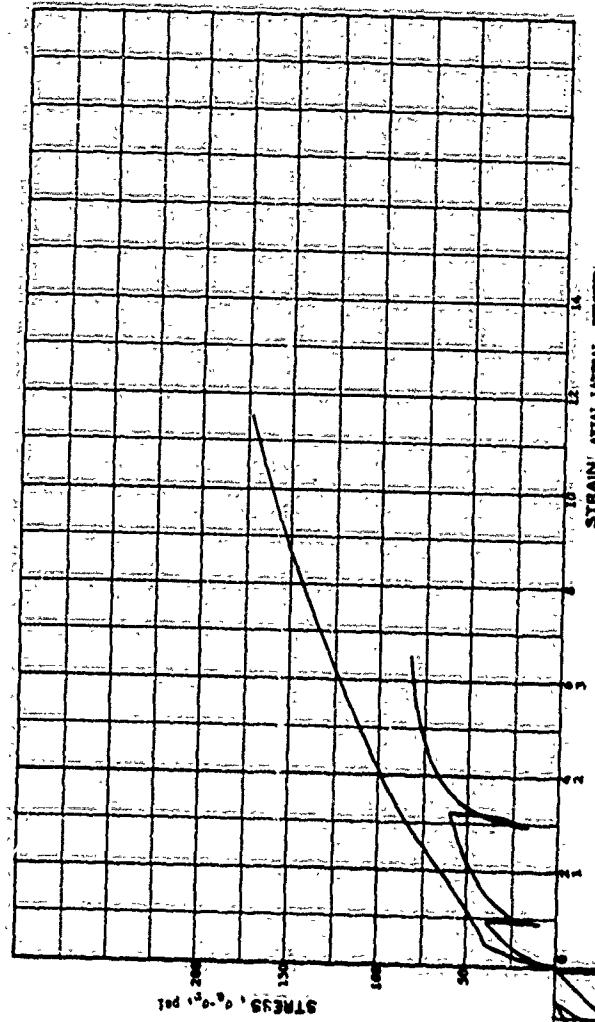


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

220

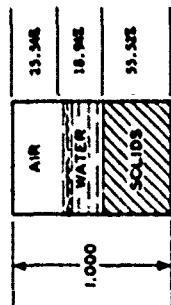


STRAIN, AXIAL STRAIN, 10⁻⁶

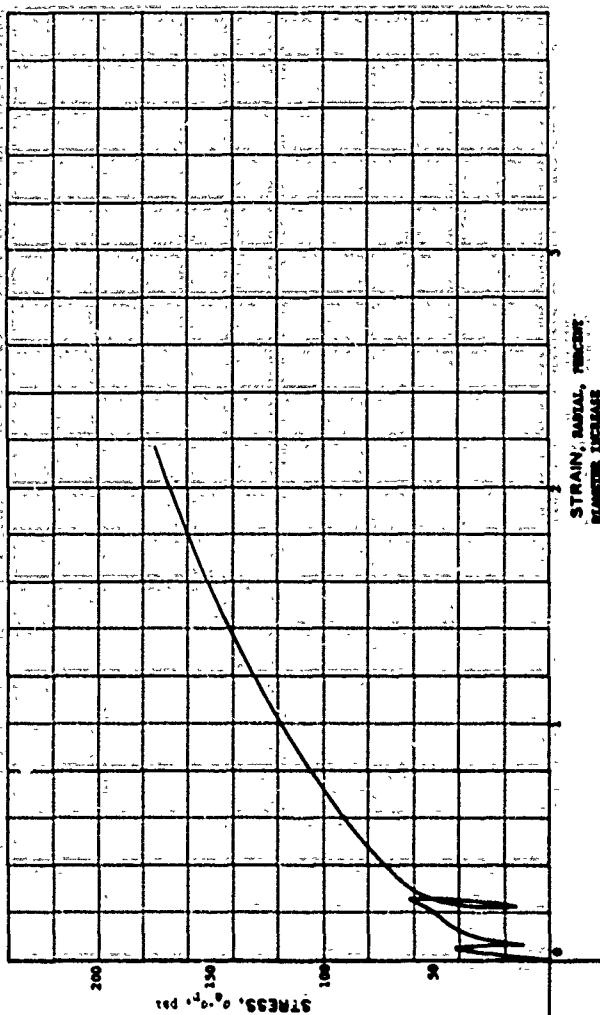
PROJECT: Gated Laboratory of Technology Z-502		
Concrete No: DMAS9-67-C-0091		
AREA:		
BORING NO.:	SAMPLE NO.:	201
DEPTH:	EL:	DATE:
LL:	PL:	PT:
DESCRIPTION: Basalt Bullock		
Triaxial Cycle Compressions, Cycle Number 0.333		

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.64	%
VOID RATIO	e ₀	0.80	
SATURATION	S _s	42.39	%
DRY DENSITY	γ_d	93.53	pcf
WET DENSITY	γ_w	105.25	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, psi

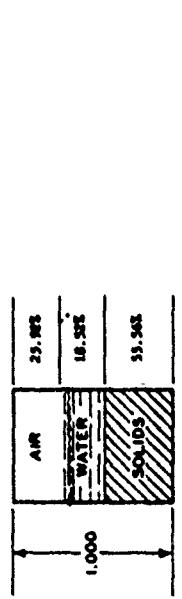
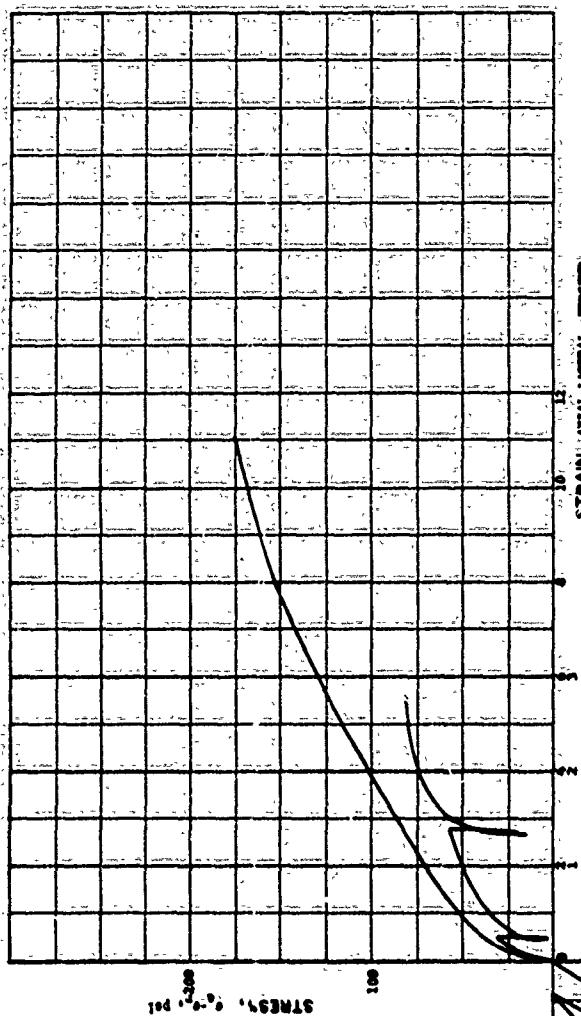
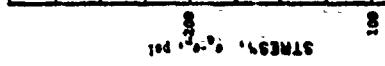
221

PROJECT: <i>Contract Institute of Technology 3-400</i>	AREA:
Corehole No. <i>MDK9141-C-0051</i>	DEPTH, EL.
SAMPLE NO. <i>263</i>	DATE
DESCRIPTION: <i>Michigan Mill Clay</i>	LL
	PL
	17
	P1
	59

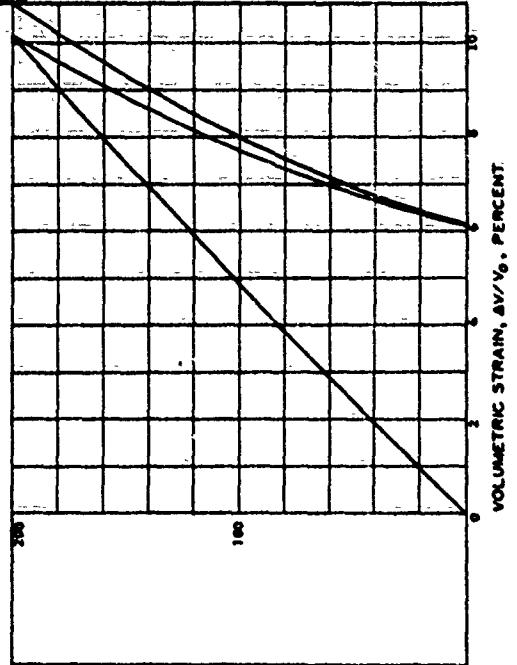
Triaxial-Cell Shear 352

VOLUMETRIC STRAIN, AV/V₀, PERCENT

WATER CONTENT	W	12.34 %
VOID RATIO	e ₀	0.69
SATURATION	S ₀	41.66 %
DRY DENSITY	γ _d	90.61pcf
WET DENSITY	γ _w	105.12pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE

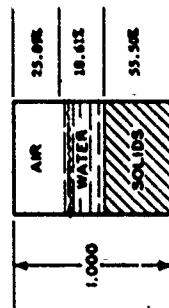


HYDROSTATIC PRESSURE, P, PSI

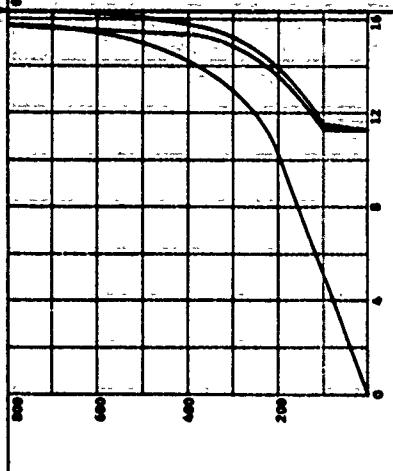
PROJECT	Georgia Institute of Technology 3-6001		
Contract No. N6019-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 346		
DEPTH EL	DATE 17 JUL 1967		
LL	36	PL	19
DESCRIPTION: Machine Mill Clay Tricalcium Silicate Concrete Specimen 0.33 dia. 7.5			

427

WATER CONTENT	W	12.42	%
VOID RATIO	e ₀	0.89	
SATURATION	S ₀	41.82	%
DRY DENSITY	γ_d	98.51	pcf
WET DENSITY	γ	105.12	pcf
SPECIFIC GRAVITY	G ₀	2.76	
SPECIMEN DIAMETER	D ₀	3.69	cm
SPECIMEN HEIGHT	H ₀	7.63	cm

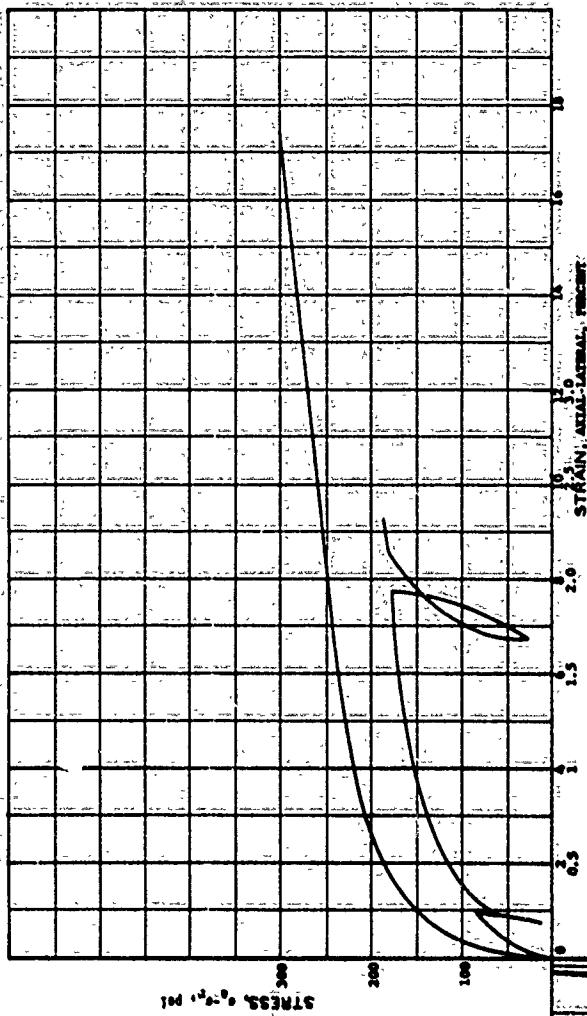


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

223

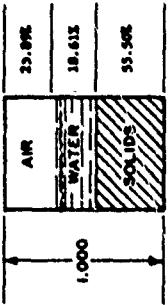


PROJECT: General Institute of Technology I-162	SAMPLE NO.: 272		
Contract No.: NACA 37-C-001	DATE:		
AREA:			
BORING NO.:			
DEPTH EL:	PL	PR	TR
LL:	36	17	19

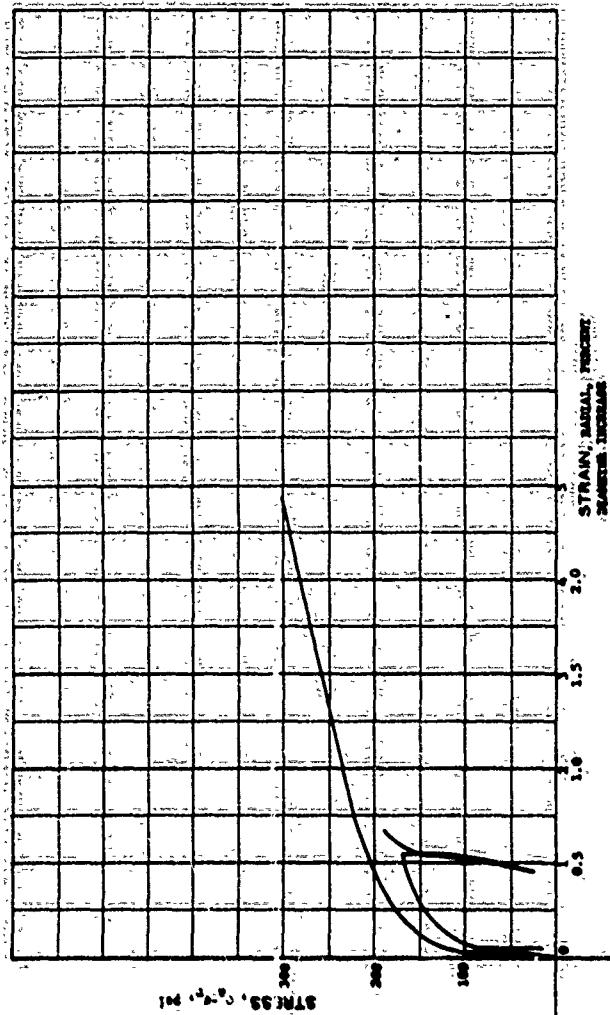
DESCRIPTION: Vertical Mill Gley
Triaxial-Cell Compression, Cycle Shear @ 35% and 125%

VOLUME STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	13.42	%
VOID RATIO	e _o	0.89	
SATURATION	S _o	61.82	%
DRY DENSITY	γ_d	99.31	PCF
WET DENSITY	γ	109.12	PCF
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.49	CM.
SPECIMEN HEIGHT	H _o	7.65	CM.



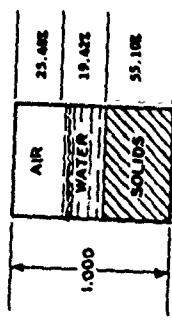
HYDROSTATIC COMPRESSION PHASE



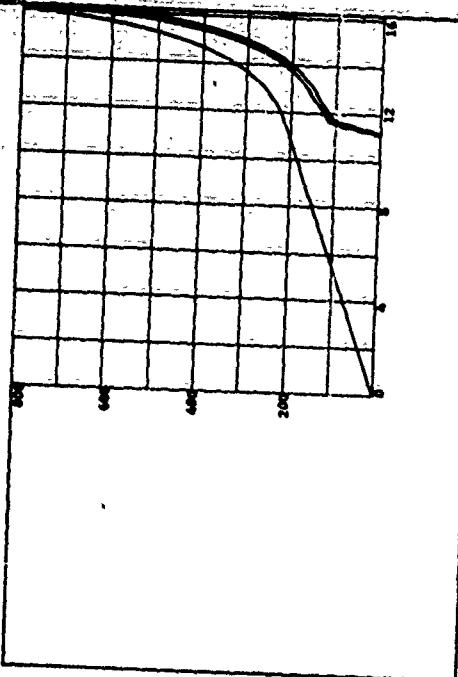
HYDROSTATIC PRESSURE, P, PSI

PROJECT	Sample Institute of Technology - B-202		
COLLECTOR NO.	B-202-C-0001		
AREA	SAMPLE NO. 212		
BORING NO.	DATE		
DEPTH EL.	PL.	17	P1
LL.	36		19
DESCRIPTION	Soil sample collected from soil surface to 36' depth. Soil is dark brown silty loam. Soil is very sticky and plastic. Soil has a strong earthy odor. Soil contains many small stones and pebbles.		
TESTS	Soil sample collected from soil surface to 36' depth. Soil is dark brown silty loam. Soil is very sticky and plastic. Soil has a strong earthy odor. Soil contains many small stones and pebbles.		

WATER CONTENT	W	13.04 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	43.25 %
DRY DENSITY	γ _d	98.85 PCF
WET DENSITY	γ _w	104.95 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.90 CM
SPECIMEN HEIGHT	H ₀	7.63 CM

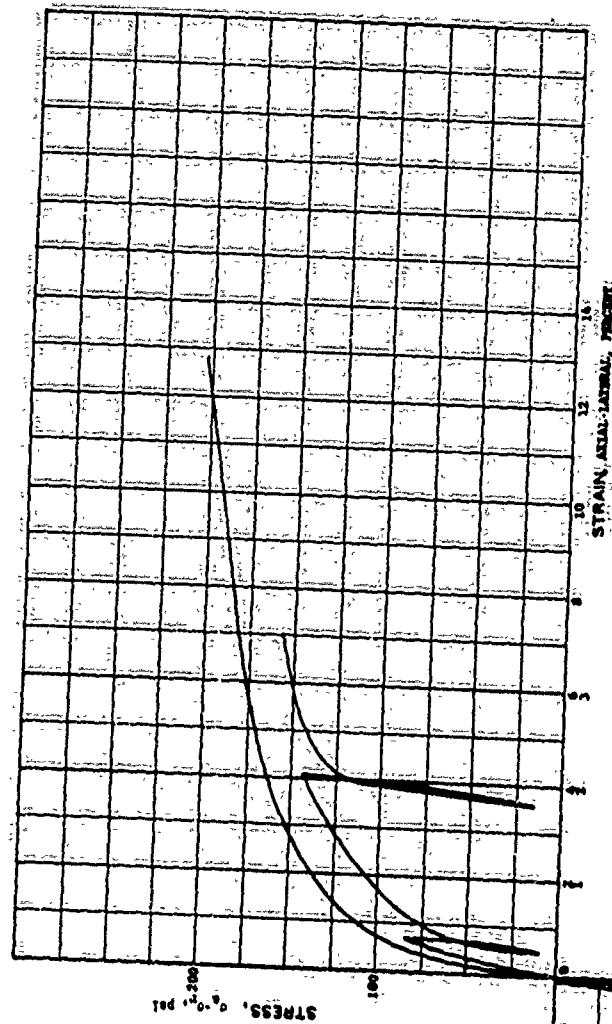


HYDROSTATIC COMPRESSION PHASE



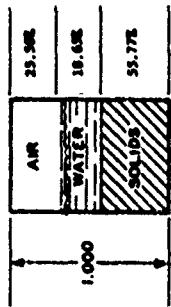
HYDROSTATIC PRESSURE, P, PSI

225

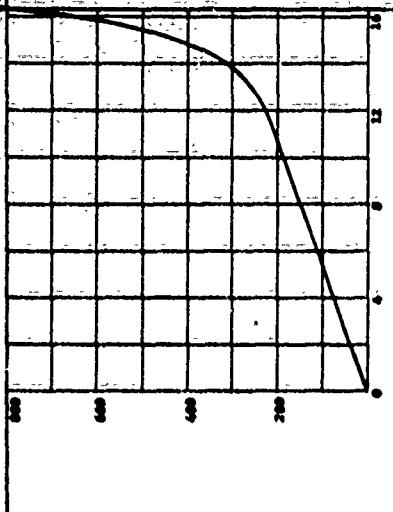


PROJECT	Georgia Institute of Technology B-600		
Contract No.	B-600-67-C-001		
AREA			
BORING NO.	SAMPLE NO.	DATE	
LL.	17	PL	15'
DESCRIPTION	Inclined Drill Cut		
Strain vs. Pressure, Cycle Stress @ 350 and 150			

WATER CONTENT	W	12.39	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	42.15	%
DRY DENSITY	γ _d	99.26	pcf
WET DENSITY	γ _w	165.39	pcf
SPECIFIC GRAVITY	G _s	2.79	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm

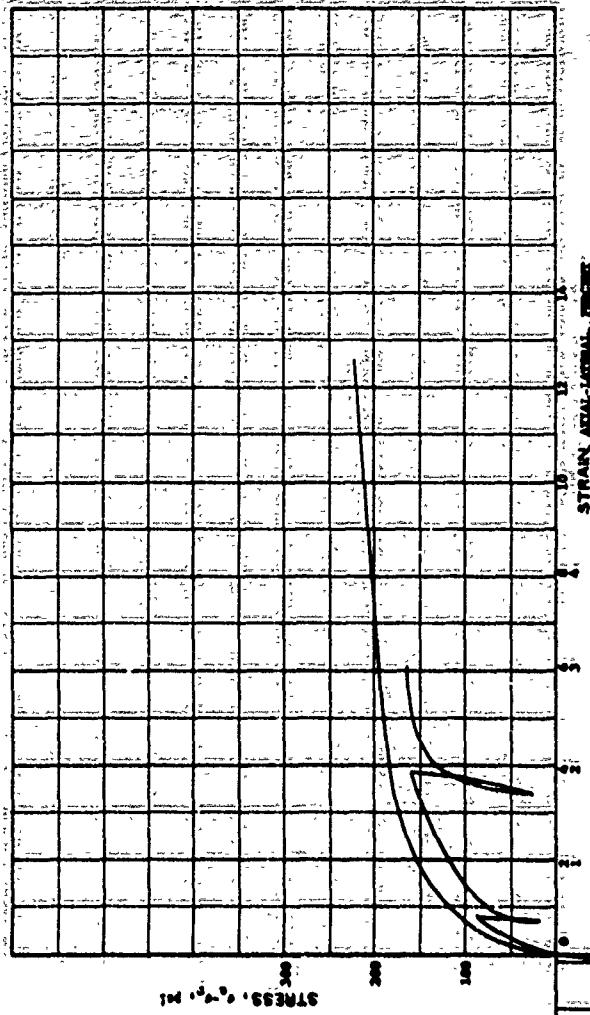


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

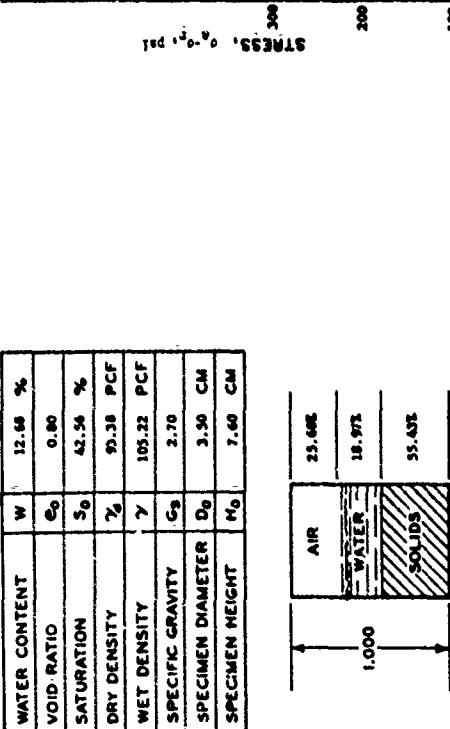
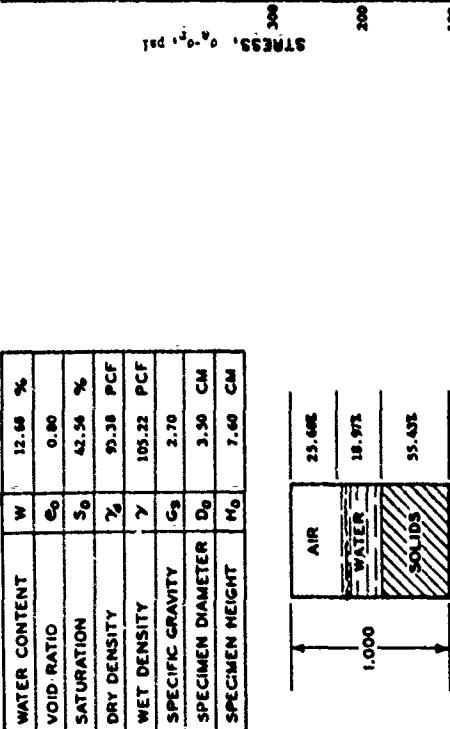
226



PROJECT: Geotechnical Institute of Technology 13-002	
Contract No. 80409-07-C-0001	
AREA:	
BORING NO.	SAMPLE NO. 275
DEPTH CL.	DATE:
L.L.	PL.
	17
	PL. 19
DESCRIPTION: Saturated fill clay	
Initial-Static Stress @ 250 and 175	

VOLMETRIC STRAIN, GV/V, PERCENT

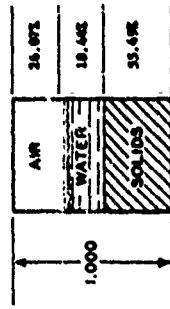
WATER CONTENT	W	12.68 %
VOID RATIO	e ₀	0.80
SATURATION	s ₀	42.54 %
DRY DENSITY	γ _d	95.38 PCF
WET DENSITY	γ _w	105.22 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.90 CM
SPECIMEN HEIGHT	H ₀	7.60 CM



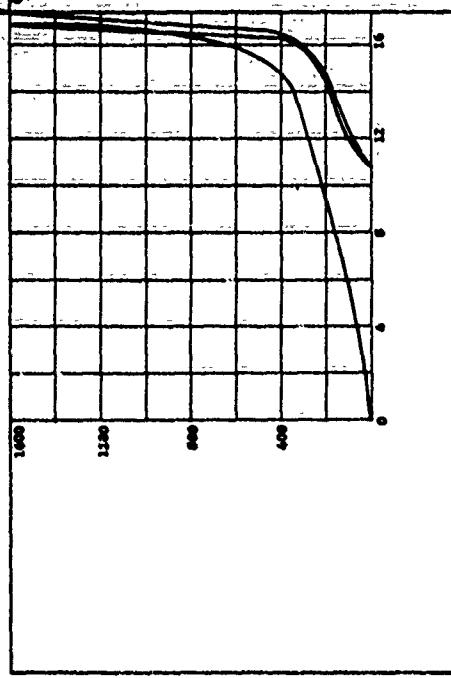
PROJECT	Geotechnical Test Laboratory B-602
Contract No.	200A09-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 217
DEPTH: EL	DATE
LL	PL
36	17
	19

DESCRIPTION: Wettable silt/clay
Triaxial-Compression Shear @ 35% and 75%

WATER CONTENT	W	12.31 %
VOID RATIO	e _o	0.48
SATURATION	S _o	41.44 %
DRY DENSITY	γ _d	98.48 PCF
WET DENSITY	γ _w	186.99 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D _o	2.49 CM
SPECIMEN HEIGHT	H _o	7.62 CM

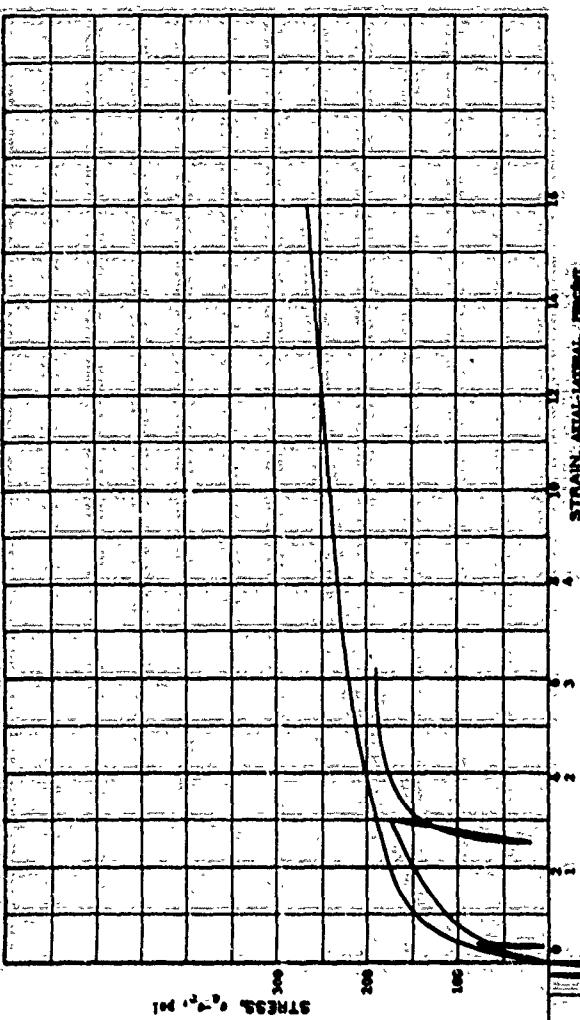


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

228



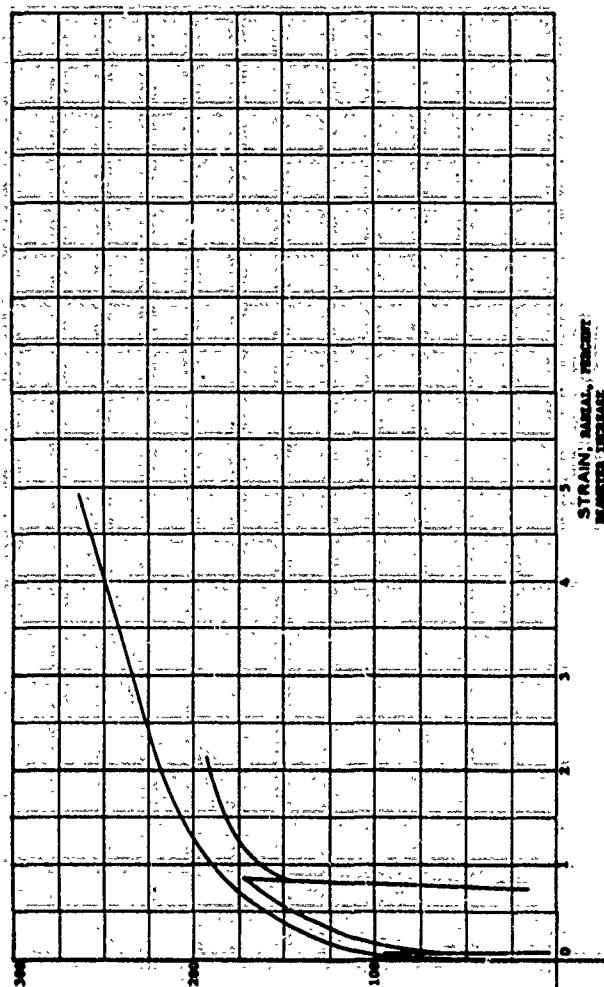
STRESS, σ, PSI

PROJECT: Example Results of Test Series 3-601			
Corehole No. 804A-87-C-0051			
AREA:			
BORING NO.	SAMPLE NO. 362	DATE	EL.
DEPTH EL.			
LL.	PL.	17	PL
1600			15.0
1500			14.0
1400			13.0
1300			12.0
1200			11.0
1100			10.0
1000			9.0
900			8.0
800			7.0
700			6.0
600			5.0
500			4.0
400			3.0
300			2.0
200			1.0
100			0.0

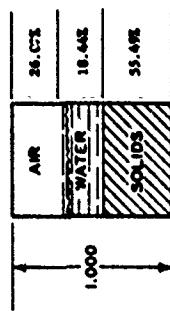
DESCRIPTION: Boring 804A clay
Standard-Cycle Compaction, Otsu Shale 2.32 and 7.23

WATER CONTENT	W	12.21 %
VOID RATIO	e ₀	0.69
SATURATION	S _w	61.64 %
DRY DENSITY	γ_d	99.48pcf
WET DENSITY	γ_w	166.99pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	2.40 CM
SPECIMEN HEIGHT	H ₀	7.61 CM

STRESS, σ , σ_0 , psi



HYDROSTATIC COMPRESSION PHASE



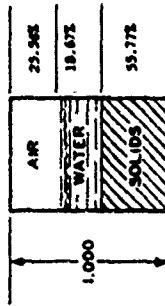
HYDROSTATIC PRESSURE, P , psi

229

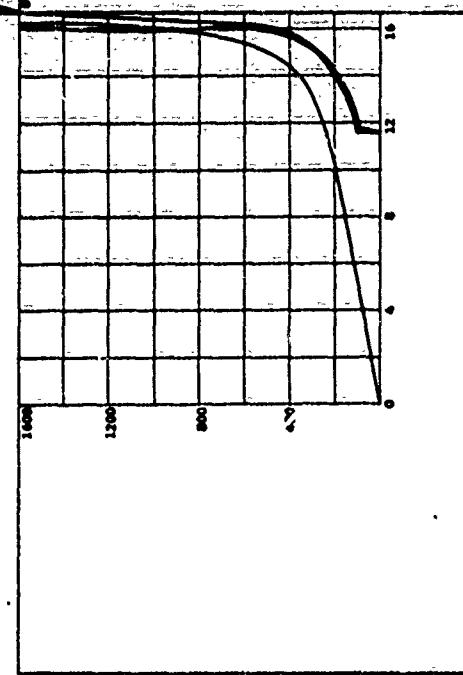
PROJECT		Strain-Saturation Test Report	
Contract No. MC339-67-C-0031			
AREA			
BORING NO.	SAMPLE NO.	DATE	
LL	PL	17	19
DEPTH EL.			
DESCRIPTION: Washed soil clay			
Strain-Cycle Stress: 0.325 and 2.50			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.49	%
VOID RATIO	e ₀	0.79	
SATURATION	S _s	42.21	%
DRY DENSITY	γ _d	50.56	pcf
WET DENSITY	γ _w	105.61	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _s	3.49	cm
SPECIMEN HEIGHT	H _s	7.62	cm

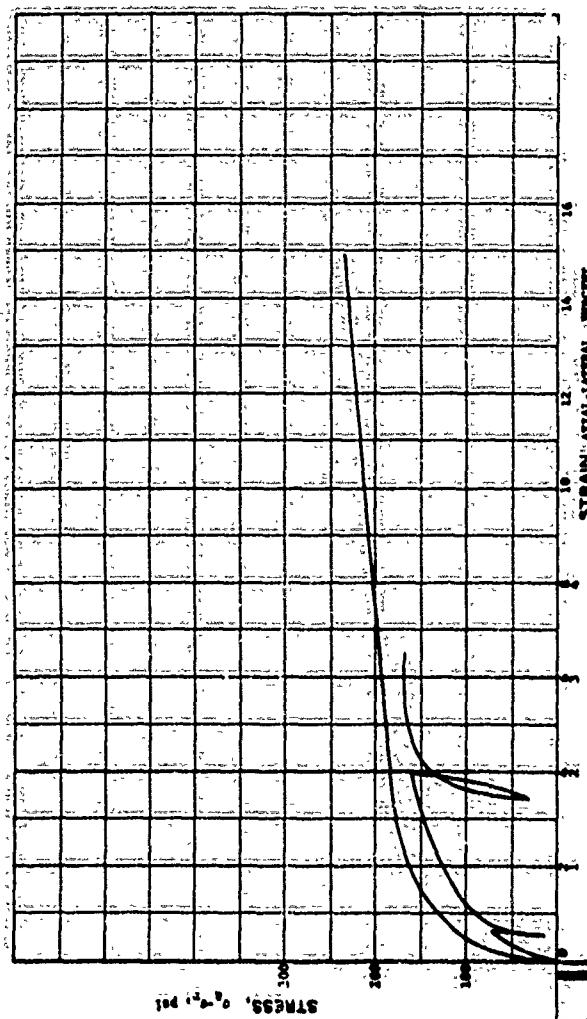


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, p, PSI

230



STRAIN, ΔV/V₀, PERCENT

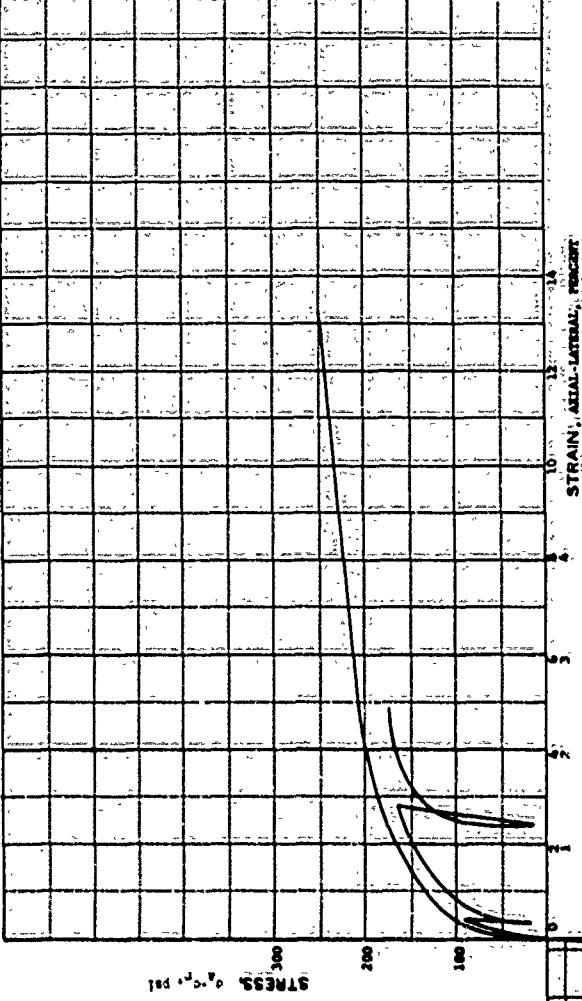
PROJECT: Georgia Institute of Technology B-402	
Contract No.: 34059-62-0051	
AREA:	
BORING NO.	SAMPLE NO.: 216
DEPTH: EL	DATE:
LL	PL
10	17
12	P1
14	19

DESCRIPTION: Calcareous Ball Clay

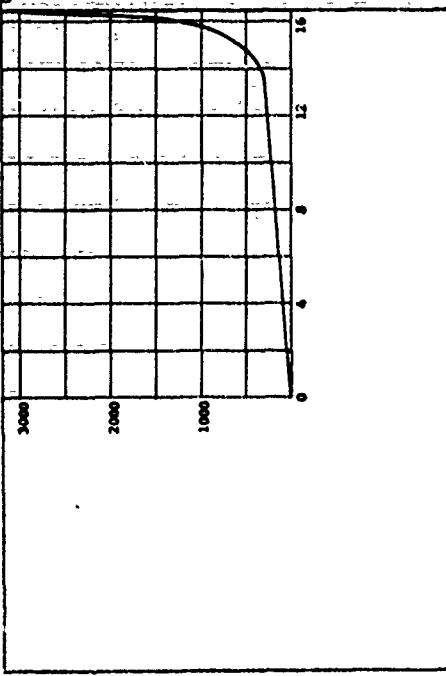
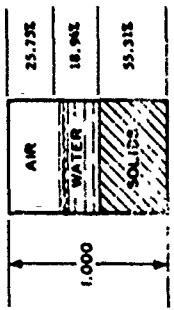
2nd Cyclic-Load Compression Cycle Starts @ 32 and 750

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.48 %
VOID RATIO	e ₀	0.61
SATURATION	S _o	42.37 %
DRY DENSITY	γ _d	93.19 PCF
WET DENSITY	γ	105.01 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.61 CM



HYDROSTATIC COMPRESSION PHASE

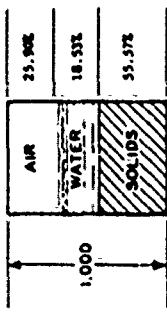


HYDROSTATIC PRESSURE, P, PSI

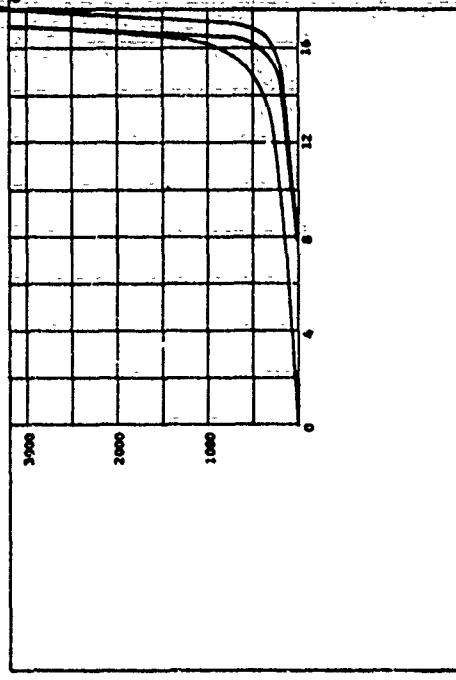
231

PROJECT: <u>Central Institute of Technology B-602</u>	
Contract No. <u>MEAS-67-C-0031</u>	
AREA:	
BORING NO.	SAMPLE NO. <u>202</u>
DEPTH	DATE
EL.	
LL	PL
	17
	P1
	19
DESCRIPTION: <u>Wetted Mill clay</u>	
Triaxial-Shear (3.33 and 3.5)	

WATER CONTENT	W	12.35 %
VOID RATIO	e_0	0.80
SATURATION	S_g	41.70 %
DRY DENSITY	γ_d	90.62pcf
WET DENSITY	γ_w	105.18pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.49 cm
SPECIMEN HEIGHT	H_0	7.61 cm

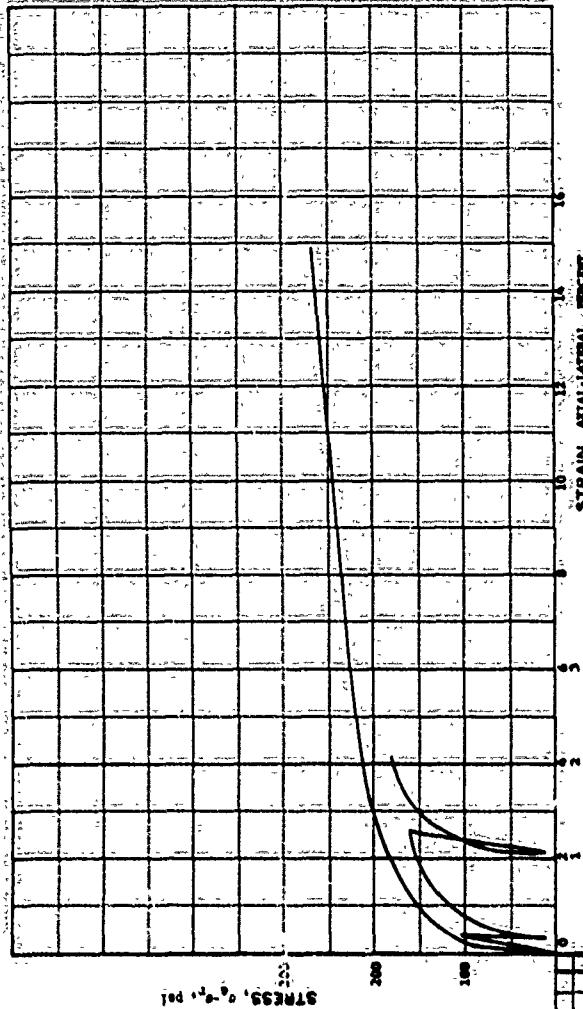


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

STRESS, Q-Q₀, psi

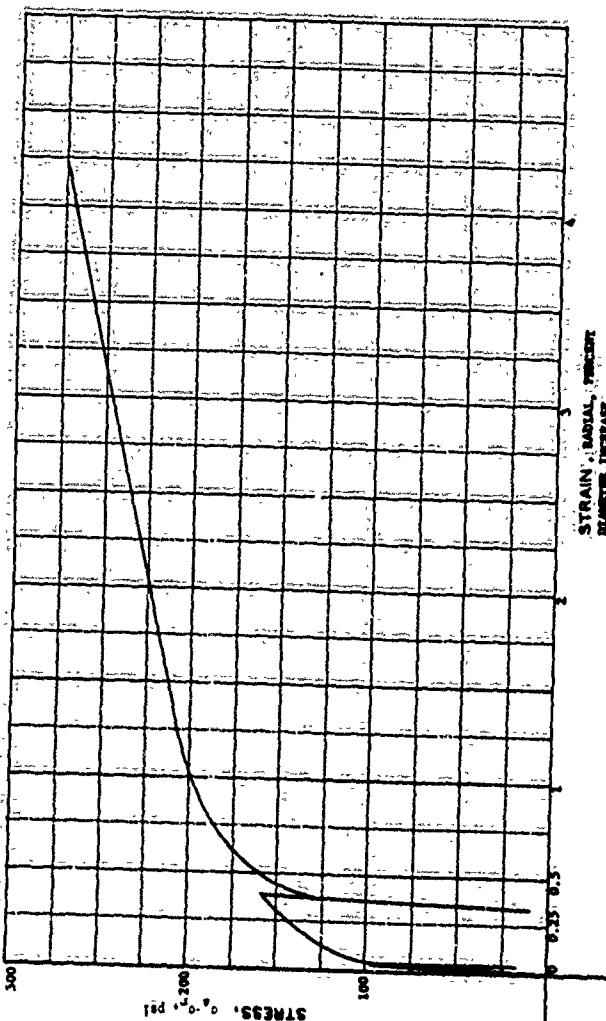


STRAIN, AV/V₀, PERCENT

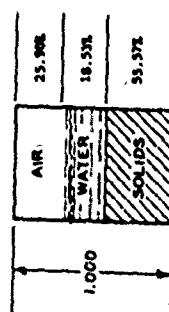
PROJECT	Georgia Institute of Technology B-602
Contract No.	DEA/DP-07-C-0051
AREA	
BORING NO.	SAMPLE NO.: 205
DEPTH	DATE:
EL.	
LL	17
PL	17
PI	19

DESCRIPTION: Draining Triaxial Test
Triaxial-Cyclic Compression Cycle Shear @ 35% and 15%

WATER CONTENT	W	12.35 %
VOID RATIO	e ₀	0.60
SATURATION	S _o	61.70 %
DRY DENSITY	γ _d	91.42 PCF
WET DENSITY	γ _w	105.18 PCF
SPECIFIC GRAVITY	G _s	2.70
SCIMEN DIAMETER	D ₀	3.49 CM
SCIMEN HEIGHT	H ₀	7.91 CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , psi

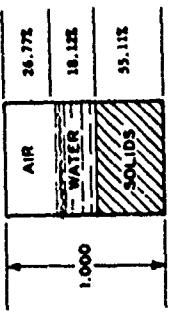
233

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

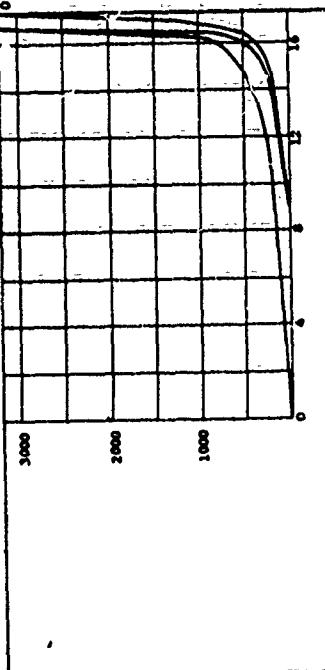
PROJECT: Georgia Institute of Technology S-402	
Contract No. NACA39-11-C-0001	
AREA:	
BORING NO.	SAMPLE NO. 203
DEPTH	DATE
EL.	
LL	PL
SL	17
	PL
	19

Triaxial-Circle Shear @ 13% and 17%

WATER CONTENT	W	12.18 %
VOID RATIO	e ₀	9.81
SATURATION	S ₀	40.36 %
DRY DENSITY	γ_d	92.85pcf
WET DENSITY	γ_w	164.15pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.60 cm

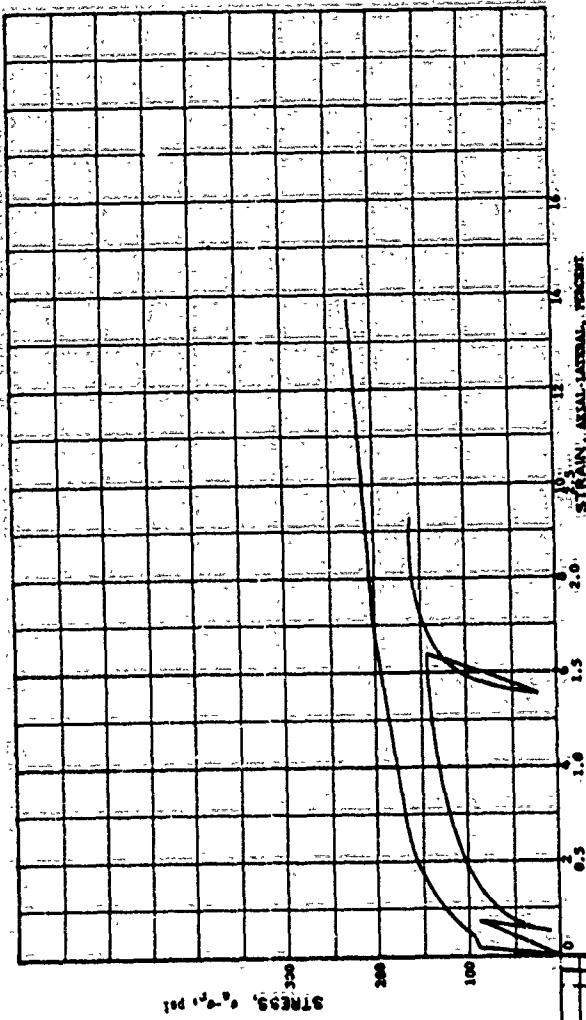


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

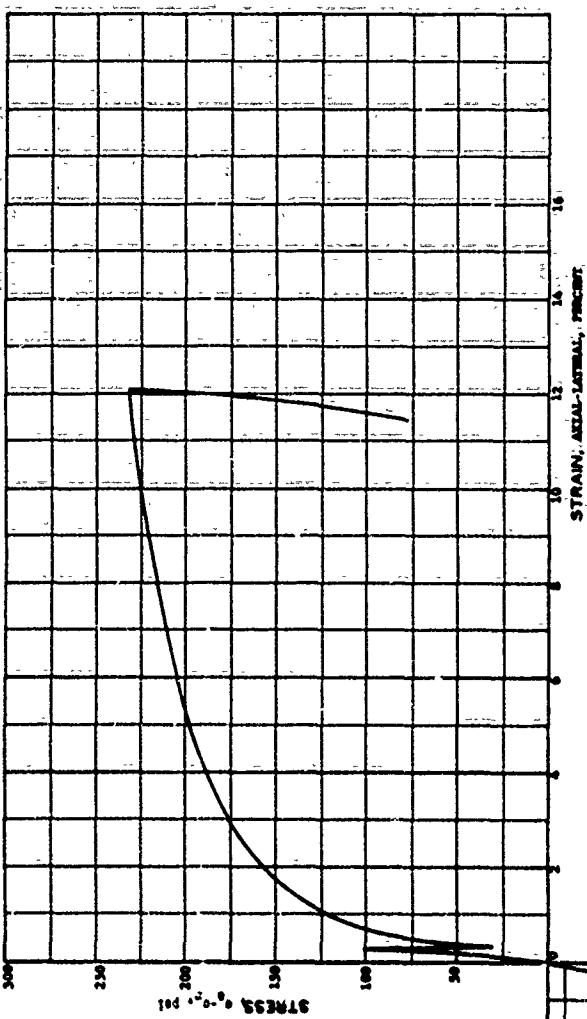
234



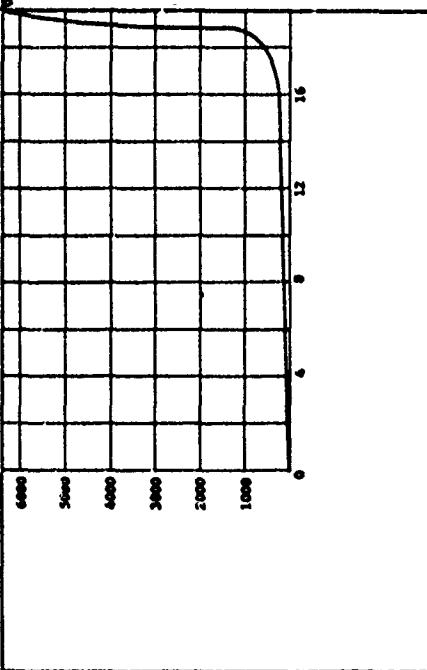
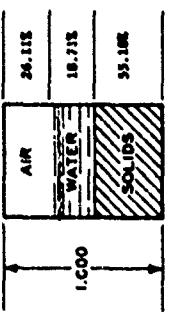
PROJECT	Georgia Institute of Technology 3-403		
Contract No. MUSAS-87-C-0031			
AREA			
BORING NO.	SAMPLE NO. 208		
DEPTH EL.	DATE		
L.L.	36	PL	11/
		PT	19

DESCRIPTION: Medium Silty Clay
Stratified-Grease Contamination Cycle Shear @ 35° and 75°

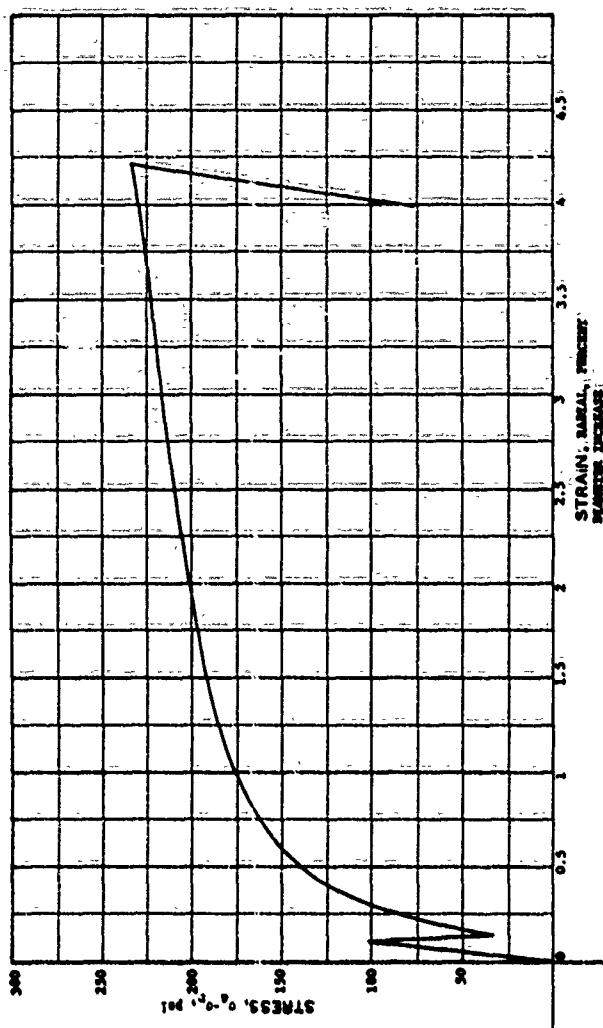
WATER CONTENT	W	12.54 %
VOID RATIO	e ₀	0.82
SATURATION	s ₀	61.75 %
DRY DENSITY	γ _d	98.97pcf
WET DENSITY	γ _w	104.45pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE

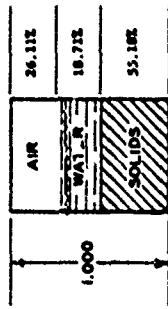


PROJECT: Georgia Institute of Technology B-502.	
Contract No. DACA39-67-C-0051	
AREA:	SAMPLE NO. 284
BORING NO.:	DATE:
DEPTH:	
EL.	
LL.	PIL 17 P1 19
DESCRIPTION: <i>Mechanics Hill Clay</i>	<i>Initial-Cycle Shear @ 35%</i>



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	12.56 %
VOID RATIO	e ₀	0.81
SATURATION	S _o	41.15 %
DRY DENSITY	γ _d	92.97pcf
WET DENSITY	γ _w	104.65pcf
SPECIFIC GRAVITY	G _s	2.79
SPECIMEN DIAMETER	D ₀	3.29 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



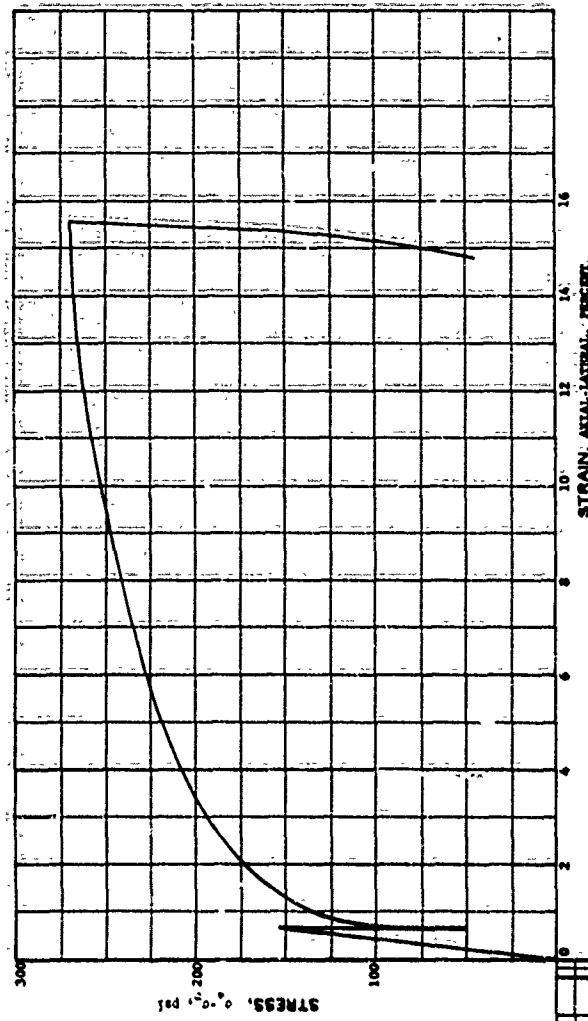
HYDROSTATIC PRESSURE, P, PSI

236

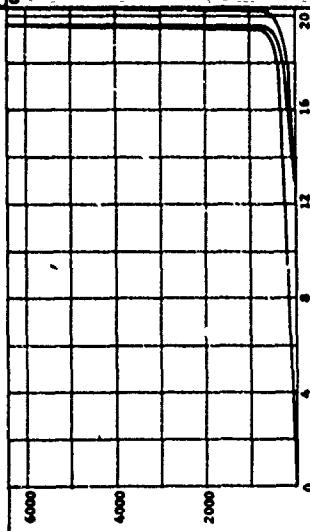
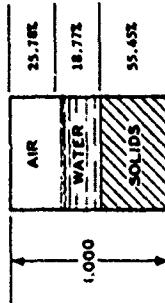
PROJECT	Central Institute of Technology & I.C.C.		
Contract No. BMCA9-67-C-0051			
AREA	SAMPLE NO.	DATE	
BORING NO.			
DEPTH			
EL.			
L.L.	36	P.L.	17
		P.L.	19
DESCRIPTION: <i>Soil sample</i>			
TESTED CYCLE SHEAR Q-35%			

VOLUME TRAC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.53	%
VOID RATIO	e _o	0.80	
SATURATION	S _o	42.19	%
DRY DENSITY	γ_d	93.43	pcf
WET DENSITY	γ_w	105.14	pcf
SPECIFIC GRAVITY	G _s	2.70	
ECMEN DIAMETER	D _b	3.49	cm
SPECIMEN HEIGHT	H _b	7.63	cm

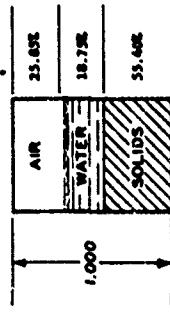


HYDROSTATIC COMPRESSION PHASE

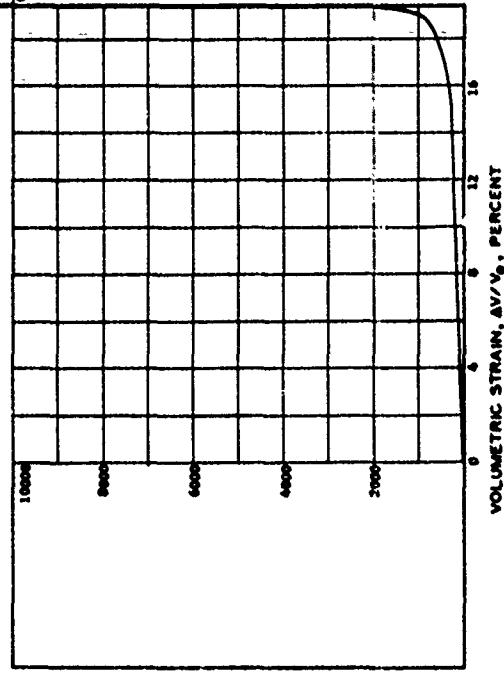


PROJECT: Georgia Institute of Technology B-600.	
Core Test No. DCAAS2-07-C-0051	
AREA	SAMPLE NO. 290
BORING NO.	DATE
DEPTH	
EL	
LL	PL
PT	19
DESCRIPTION: Weathered Null clay	
Triaxial-Cell Configuration, Cyclic Shear @ 1%	

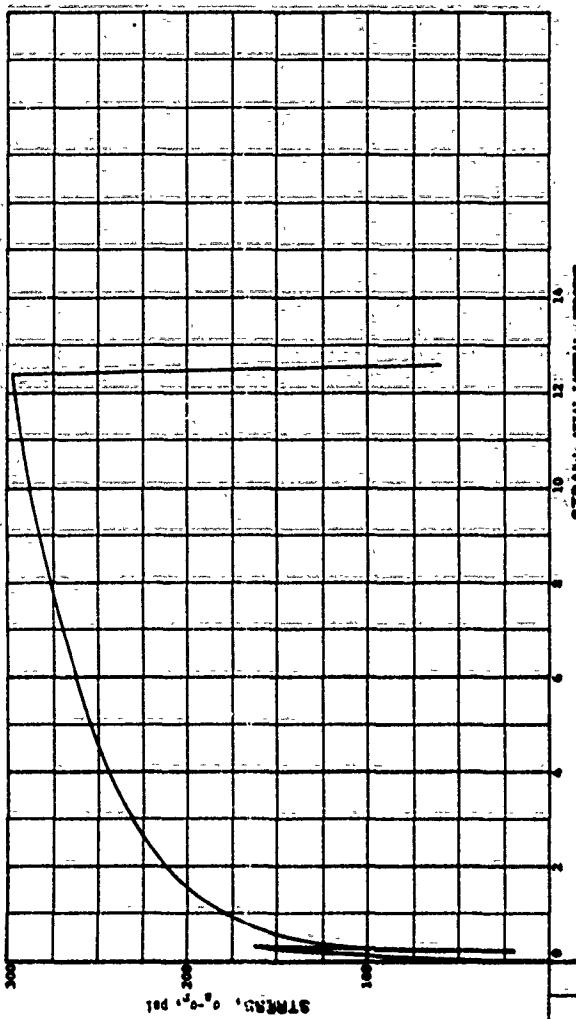
WATER CONTENT	W	12.53 %
VOID RATIO	e ₀	0.61
SATURATION	S ₀	42.06 %
DRY DENSITY	γ_d	99.34pcf
WET DENSITY	γ_w	169.60pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE

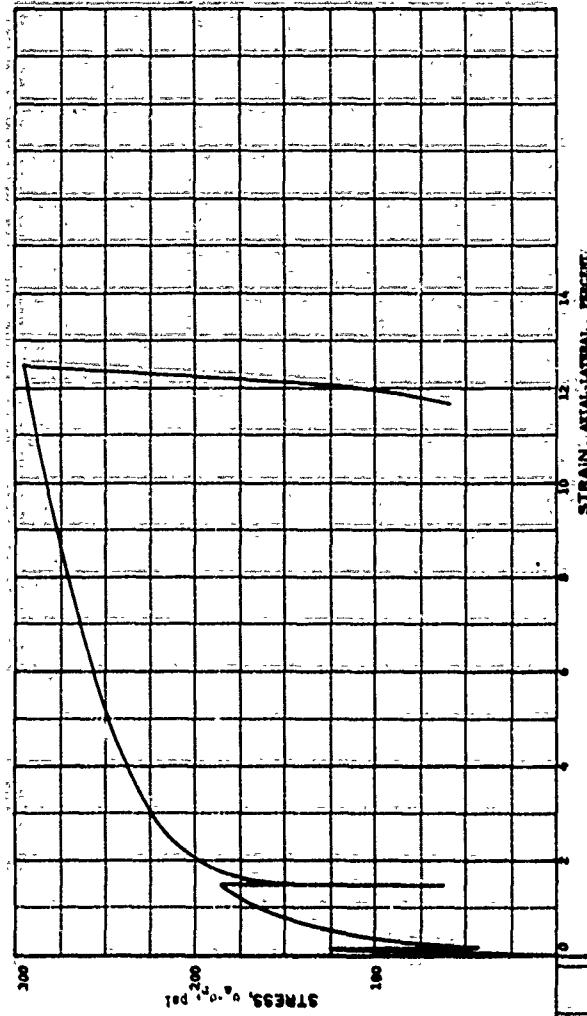


HYDROSTATIC PRESSURE, P , PSI

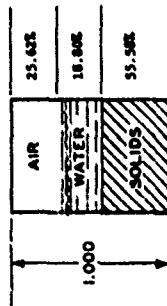


238

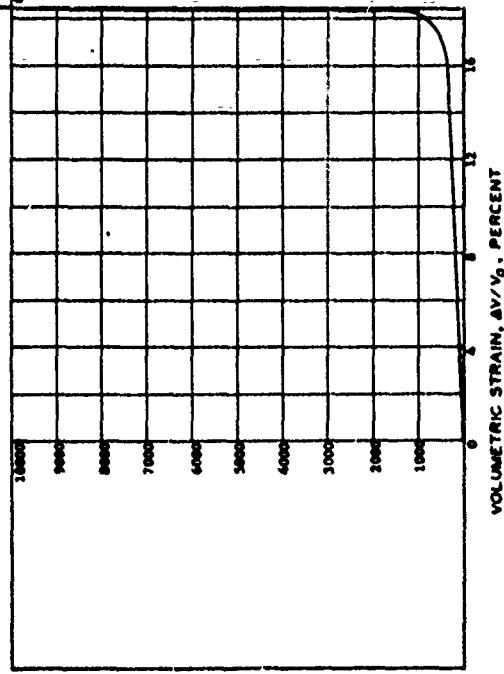
PROJECT	Georgia Institute of Technology B-602			
Contract No.	MACA99-67-C-0051			
AREA				
BORING NO.	SAMPLE NO. 207			
DEPTH EL.	DATE			
LL	PL	17	P1	19
DESCRIPTION: MacClosky Soil Clay				
Transient-Cyclic Shear @ 35%				



WATER CONTENT	W	12.53	%
VOID RATIO	e _o	0.80	
SATURATION	s _o	42.32	%
DRY DENSITY	γ_d	93.63	PCF
WET DENSITY	γ_w	105.36	PCF
SPECIFIC GRAVITY	G_s	2.70	
DIAMETER	D _o	3.49	CM
SPECIMEN HEIGHT	H _o	7.61	CM

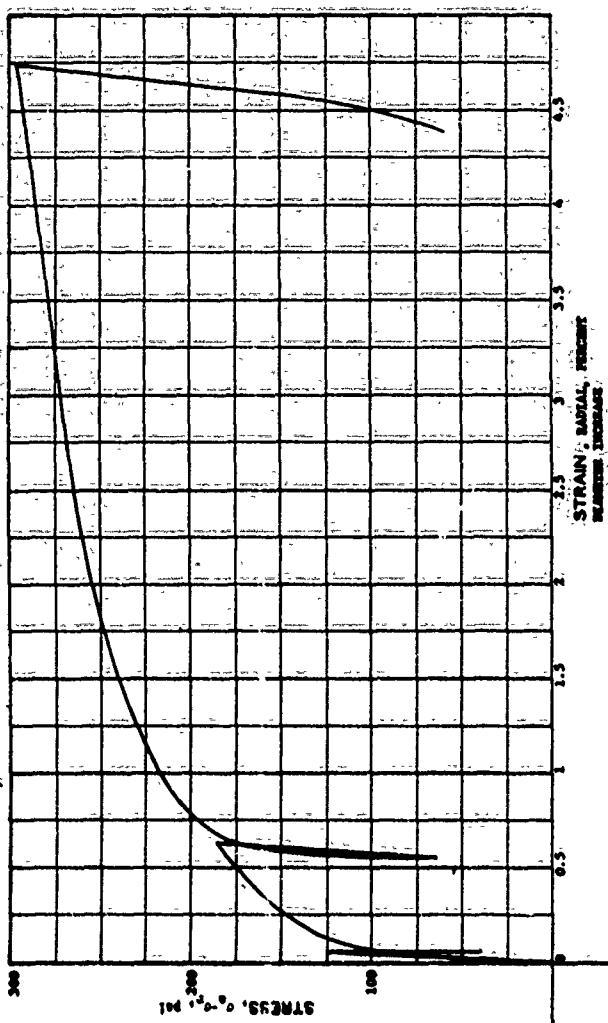


HYDROSTATIC COMPRESSION PHASE

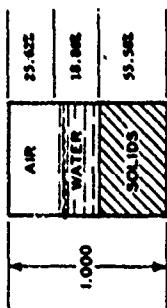


WATER STATIC PRESSURE, P, PSI

PROJECT	Ground Testings of Test Site No. 2-02		
Contract No.	DMA39-67-C-0053		
AREA	SAMPLE NO.	289	
BORING NO.	DEPTH	DATE	
	ft.		
	EL.		
	LL	PL	17
	36		P1
DESCRIPTION	Mechan Hill Clay		
Triaxial-Cycle Shear @ 35% and 75%			



HYDROSTATIC COMPRESSION PHASE



WATER CONTENT	W	12.53 %
VOID RATIO	E ₀	0.40
SATURATION	S ₀	42.32 %
DRY DENSITY	γ_d	59.13 PCF
WET DENSITY	γ	105.34 PCF
SPECIFIC GRAVITY	G ₀	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	1.61 CM

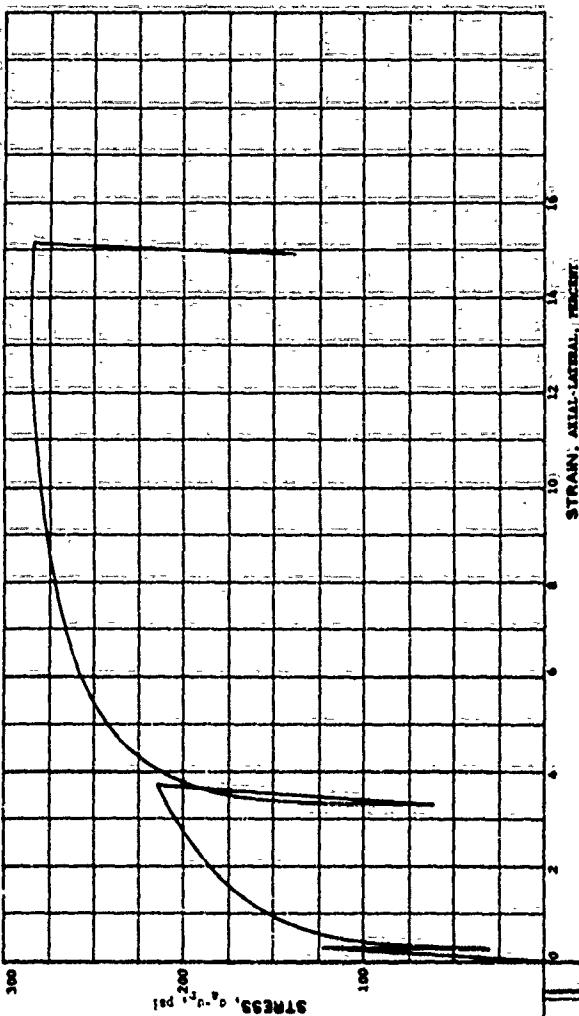
HYDROSTATIC PRESSURE, P, PSI

240

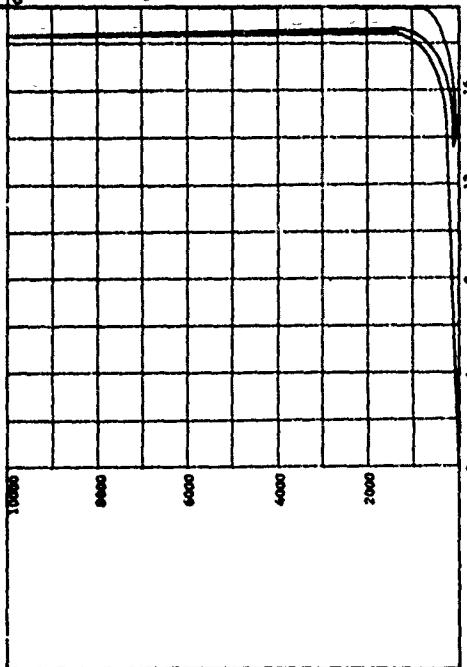
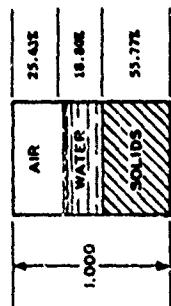
PROJECT	Central Terminal AC Terminal 3-102
Contract No.	AC-102-67-C-0031
AREA	
BORING NO.	SAMPLE NO.: 289
DEPTH	DATE:
EL.	
LL	PL 17 PI 19
DESCRIPTION	Mechanistic Silty Clay
	Triaxial-Cyclic Shear @ 35° at 75%

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.49 %
VOID RATIO	e_0	0.79
SATURATION	S_o	42.32 %
DRY DENSITY	γ_d	90.96pcf
WET DENSITY	γ_w	105.69pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.62 cm



HYDROSTATIC COMPRESSION PHASE

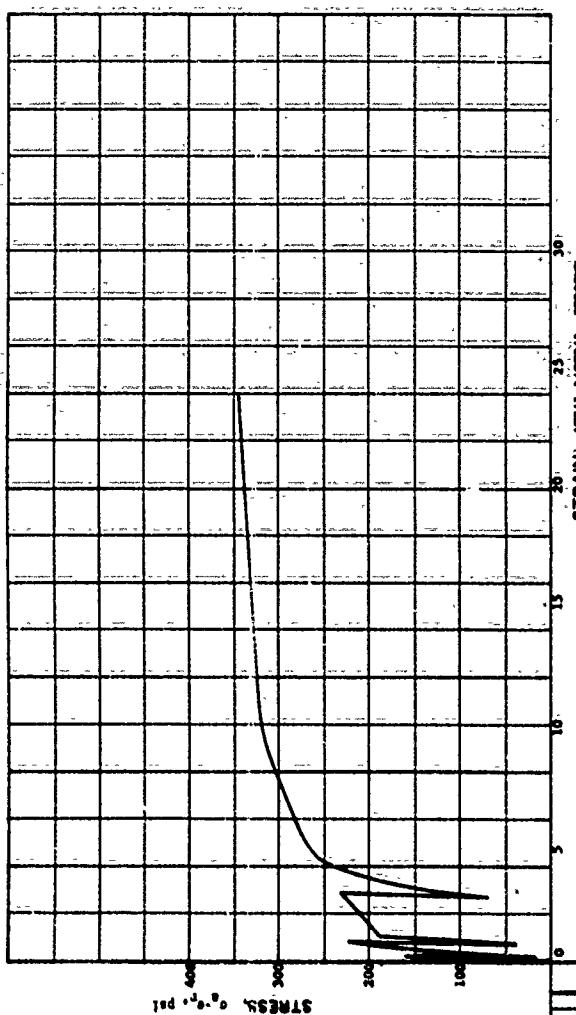
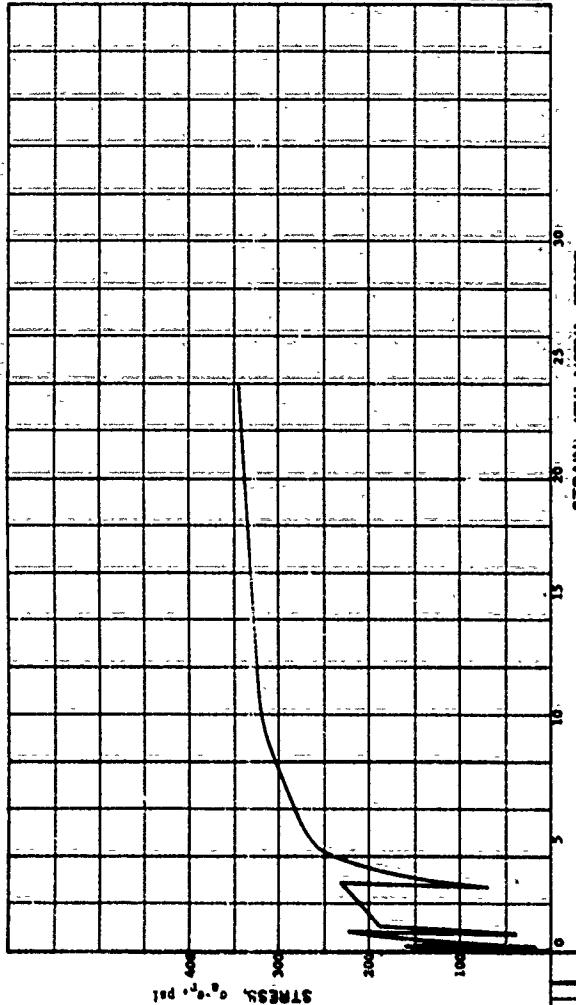


241

PROJECT: Georgia Institute of Technology S-402	
Contract No.: DACA39-67-C-0051	
AREA	SAMPLE NO.: 291
BORING NO.	
DEPTH	DATE
EL.	
LL.	PL
16	17
	PL
	19

DESCRIPTION: Watchless Soil Cell
Triaxial Cycle Compression, Cyclic Shear @ 3% and 15%.

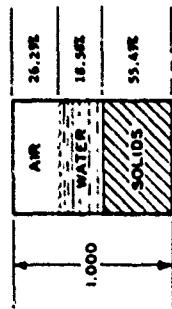
WATER CONTENT	W	12.3%
VOID RATIO	e_0	0.779
SATURATION	S_o	41.91 %
DRY DENSITY	γ_d	93.87pcf
WET DENSITY	γ	105.45pcf
SPECIFIC GRAVITY	G_s	2.76
SPECIMEN DIAMETER	D_o	3.47 cm
SPECIMEN HEIGHT	H_o	7.62 cm



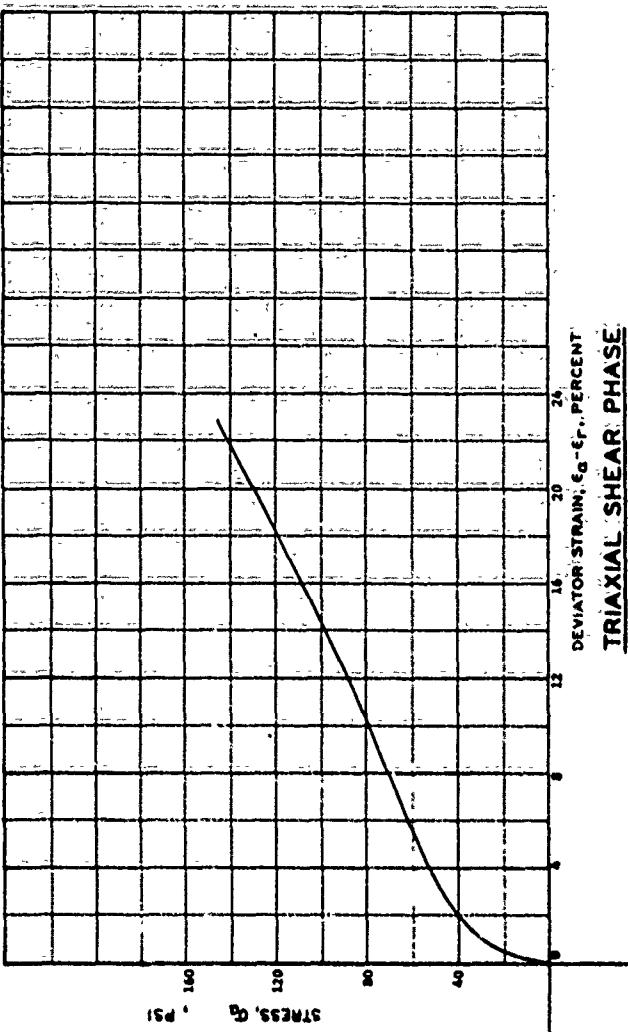
Group C

Constant Ratio Tests

WATER CONTENT	W	12.40	%
VOID RATIO	e ₀	0.80	
SATURATION	S _s	41.74	%
DRY DENSITY	γ_d	93.50	pcf
WET DENSITY	γ_w	105.09	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



HYDROSTATIC COMPRESSION PHASE



TRIAXIAL SHEAR PHASE

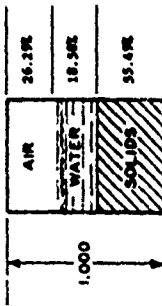
HYDROSTATIC PRESSURE, p, psi

PROJECT	Georgia Institute of Technology - S-402		
Contract No. EMCAS9-67-C-0051			
AREA			
BORING NO.			
DEPTH			
EL.			
LL	PL	PT	19
DESCRIPTION			
Machining Hall Clay			
Constant Stress Ratio, 0.4			
Initial Pressure, 0 psi			

VOLUMETRIC STRAIN, $\delta V/V_0$, PERCENT

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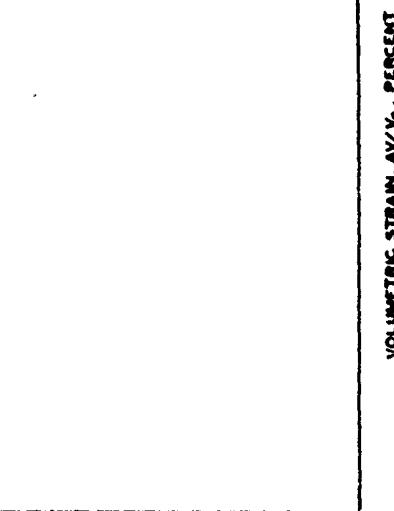
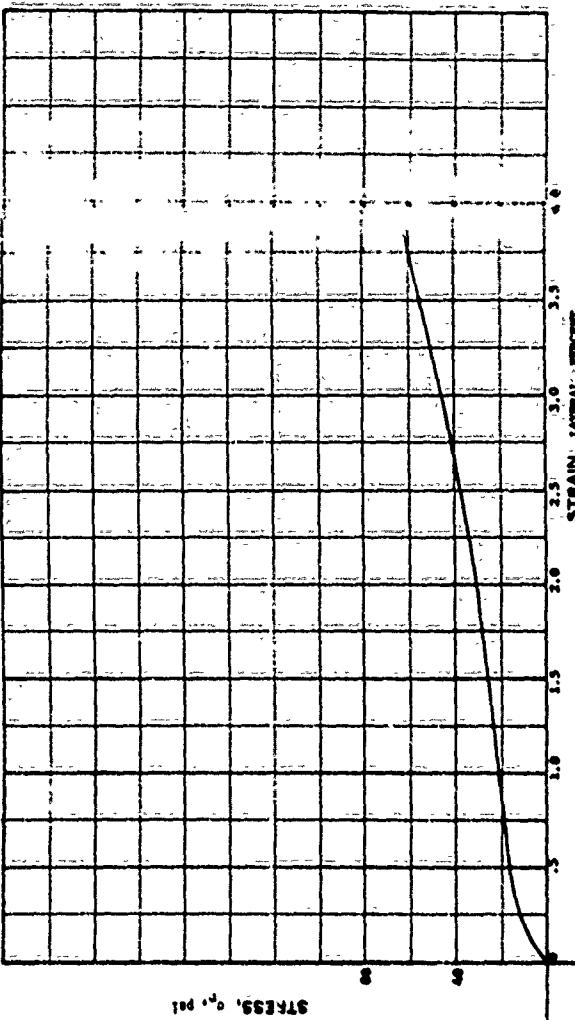
WATER CONTENT	W	12.40	%
VOID RATIO	e ₀	0.80	
SATURATION	S _s	41.76	%
DRY DENSITY	D _d	55.50	pcf
WET DENSITY	γ	105.99	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.53	cm



HYDROSTATIC COMPRESSION PHASE

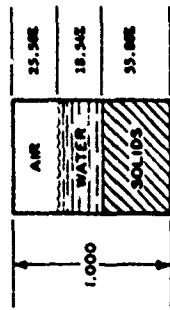
HYDROSTATIC PRESSURE, P, PSI

246



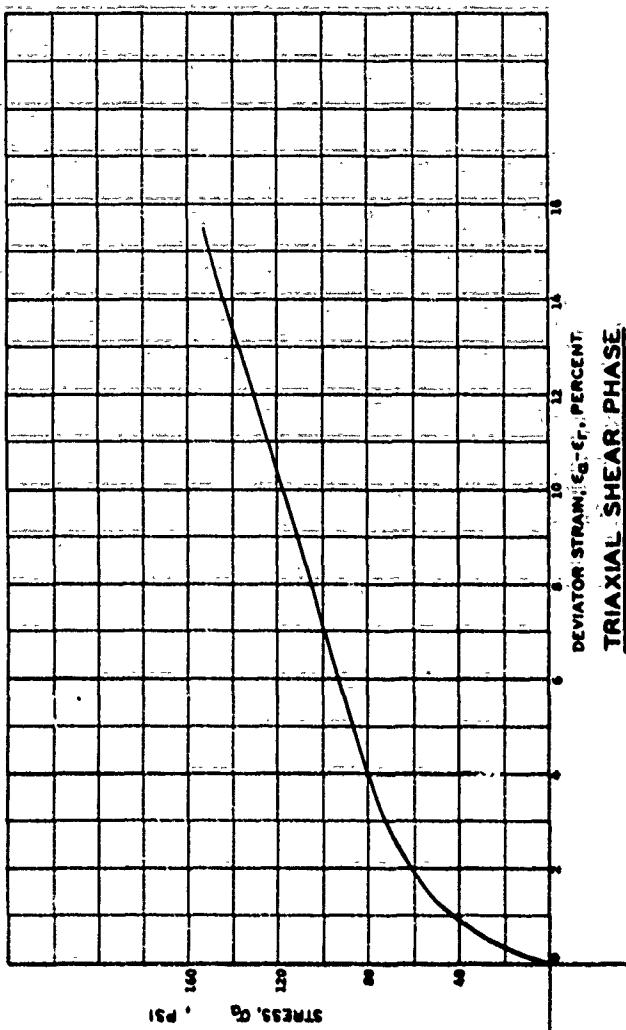
PROJECT	Georgia Institute of Technology, B-610		
Contract No. MASS-67-C-0031			
AREA			
BORING NO.	SAMPLE NO.	164	
DEPTH	DATE		
EL.	LL	PL	PI
	26	17	19
DESCRIPTION: Mottled Hill Clay			
Content: Strength Ratio, 0.6			
Initial pressure, 0 psi			

WATER CONTENT	W	12.29 %
VOID RATIO	e ₀	0.79
SATURATION	s ₀	42.62 %
DRY DENSITY	γ_d	96.16pcf
WET DENSITY	γ_w	105.71pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D _s	3.49 cm
SPECIMEN HEIGHT	H _s	7.62 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

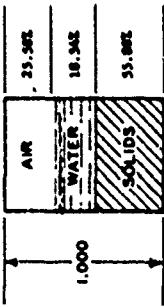


TRIAXIAL SHEAR PHASE

PROJECT	Geode Institute of Technology I-602		
Contract No.	ASCE 35-97-C-0051		
AREA			
BORING NO.	SAMPLE NO. 265		
DEPTH EL	DATE		
LL	PL	17	PT. 19
DESCRIPTION: Saturated Eut. Clay			
Compressive Strength Ratio: 0.4			
Initial Pressure: 0 psi			

VOLUMETRIC STRAIN, ΔV/V, PERCENT

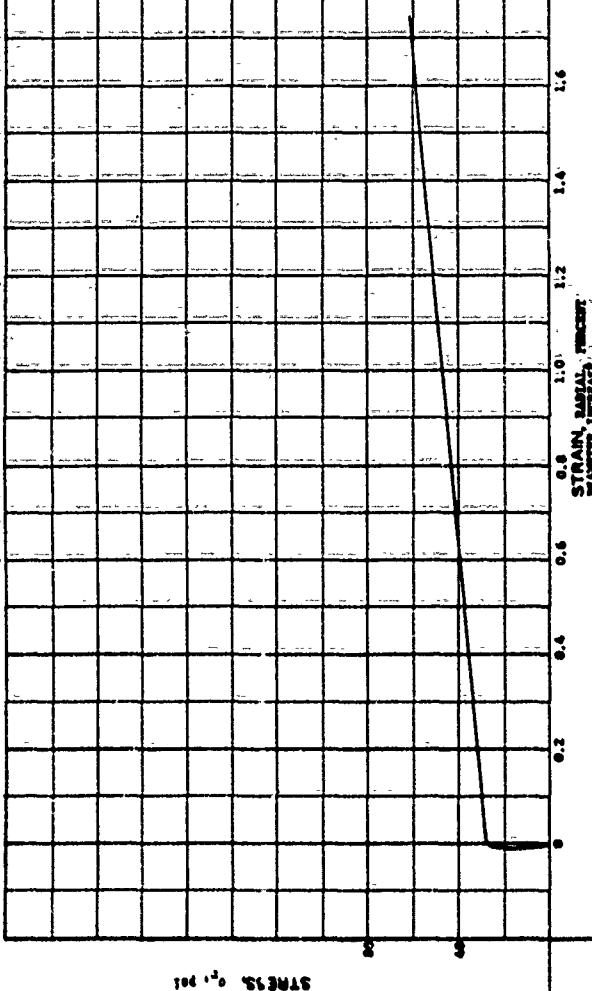
WATER CONTENT	W	12.29 %
VOID RATIO	e_0	0.79
SATURATION	S_g	42.82 %
DRY DENSITY	γ_d	94.16 PCF
WET DENSITY	γ	165.71 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.69 CM
SPECIMEN HEIGHT	H_0	7.62 CM



HYDROSTATIC COMPRESSION PHASE

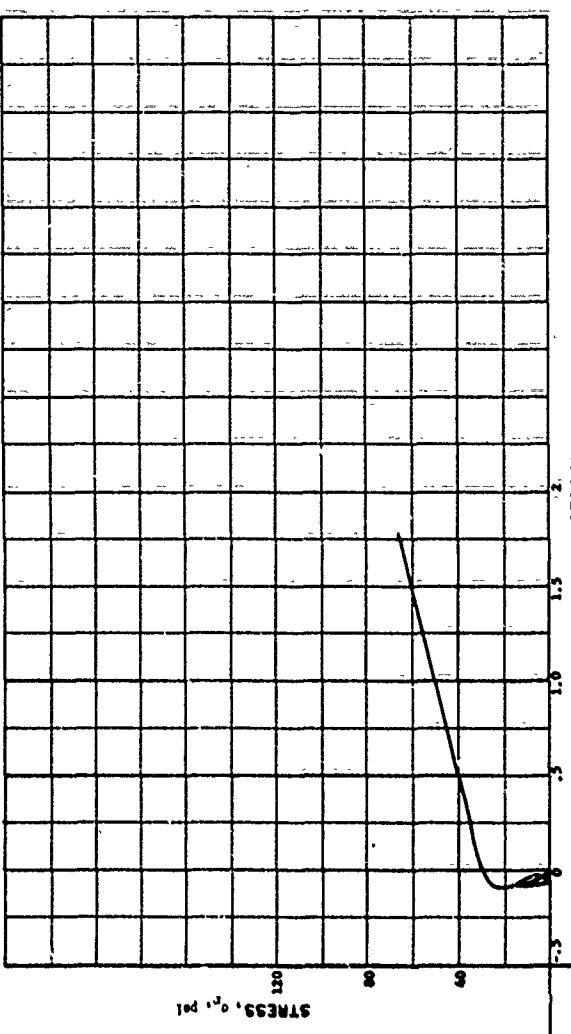
HYDROSTATIC PRESSURE, P, PSI

245

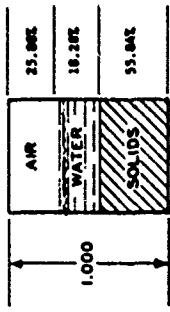


PROJECT	Georgia Institute of Technology B-602	
Contract No.: DASL9-67-4-0051		
AREA		
BORING NO.	SAMPLE NO.: 265	
DEPTH	DATE	
EL.		
1.0	36	PL
	17	Pr.
		19
DESCRIPTION: <u>Bottom Ball Clay</u>		
<u>Contract Stress Ratio, 0.6</u>		
<u>Initial pressure, 0 psi</u>		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE



WATER CONTENT	W	12.12 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	41.39 %
DRY DENSITY	D ₀	94.06 PCF
WET DENSITY	γ	105.48 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.61 CM

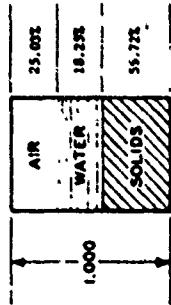
HYDROSTATIC PRESSURE, P, PSI

249

PROJECT: Georgia Institute of Technology		
Contract No.: DACA39-67-C-0031		
AREA:	SAMPLE NO.: 276	
BORING NO.	DEPTH	
EL	DATE	
LL 26	FL 17	PT 19
DESCRIPTION: Watchless Hill Clay		
Constant Stress Ratio, Q ₀ : Initial Pressure = 0.501		
Cycle Shear @ 35%		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

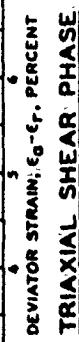
WATER CONTENT	W	11.92 %
VOID RATIO	e ₀	0.76
SATURATION	S ₀	42.18 %
DRY DENSITY	γ _d	95.56 PCF
WET DENSITY	γ _w	106.93 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	1.46 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, psi

250

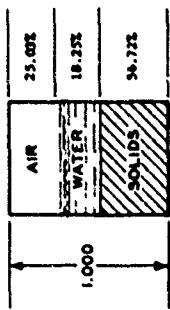


STRESS, G, psi

PROJECT	Georgia Institute of Technology, L-602
Contract No.	DAAG39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 279
DEPTH	DATE
EL.	
LL	PL 17 PI 19
DESCRIPTION: Watchung Hill Clay	
Compress. Stiff., Ratio, 0.14	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

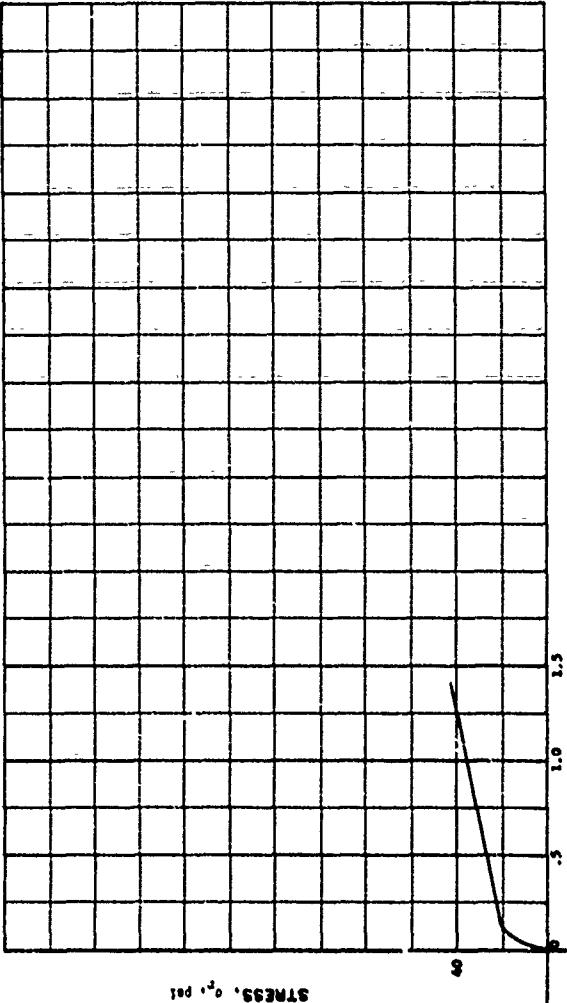
WATER CONTENT	W	11.92 %
VOID RATIO	e_0	0.76
SATURATION	S_o	42.18 %
DRY DENSITY	D_d	59.56 PCF
WET DENSITY	D_w	108.95 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.44 CM
SPECIMEN HEIGHT	H_0	7.63 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

251



STRAIN, VOLUMETRIC
DIAMETER INCREASE

-0.5 0 .5 1.0 1.5

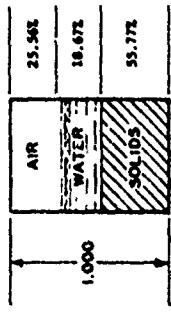
STRAIN, RADIAL, PERCENT

DIAMETER INCREASE

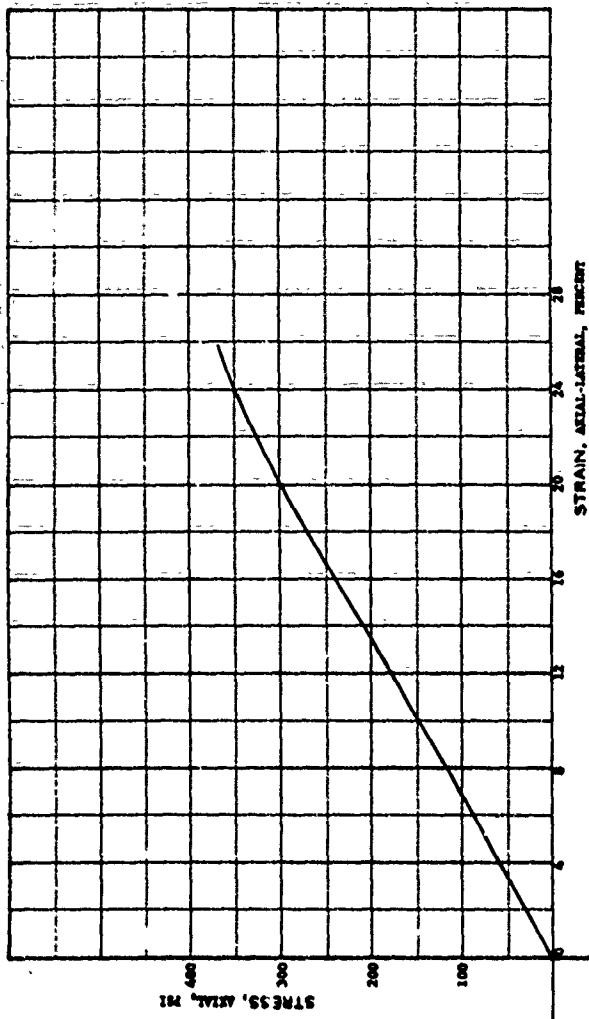
PROJECT	Georgia Institute of Technology B-602		
COLLECTED BY	D. C. COOPER 1972-001		
<u>AREA</u>			
BORING NO.	SAMPLE NO.	279	
DEPTH	DATE		
EL.	LL	PL	P1
	34	17	19
<u>DESCRIPTION</u>			
Constant Stress Ratio, 0.4			
Initial Pressure, 0 psi			

VOLMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	w	12.40 %
VOID RATIO	e_0	0.79
SATURATION	S_o	42.21 %
DRY DENSITY	γ_d	59.96pcf
WET DENSITY	γ	109.61 pcf
SPECIFIC GRAVITY	G_s	2.70



HYDROSTATIC COMPRESSION PHASE



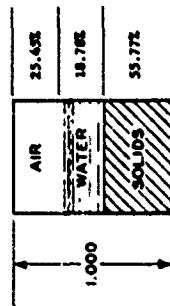
HYDROSTATIC PRESSURE, P , PSI

252

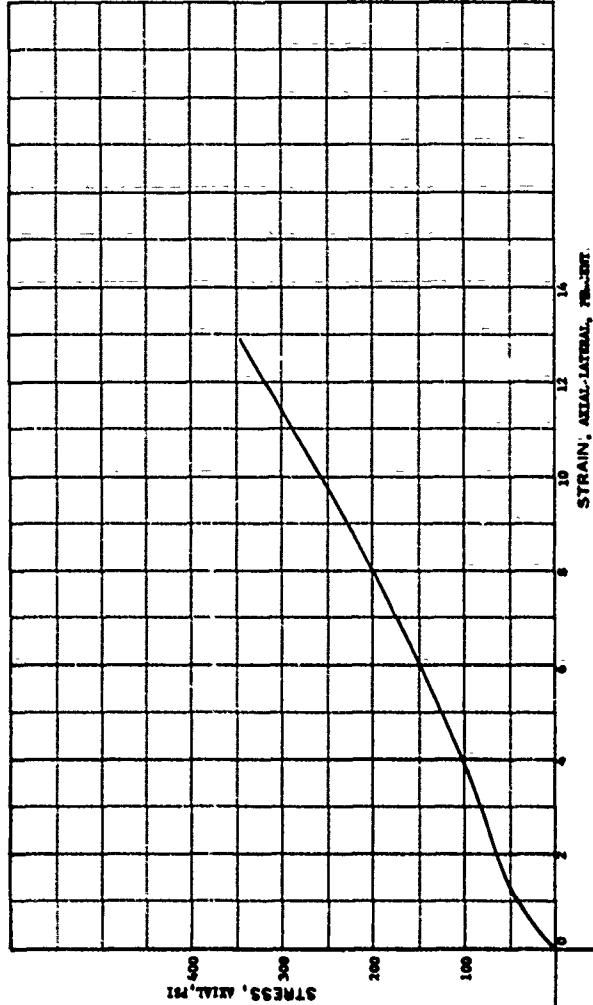
PROJECT	Se Tech A-602
Contract No.	MCAS 9-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 200
DEPTH	DATE
EL.	
LL.	PL. 17. PL. 19.

DESCRIPTION Soil sample, 3 in. dia.
Constant Stress Ratio, 0.4
Initial Pressure, 100 psi

WATER CONTENT	W	12.48 %
VOID RATIO	e_0	0.79
SATURATION	S_0	42.47 %
DRY DENSITY	γ_d	93.96pcf
WET DENSITY	γ	105.48pcf
SPECIFIC GRAVITY	G_s	2.70
CYLINDER DIAMETER	D_o	3.45 cm
SPECIMEN HEIGHT	H_o	7.62 cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

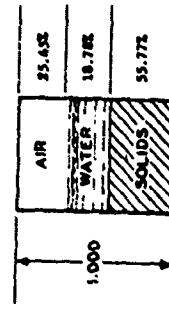
PROJECT: <u>On Tech B-600;</u>	CONTRACT NO. <u>DA-35-947-C-0051</u>	
AREA		
BORING NO.	SAMPLE NO. <u>207</u>	DATE
DEPTH EL.	PL	17
L.L.	P1	19

DESCRIPTION: Medium, silty clay

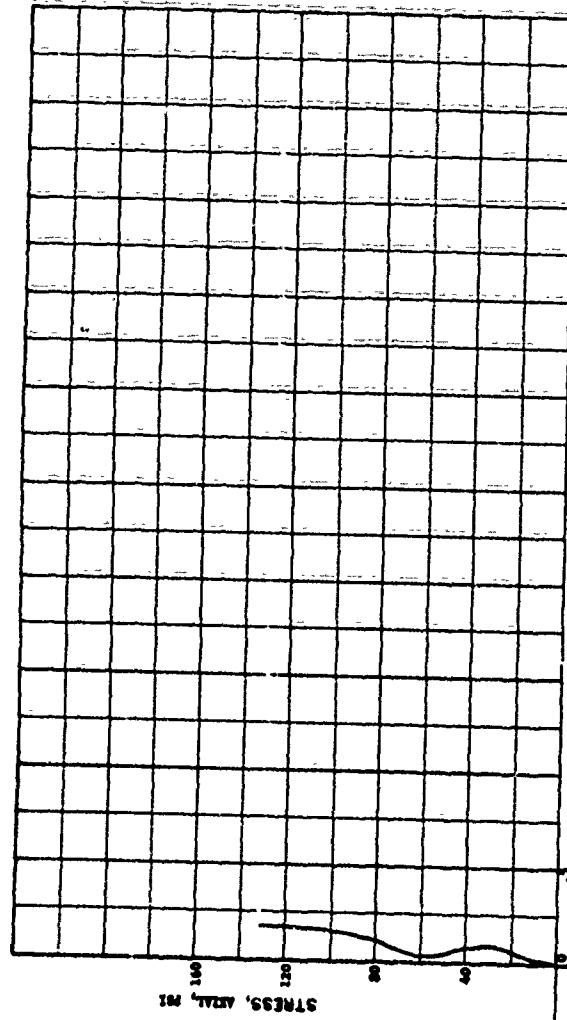
Compressive Strength Ratio, 0.4

Initial Pressure, 100 psi

WATER CONTENT	W	12.46 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	42.47 %
DRY DENSITY	D ₀	59.56 PCF
WET DENSITY	γ	105.68 PCF
SPECIFIC GRAVITY	G _g	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE



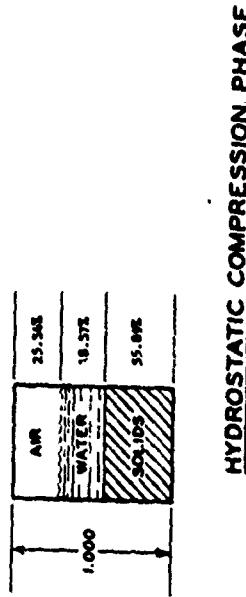
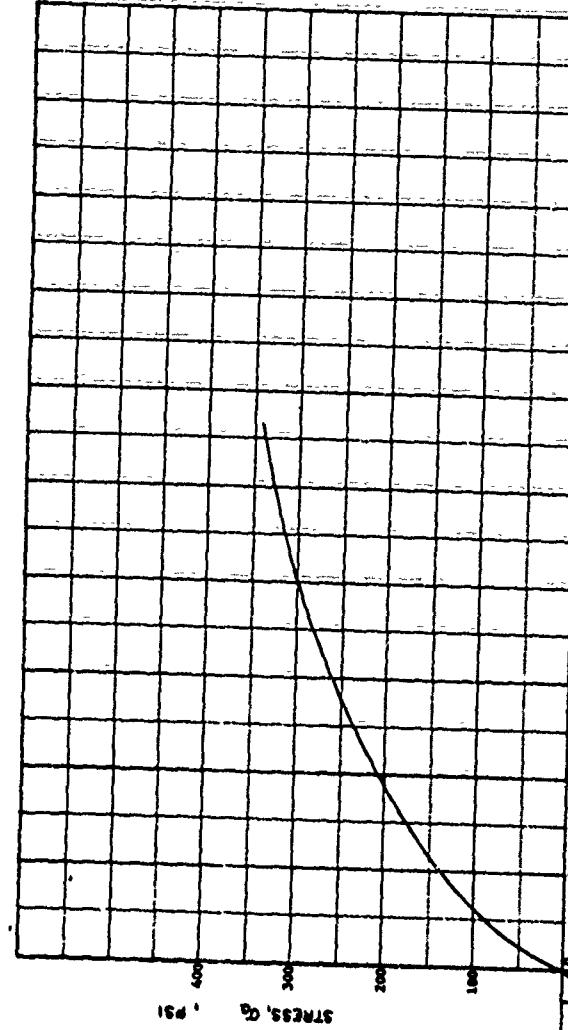
HYDROSTATIC PRESSURE, P, PSI

254

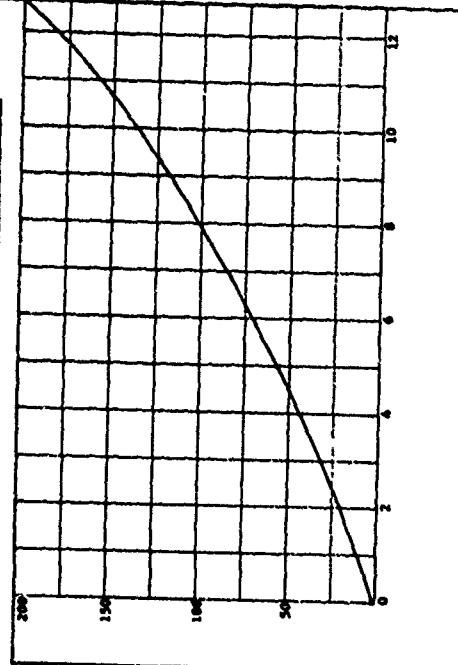
PROJECT	Ge Tech B-002:			
CoreSite No. MCASB-61-C-0011:				
AREA				
BORING NO.	SAMPLE NO. 207		DATE	
DEPTH EL	PL	27	P1	19
LL	36			
DESCRIPTION Weatherill Clay				
Constant Stress Ratio, 0.4				
Initial Pressure, 100 psi				

VOLUMETRIC STRAIN, AV/V₀, PERCENT

WATER CONTENT	W	12.31	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	42.89	%
DRY DENSITY	γ_d	94.15	pcf
WET DENSITY	γ_w	165.76	pcf
SPECIFIC GRAVITY	G _w	2.70	
SPECIMEN DIAMETER	D ₀	3.48	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



VOLUMETRIC STRAIN, AV/V₀, PERCENT

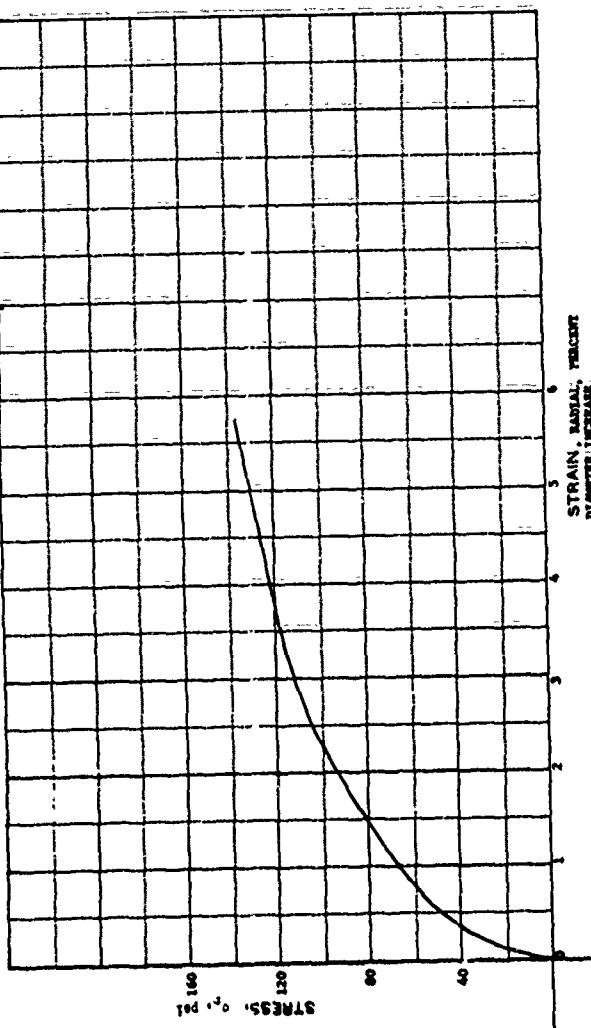


HYDROSTATIC PRESSURE, P, PSI

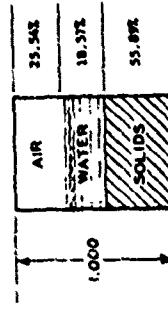
255

PROJECT	General Electric Oil Technology R-602		
Contract No. RAC19-67-G-0051			
AREA			
BORING NO.	SAMPLE NO. 237		
DEPTH EL.	DATE		
LL	36	PL	17
		P1	19
DESCRIPTION Weathered Bell Clay			
Contact Stress Ratio, 0.4			
Initial Pressure, 200 psi			

WATER CONTENT	W	12.31 %
VOID RATIO	e ₀	0.79
SATURATION	S _o	42.69 %
DRY DENSITY	D _d	98.15 PCF
WET DENSITY	D _w	105.76 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.48 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE



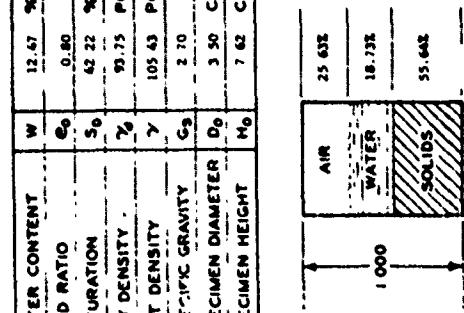
HYDROSTATIC PRESSURE, P, PSI

256

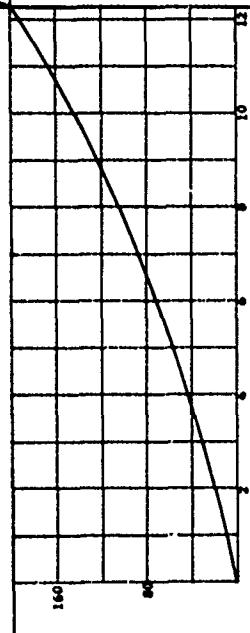
PROJECT	Georgia Institute of Technology B-402	
Contract No. DACA19-67-C-0031		
AREA	SAMPLE NO. 237	
BORING NO.	DATE	
DEPTH EL	PL	P1
LL	17	19
DESCRIPTION	Hatching Hill Clay	
Constant Stress Ratio, 0.4		
Initial Pressure, 200 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.67 %
VOID RATIO	e ₀	0.60
SATURATION	S ₀	42.22 %
DRY DENSITY	-	76.935 PCF
WET DENSITY	γ	105.63 PCF
SPECIMEN GRAVITY	G _s	2.70
SPECIMEN DIAMETER D ₀	D ₀	3.50 CM
SPECIMEN HEIGHT H ₀	H ₀	7.62 CM



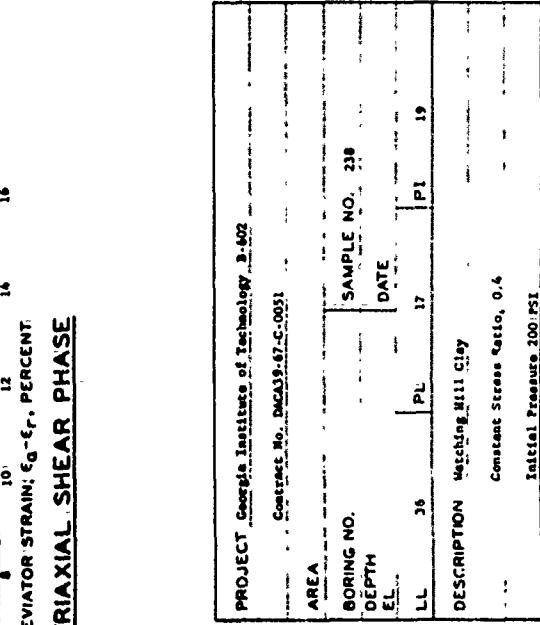
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, p, PSI

257

TRIAXIAL SHEAR PHASE

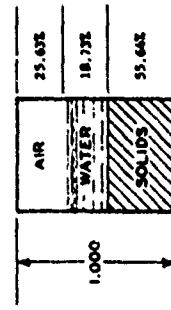


VOLUME STRAIN, $\Delta V/V_0$, PERCENT

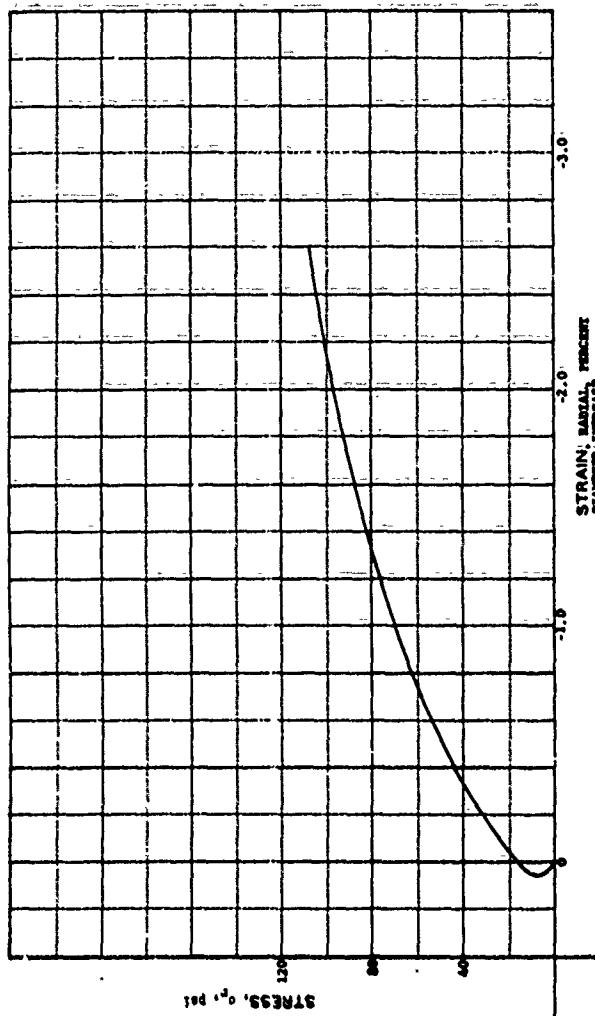
Initial Pressure 200 PSI
Constant Stress Ratio, 0.4

PROJECT Georgia Institute of Technology B-402
Contract No. DEC-39-67-C-0051
AREA _____
BORE NO. _____
DEPTH _____
E.L. _____
LL. 26 PL 17 PI 19
DESCRIPTION Wetting, Still Clay
Initial Pressure 200 PSI

WATER CONTENT	W	12.47	%
VOID RATIO	e_0	0.80	
SATURATION	S_o	42.22	%
DRY DENSITY	γ_d	93.75	pcf
WET DENSITY	γ_w	105.49	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.62	cm



HYDROSTATIC COMPRESSION PHASE



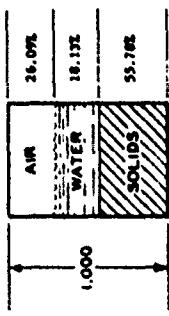
HYDROSTATIC PRESSURE, P, PSI

258

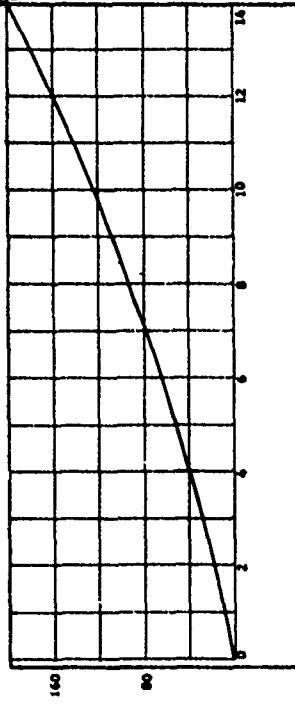
PROJECT	Georgia Institute of Technology - B-62		
Contract No. DACA19-67-C-0021			
AREA			
BORING NO.	SAMPLE NO. 238		
DEPTH	DATE		
EL.	PL	17	PI
LL	36		19
DESCRIPTION: Weathered Hill Clay			
Constant Stress Ratio, 0.4			
Initial Pressure 200 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.04 %
VOID RATIO	e_0	0.79
SATURATION	S_0	41.00 %
DRY DENSITY	γ_d	23.98pcf
WET DENSITY	γ	105.29pcf
SPECIFIC GRAVITY	G_s	2.70
APERTURE DIAMETER	D_0	3.49 cm
SPECIMEN HEIGHT	H_0	7.63 cm

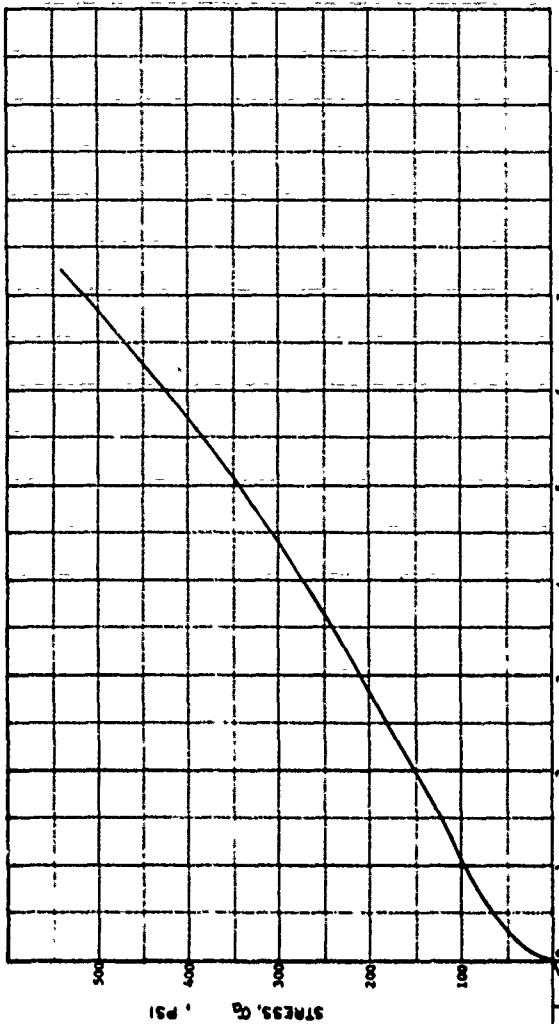


HYDROSTATIC COMPRESSION PHASE



VOLUME STRAIN, $\Delta V/V_0$, PERCENT

259



DEVIATOR STRAIN, $\epsilon_d - \epsilon_p$, PERCENT
TRIAXIAL SHEAR PHASE

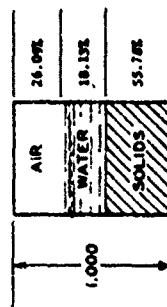
PROJECT	Georgia Institute of Technology, B-602	
Contract No.	DACA39-67-C-0051	
AREA		
BORING NO.	SAMPLE NO. 239	
DEPTH	DATE	
EL		
LL	PL	P1
	17	19

DESCRIPTION: Watch Hill Clay

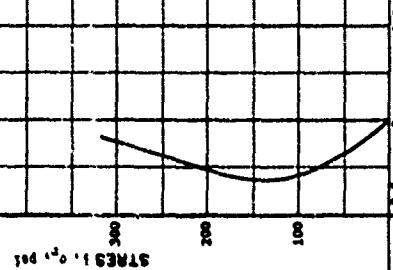
Constant Stress Ratio, 0.4

Initial Pressure, 200 psi

WATER CONTENT	W	12.04	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	51.00	%
DRY DENSITY	γ_d	93.98	pcf
WET DENSITY	γ	105.29	pcf
SPECIFIC GRAVITY	G _s	2.10	
SPECIMEN DIAMETER	D _o	3.46	cm
SPECIMEN HEIGHT	H _o	7.63	cm



HYDROSTATIC COMPRESSION PHASE



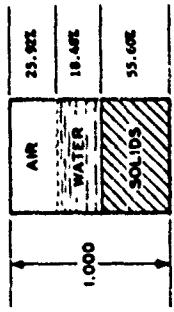
HYDROSTATIC PRESSURE, P, PSI

260

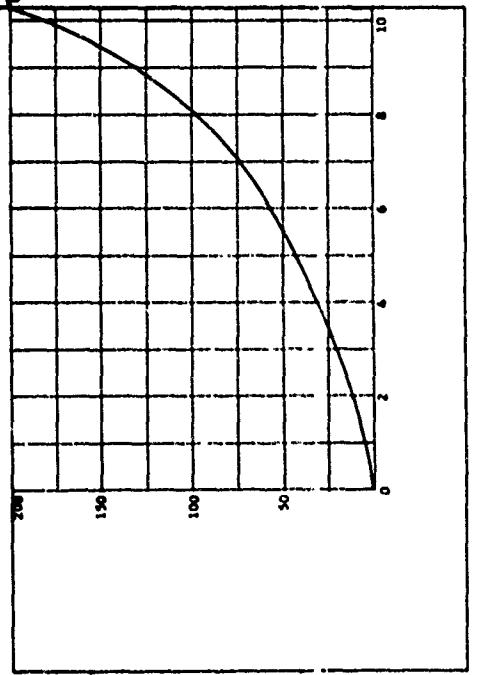
PROJECT	Georgia Institute of Technology, B-502		
Contract No.	DACA39-67-C-0051		
<u>AREA</u>			
BORING NO.	SAMPLE NO.	DATE	
DEPTH EL			
LL	26	PL	17
		P1	19

DESCRIPTION: Witching Hill Clay
Constant stress Ratio, 0.4
Initial Pressure, 200 psi

WATER CONTENT	W	12.31 %
VOID RATIO	e ₀	0.96
SATURATION	S ₀	41.61 %
DRY DENSITY	γ_d	93.68 PCF
WET DENSITY	γ'	103.21 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE

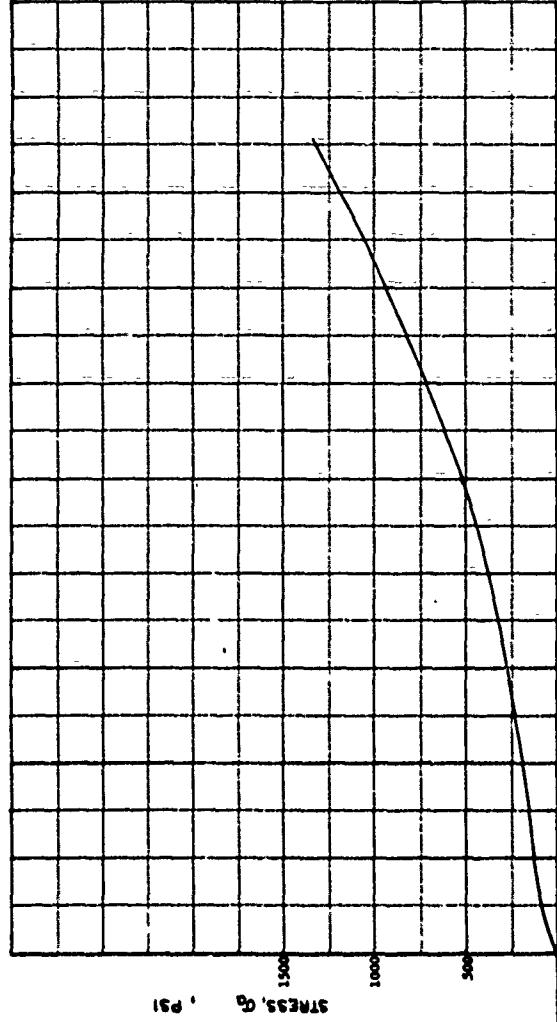


HYDROSTATIC PRESSURE, P, PSI

100

STRESS, Q, , PSI

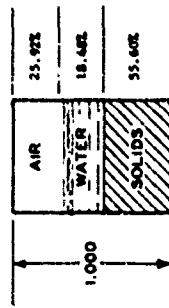
DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE



PROJECT	Georgia Institute of Technology, A-602
Contract No.	DMO39.67-C-0051
AREA	
BORING NO.	SAMPLE NO. 255
DEPTH	DATE
EL.	
LL	PL 17 PI 19
DESCRIPTION <u>Wachapreague Clay</u>	
Constant Stress Ratio, 0.4	
Initial Pressure, 200 psi	

100

WATER CONTENT	W	12.31 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	41.61 %
DRY DENSITY	γ_d	91.68pcf
WET DENSITY	γ_w	105.21pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE

STRESS, σ , psi

-3.5
-3.0
-2.5
-2.0
-1.5
-1.0
-0.5
0

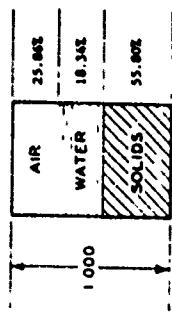
STRAIN, RADIAL, PERCENT
SOLID SURFACE

HYDROSTATIC PRESSURE, P , psi

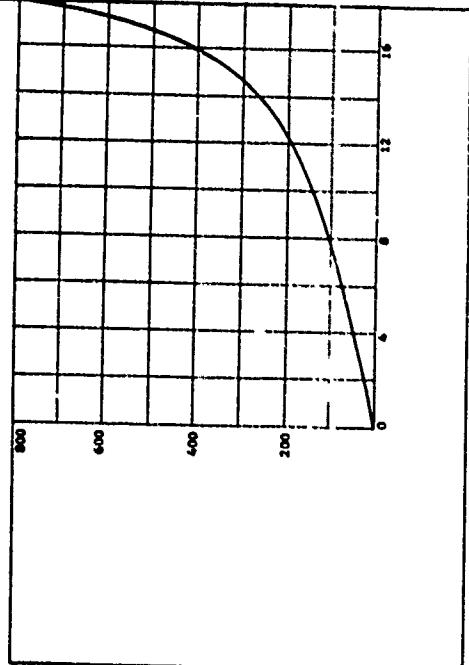
262

PROJECT	Georgia Institute of Technology B-602		
Contract No. DACA09-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 235		
DEPTH	DATE		
EL.	PL	17	PT 19
DESCRIPTION <u>Watching Mill Clay</u>			
Constant Stress Ratio, 0.4			
Initial Pressure, 200 psi			

WATER CONTENT	W	12.17	%
VOID RATIO	e ₀	0.79	
SATURATION	S ₀	61.50	%
DRY DENSITY	γ _d	94.01	pcf
WET DENSITY	γ _w	105.45	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

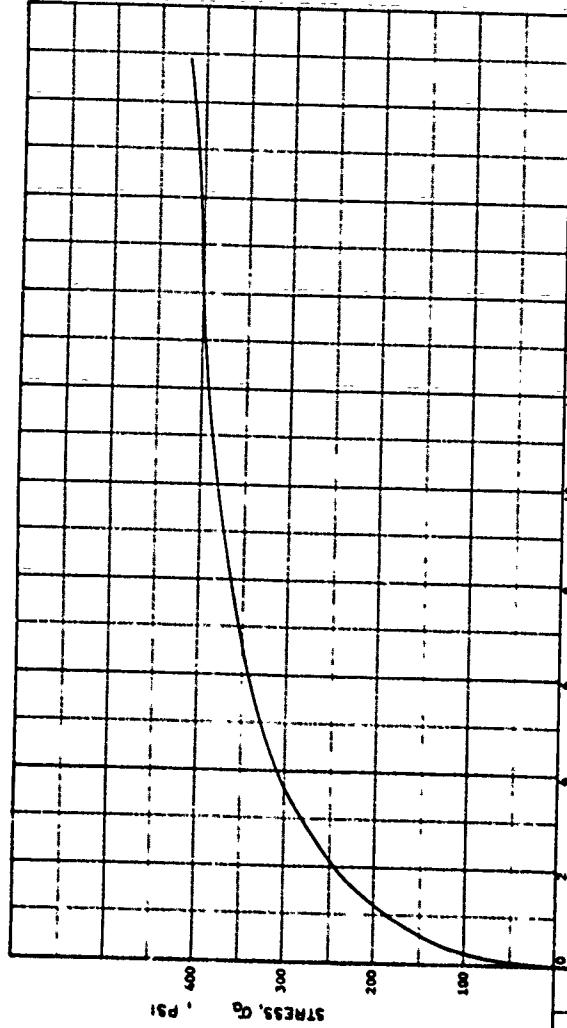


HYDROSTATIC COMPRESSION PHASE

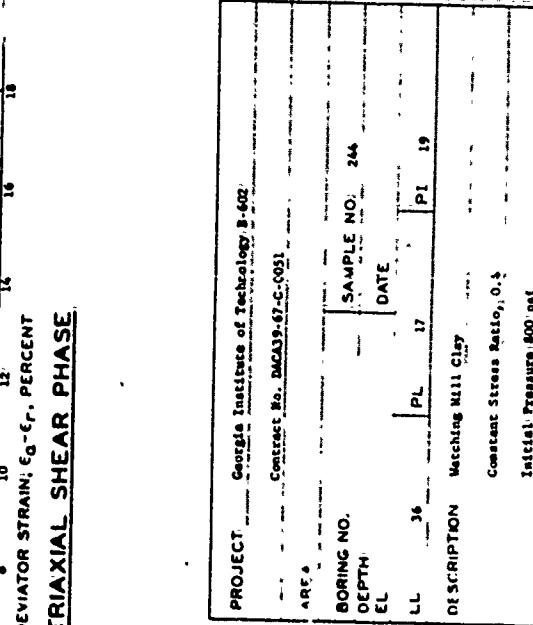


Hydrostatic Pressure, P , PSI

26.3

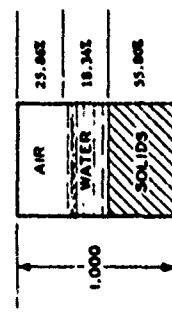


TRIAXIAL SHEAR PHASE

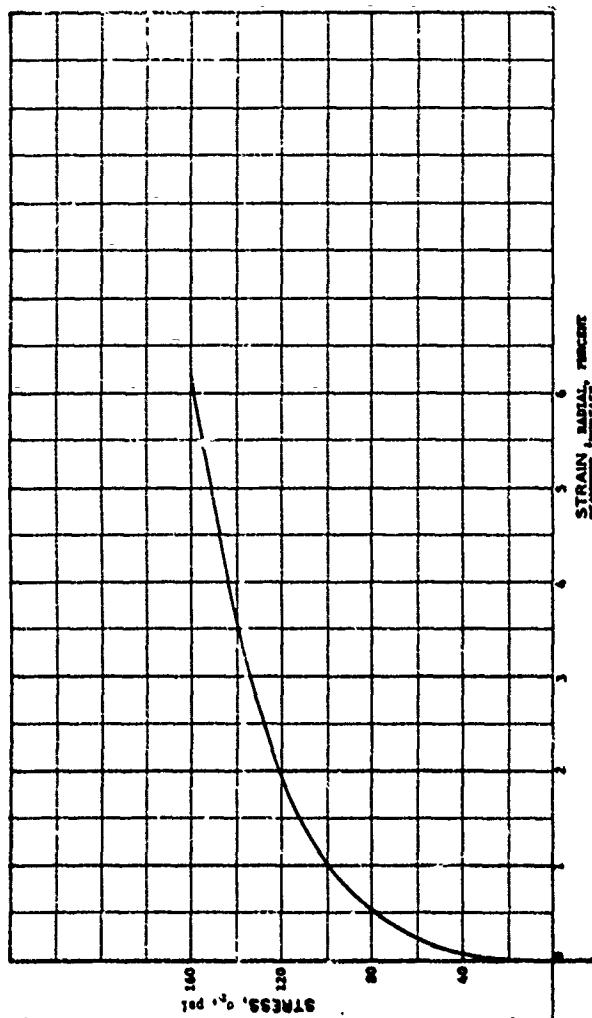


PROJECT	Georgia Institute of Technology B-402
Contract No.	DAC39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 244
DEPTH	DATE
EL	
LL	PL
DESCRIPTION	
Watchung Hill Clay	
Constant Stress Ratio, 0.4	
Initial Pressure 600 psi	

WATER CONTENT	w	12.17	%
VOID RATIO	e_0	0.79	
SATURATION	S_o	41.50	%
DRY DENSITY	γ_d	96.01	pcf
WET DENSITY	γ'	105.45	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.49	cm
SPECIMEN HEIGHT	H_o	7.62	cm



HYDROSTATIC COMPRESSION PHASE



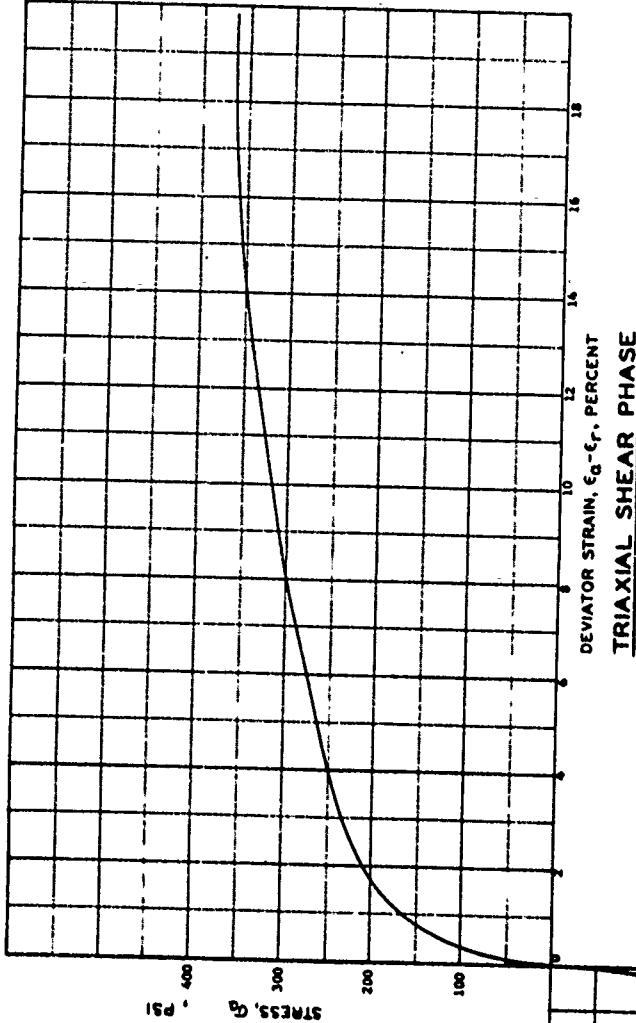
HYDROSTATIC PRESSURE, psi, psi

264

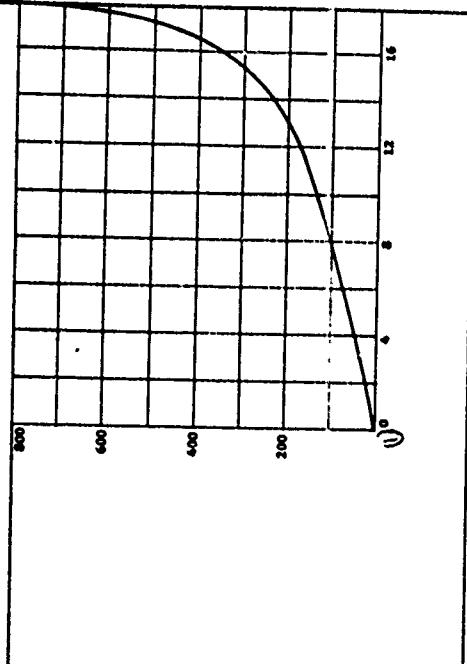
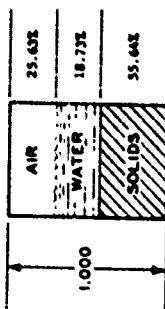
PROJECT <u>Concrete Institute of Technology 2.002</u>	
Contract No. <u>SGA19-07-C-0001</u>	
AREA	
SPRING NO.	SAMPLE NO. <u>244</u>
DEPTH EL	DATE
L.L. <u>36</u>	PL <u>17</u> P1 <u>19</u>
DESCRIPTION <u>Measuring 8111 clay</u>	
Constant Stress Ratio, 0.4	
Initial Pressure, 800 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.47	%
VOID RATIO	e ₀	0.90	
SATURATION	S ₀	42.22	%
DRY DENSITY	γ_d	93.75	pcf
WET DENSITY	γ_w	105.43	pcf
SPECIFIC GRAVITY	G _s	2.70	
APPENDANT DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



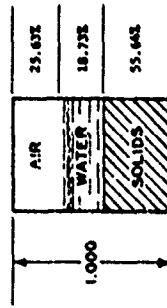
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

PROJECT	Georgia Institute of Technology I-602
Contract No.	DA-39-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 261
DEPTH	DATE
EL.	
LL	PL
	P1
DESCRIPTION Matching Mill Clay	
-- Constant Stress Ratio, 0.4	
Initial Pressure, 800 psi	

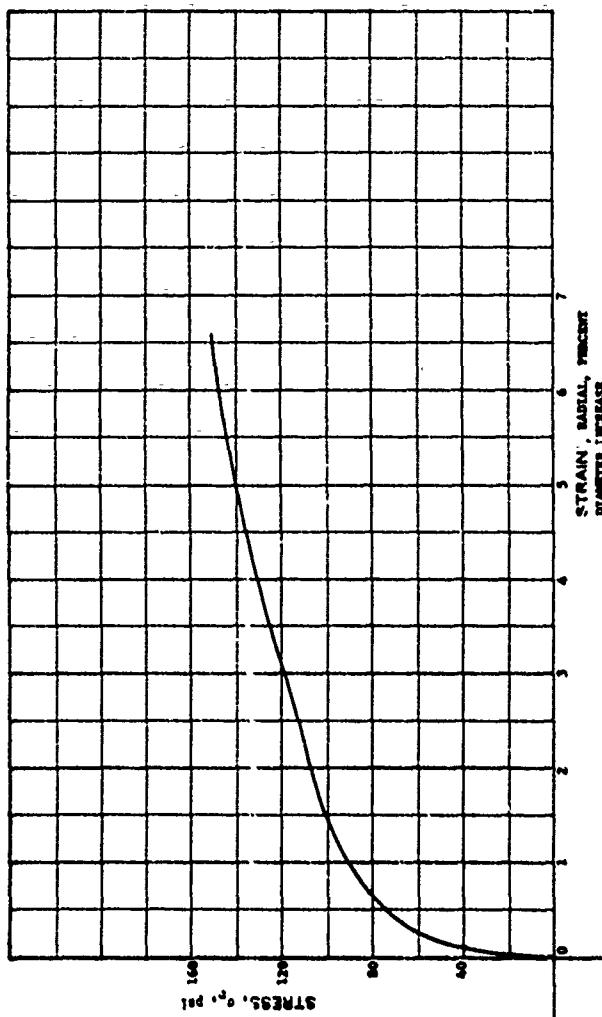
WATER CONTENT	W	12.47 %
VOID RATIO	e ₀	0.88
SATURATION	S _o	43.22 %
DRY DENSITY	D _d	93.75pcf
WET DENSITY	γ _w	105.43 pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

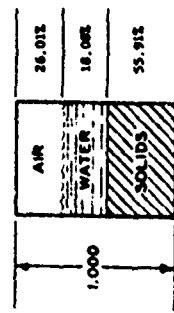
266



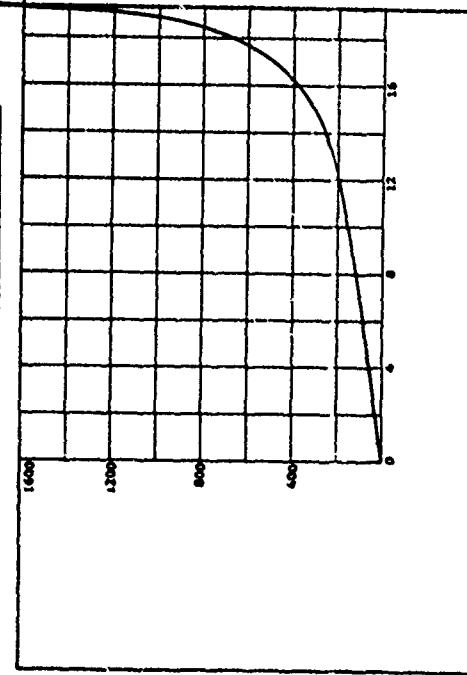
PROJECT	Georgia Institute of Technology L-602		
	Contract No. 20039-17-C-0051		
AREA			
BORING NO.	SAMPLE NO. 261		
DEPTH EL.	DATE		
LL	36	PL	17
		P1	19
DESCRIPTION <u>Shallow, silty clay</u>			
Constant Stress Ratio, 0.4			
Initial Pressure, 600 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.98 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	41.01 %
DRY DENSITY	γ_d	96.19 PCF
WET DENSITY	γ_w	105.48 PCF
SPECIFIC GRAVITY	G _s	2.70
DIAMETER D ₀	D ₀	3.69 CM
SPECIMEN HEIGHT H ₀	H ₀	7.63 CM

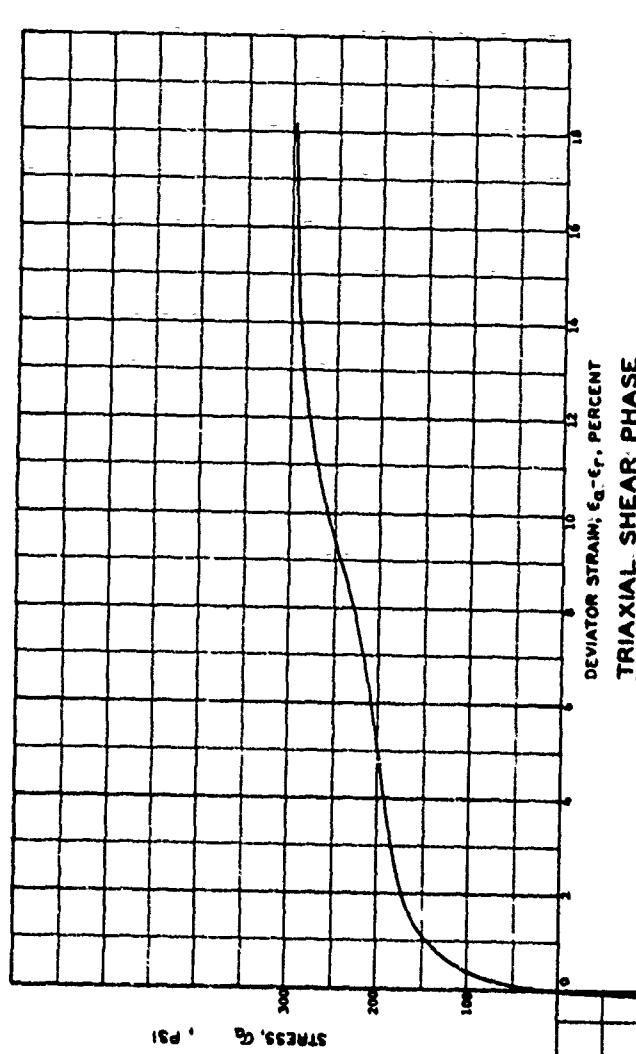


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

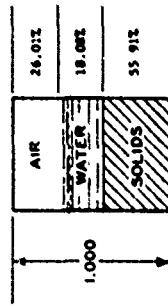
267



DEVIATOR STRAIN, $\epsilon_d - \epsilon_r$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology B-602		
Contract No.	MACA947-C-0051		
<hr/>			
AREA			
BORING NO.	SAMPLE NO.	240	
DEPTH EL	DATE		
LL	PL	17	PI 19
<hr/>			
DESCRIPTION	Watchdog Hill Clay		
Constant Stress Ratio, 0.4			
Total Pressure, 1600 psi			

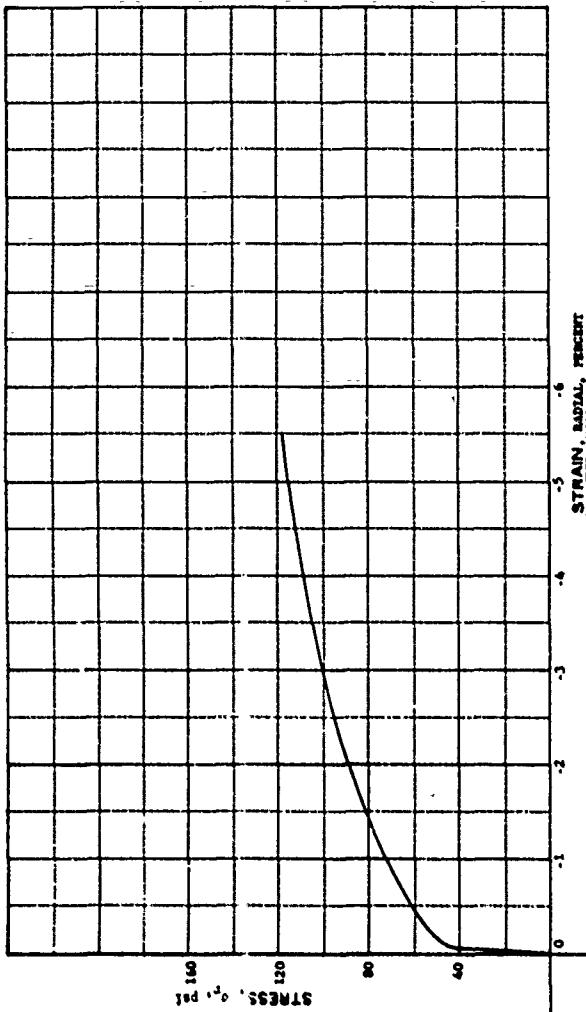
WATER CONTENT	w	11.96 %
VOID RATIO	e ₀	0.79
SATURATION	s _o	41.01 %
DRY DENSITY	γ_d	94.19pcf
WET DENSITY	γ_w	105.48pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D ₀	3.69 cm
SPECIMEN HEIGHT	H ₀	7.43 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

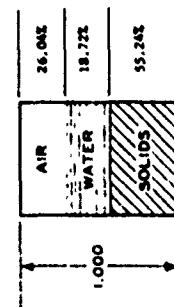
262



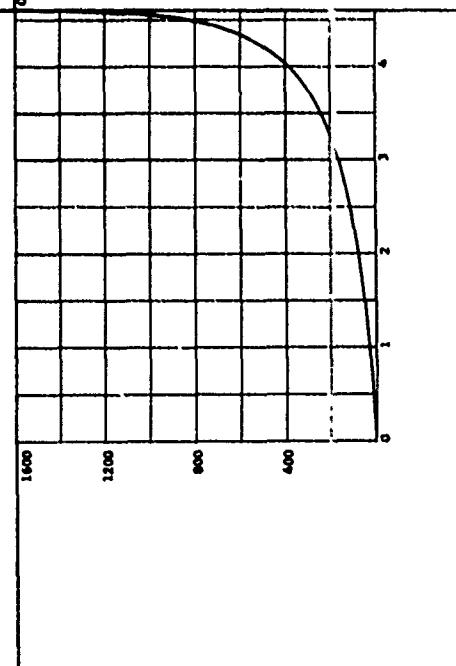
PROJECT	Georgia Institute of Technology B-602		
Contract No. DACA19-67-C-0051			
AREA			
BORING NO.	SAMPLE NO 240		
DEPTH	DATE		
EL.	PL	17	PT. 19
DESCRIPTION Weathering Ball Clay			
Comsat Stress Ratio, 0.4			
Initial Pressure, 1600 psi			

VOLUMETRIC STRAIN, AV/V₀, PERCENT

WATER CONTENT	W	12.56 %
VOID RATIO	e ₀	0.81
SATURATION	S _o	41.84 %
DRY DENSITY	D _d	93.06pcf
WET DENSITY	D _w	104.75pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.02 cm

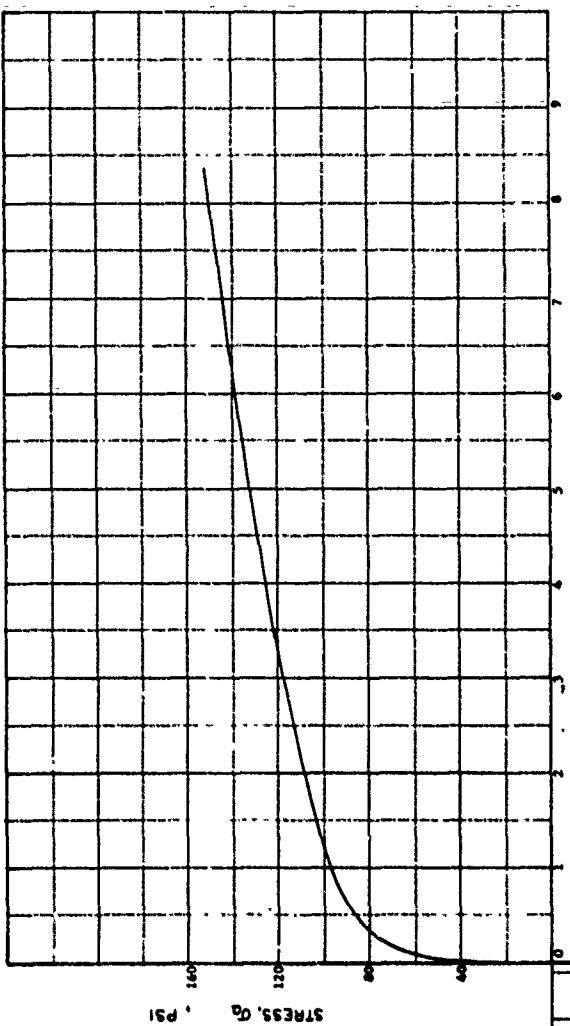


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

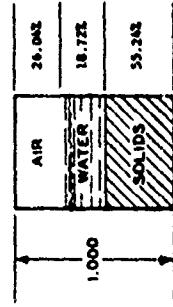
269



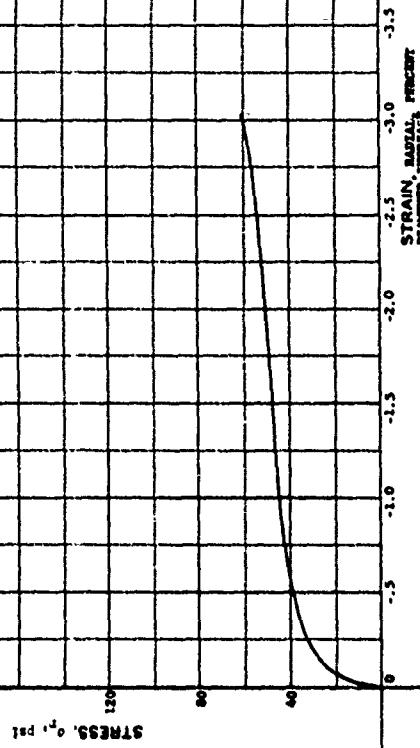
DEVIATOR STRAIN, $\epsilon_0 - \epsilon_r$. PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology 3-602		
Contract No.	Dec 19-67-C-0091		
AREA			
BORE NO.		SAMPLE NO. 307	
DEPTH EL.		DATE	
LL	36	PL	17
		P1	19
DESCRIPTION	Matching Hill Clay		
Constant Stress Ratio, 0.4			
Initial Pressure, 1600 psi			

WATER CONTENT	W	12.56 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	41.84 %
DRY DENSITY	γ_d	93.08pcf
WET DENSITY	γ_w	104.75pcf
SPECIFIC GRAVITY	G ₀	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE



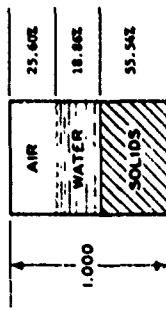
HYDROSTATIC PRESSURE, P - PSI

270

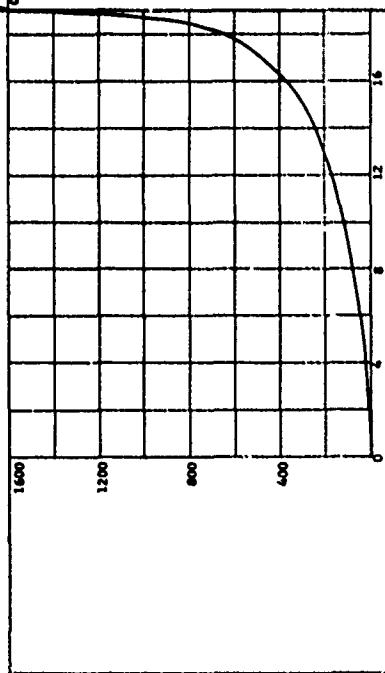
PROJECT <u>Georgia Institute of Technology 1-62</u>	
Contract No. DAC39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. <u>307</u>
DEPTH	DATE
EL.	
LL	PL
	17
	PI
	19
DESCRIPTION <u>Watching Hill Clay</u>	
Constant Stress Ratio, 0.4	
Initial pressure, 1600 psi	

VOLUME STRAIN, AV/V0 - PERCENT

WATER CONTENT	W	12.57 %
VOID RATIO	e_0	0.80
SATURATION	S_o	42.41 %
DRY DENSITY	γ_d	93.57pcf
MET. DENSITY	γ_m	105.34pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 CM
SPECIMEN HEIGHT	H_o	7.02 CM

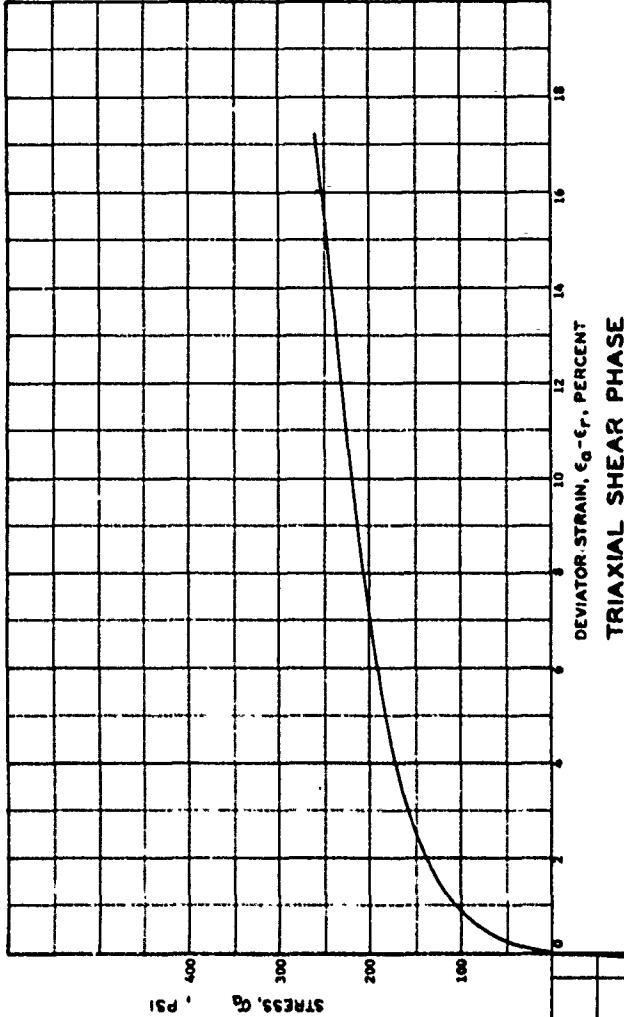


HYDROSTATIC COMPRESSION PHASE



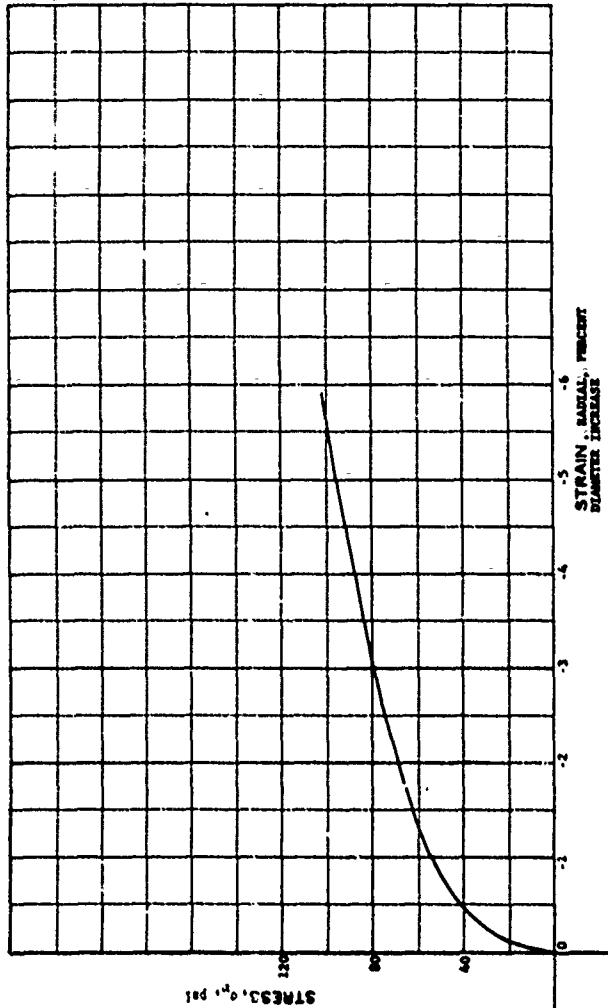
HYDROSTATIC PRESSURE, P, PSI

271



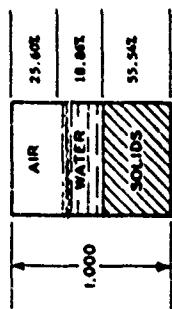
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology B-602		
Contract No. DACA39-67-C-0031			
AREA			
BORING NO.	SAMPLE NO. 329		
DEPTH	DATE		
EL.	PL	17	F1 19
DESCRIPTION <u>Uachingah Hill Clay</u>			
Constant Stress Ratio, 0.4			
Initial Pressure, 1600 psi			



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	12.57 %
VOID RATIO	e₀	0.80
SATURATION	S₀	42.41 %
DRY DENSITY	γ₀	93.51 PCF
WET DENSITY	γ'	105.34 PCF
SPECIFIC GRAVITY	G₀	2.70
SPECIMEN DIAMETER	D₀	3.49 CM
SPECIMEN HEIGHT	H₀	7.62 CM



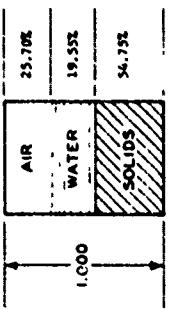
272

HYDROSTATIC PRESSURE, P, PSI

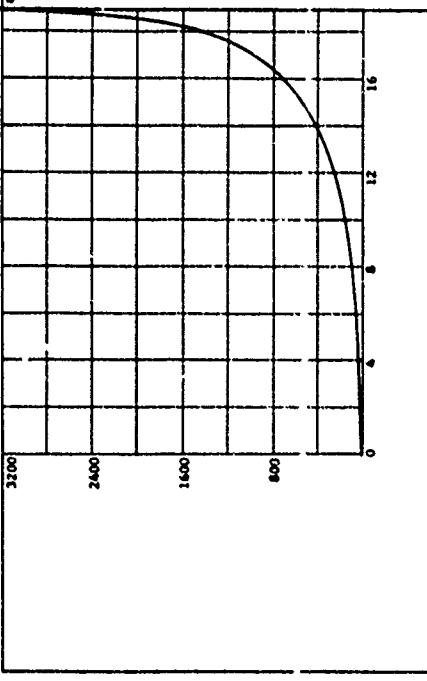
PROJECT	Georgia Institute of Technology, B-602	
Contract No. DECA39-67-C-0051.		
AREA		
BORING NO.	SAMPLE NO.	DATE
DEPTH EL.	PL	PI
LL	16	17
		19
DESCRIPTION <u>Machine Mill Clay</u>		
Constant Stress Ratio, 0.4		
Initial Pressure, 1600 psi		

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	13.22 %
VOID RATIO	e_0	0.83
SATURATION	S_o	43.20 %
DRY DENSITY	γ_d	92.25pcf
WET DENSITY	γ	104.45pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.57 cm
SPECIMEN HEIGHT	H_o	7.36 cm

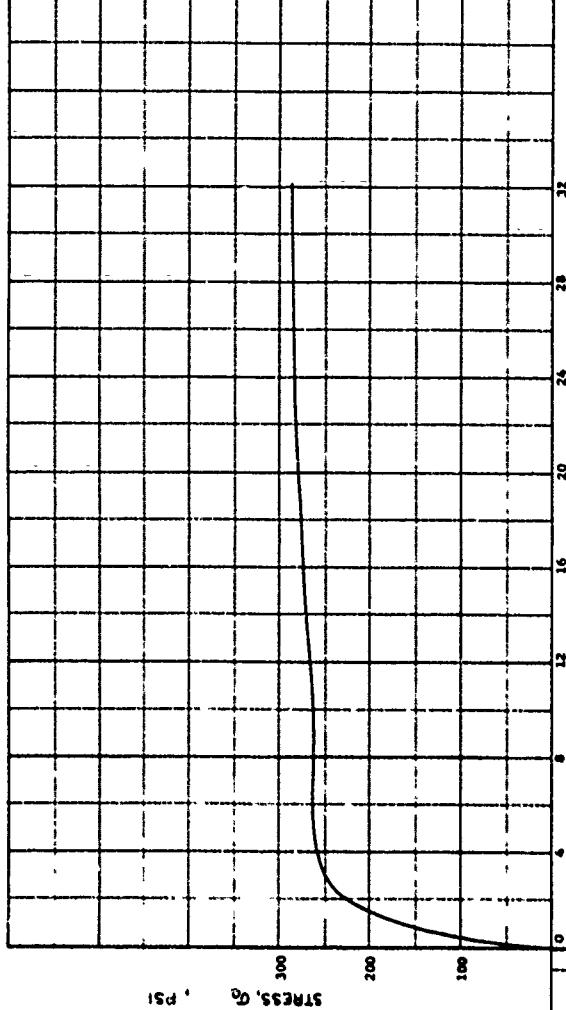


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , PSI

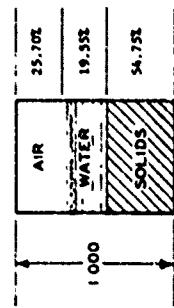
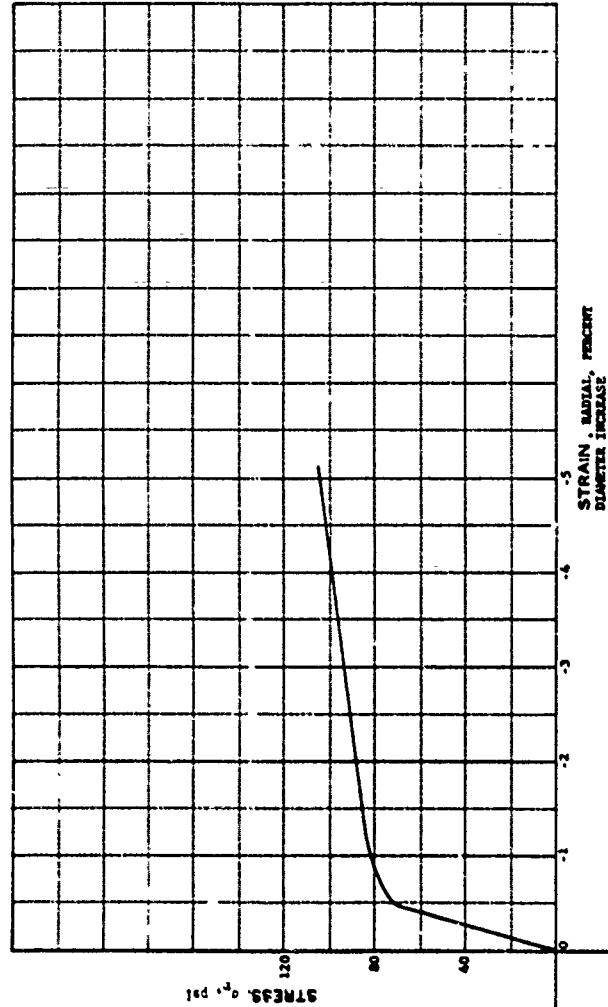
273



DEVIATOR STRAIN, $\epsilon_d - \epsilon_f$, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology B-602	
Contract No. DACA39-67-C-0031		
AREA		
BORING NO.	SAMPLE NO. 30	
DEPTH	DATE	
EL.		
L.L.	PL	P1
DESCRIPTION <u>switching Hill Clay</u>		
Constant Stress Ratio, 0.4		
Initial Pressure, 3200 psi		

WATER CONTENT	W	13.22 %
VOID RATIO	e_0	0.83
SATURATION	S_g	43.20 %
DRY DENSITY	γ_d	92.35pcf
WET DENSITY	γ	105.45pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.37 cm
SPECIMEN HEIGHT	H_o	7.16 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

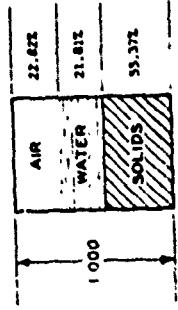
274

PROJECT	Georgia Institute of Technology B-612		
Contract No.	DMC39-67-C-0051		
<u>AREA</u>			
BORING NO.	SAMPLE NO. 203	DATE	
DEPTH E.L.	PL	17	PL 19
LL	26		

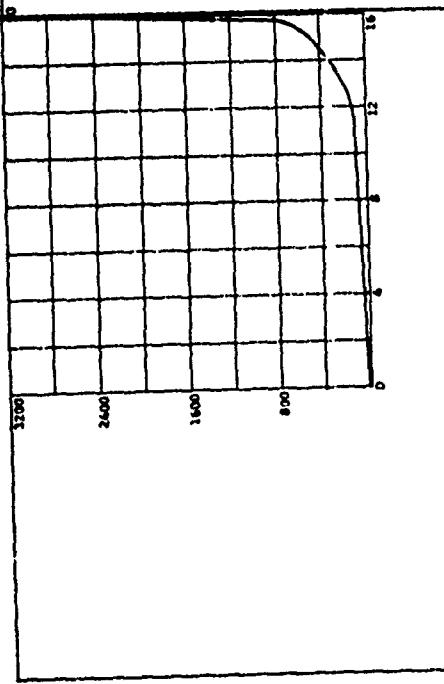
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

DESCRIPTION Watching Hill Clay
Constant Stress Ratio, 0.4
Initial Pressure, 2200 psi

WATER CONTENT	W	16.59	%
VOID RATIO	e ₀	0.81	
SATURATION	S _o	48.86	%
DRY DENSITY	γ _d	93.29	pcf
WET DENSITY	γ	106.90	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

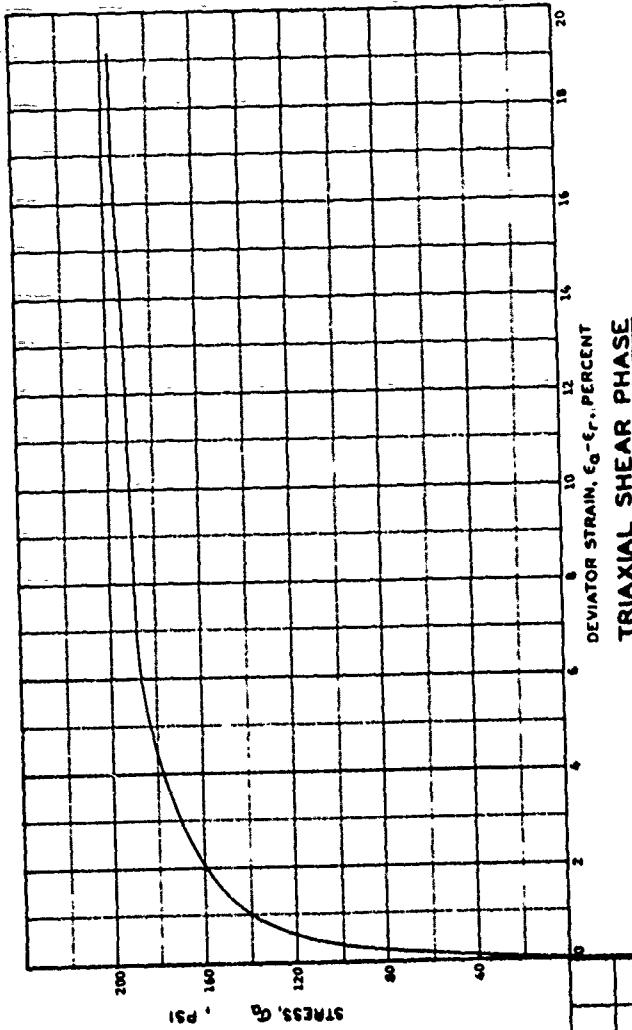


HYDROSTATIC COMPRESSION PHASE



2/5

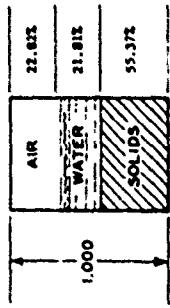
HYDROSTATIC PRESSURE, P, PSI



TRIAXIAL SHEAR PHASE

PROJECT		Georgia Institute of Technology S-602	
		Contract No. DACA39-67-C-0051	
AREA			
BORING NO.	SAMPLE NO.	DATE	
DEPTH S.L.		L.L.	P.L.
36	30A	17	19
DESCRIPTION			
Matching Mill Clay			
Constant Stress Ratio, 0.4			
Initial Pressure, 3200 psi			

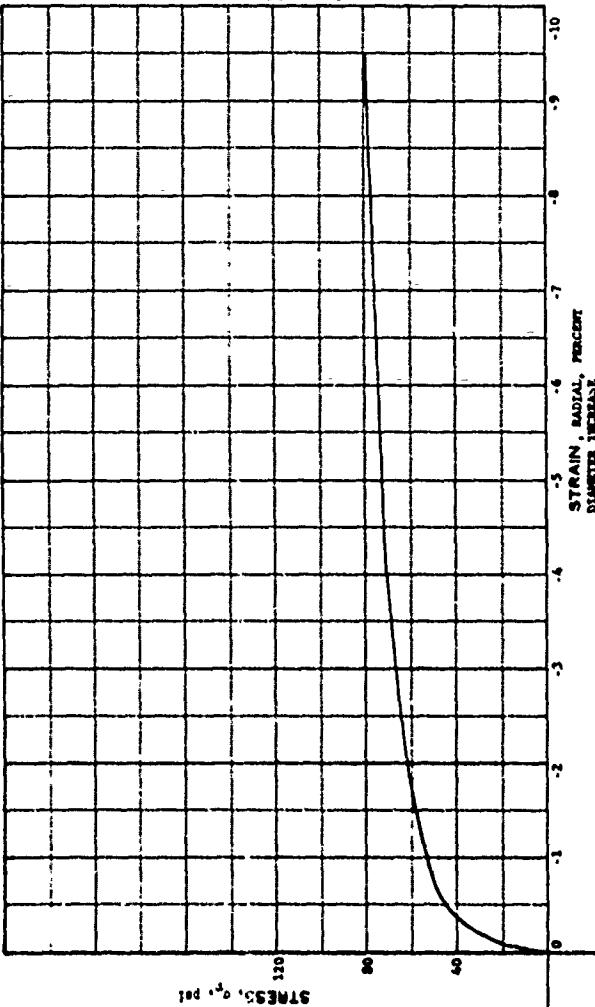
WATER CONTENT	W	16.59 %
VOID RATIO	e ₀	0.61
SATURATION	S ₀	48.86 %
DRY DENSITY	γ_d	93.29 PCF
WET DENSITY	γ'	106.90 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

?76

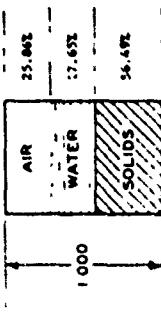


PROJECT	Georgia Institute of Technology B-602 Contract No. DMAE9-67-C-0011		
AREA			
FORING NO.	S-1111-NC	:14	
DEPTH EL		DATE	
LL	36	PL	17
		P1	19
DESCRIPTION	Wetting Fill Clay Constant Stress Ratio, 0.4 Initial Pressure, 3200 psi		

VOLUME METRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	11.37 %
VOID RATIO	e ₀	0.77
SATURATION	S ₀	40.37 %
DRY DENSITY	D _d	95.18 PCF
WET DENSITY	D _w	106.19 PCF
SPECIFIC GRAVITY	G _s	2.70
DIAMETER	D _o	3.48 CM
SPECIMEN HEIGHT	H _o	7.63 CM

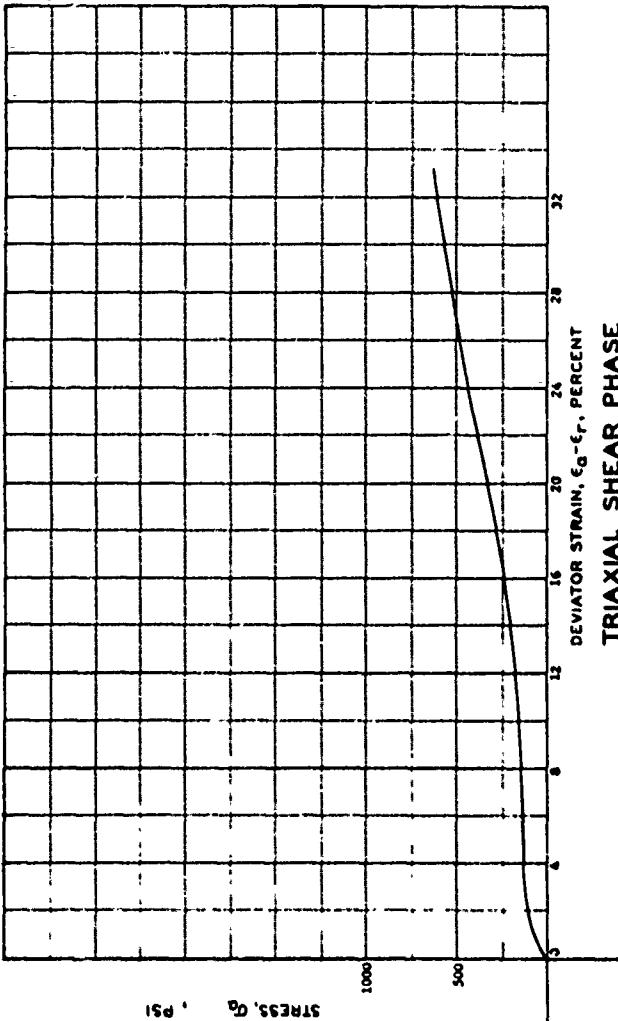
STRESS, G_a, PSI



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

77

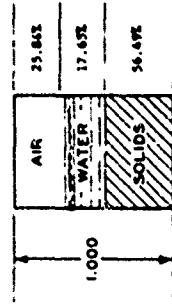


PROJECT	Georgia Institute of Technology B-602		
Contract No. DMAE92-0-50051			
AREA	SAMPLE NO.	DATE	
BORING NO.			
DEPTH E.L.			
LL	36	PL 17	PI 19

DESCRIPTION Watchdog Hill, Clay
Constant Stress Ratio, 0.6
Initial Pressure, 0 psi

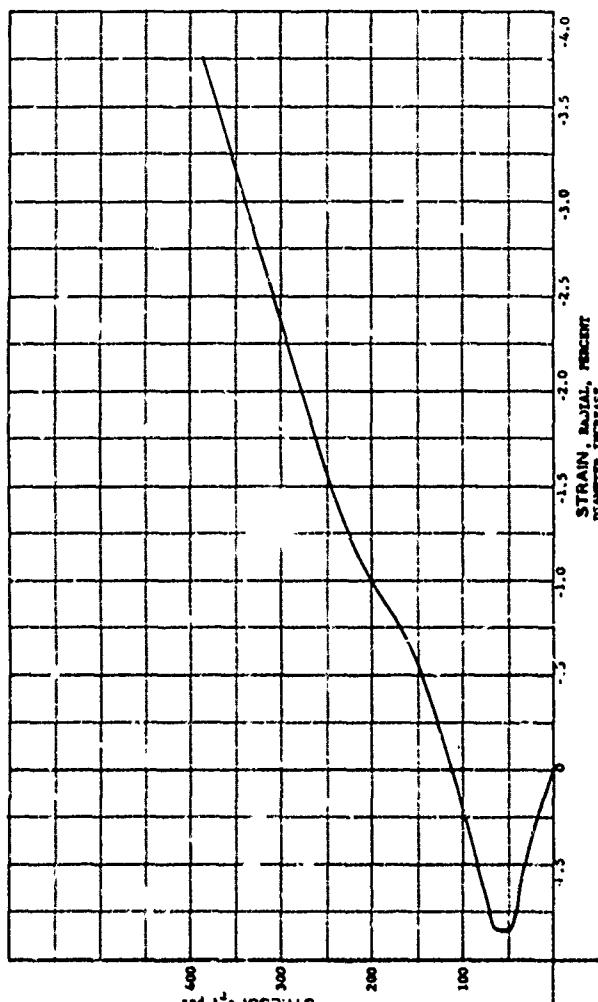
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	w	11.57 %
VOID RATIO	e_0	0.77
SATURATION	S_s	40.37 %
DRY DENSITY	γ_d	95.18 PCF
WET DENSITY	γ_w	106.19 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.48 CM
SPECIMEN HEIGHT	H_0	7.63 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI



HYDROSTATIC PRESSURE, P, PSI

278

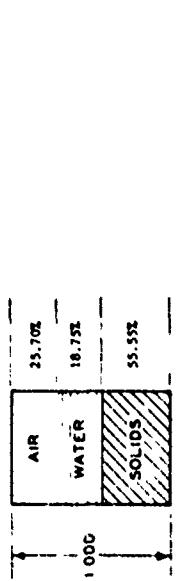
PROJECT <u>Georgia Institute of Technology 3-402</u>	
Contract No. DACA9-67-C-0031	
AREA	
BORING NO.	SAMPLE NO. 248
DEPTH	DATE
EL.	
LL	
PL	
P1	19

DESCRIPTION McElroy Hill Clay

Constant Stress Ratio, 0.6

Initial Pressure, 0 psi

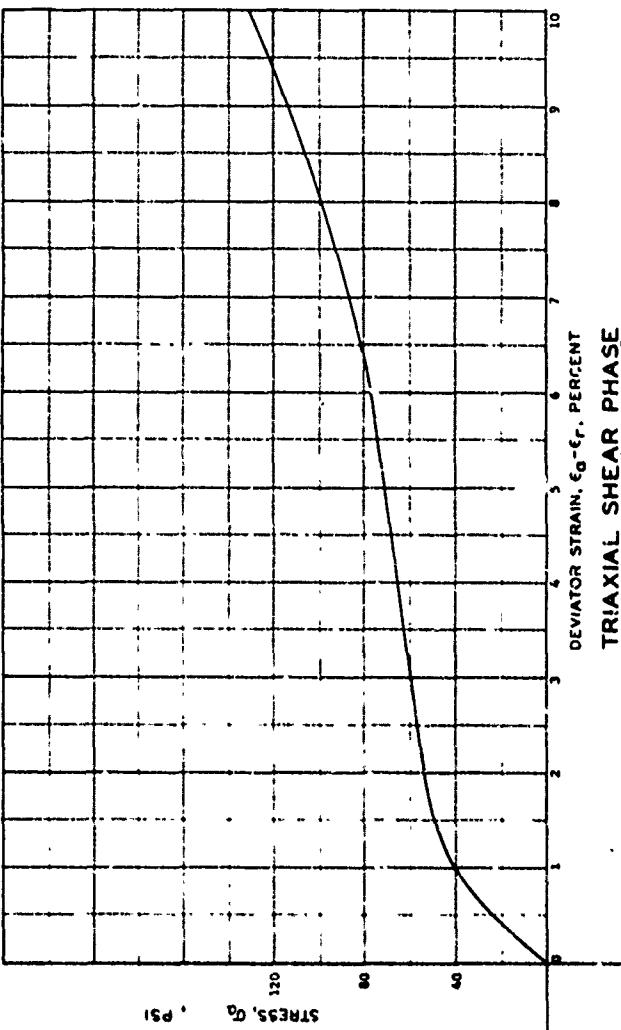
WATER CONTENT	W	12.50 %
VOID RATIO	e_0	0.80
SATURATION	S_o	42.18 %
DRY DENSITY	γ_d	93.59pcf
WET DENSITY	γ	105.29pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.62 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

279

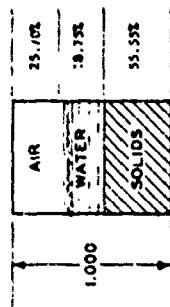


TRIAXIAL SHEAR PHASE

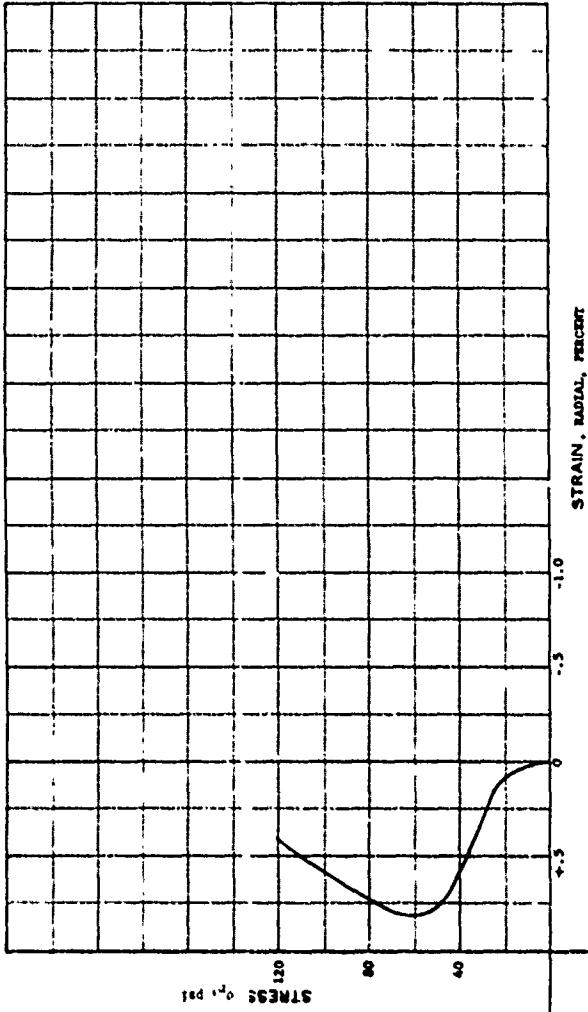
PROJECT	Georgia Institute of Technology #602		
	Contract No. DMA32-67-C-0051		
AREA			
BORENG NO.	SAMPLE NO.	266	
DEPTH	DATE		
EL	LL	PL	P1
	36	17	19
DESCRIPTION			
Hatching Hill Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 0.15			

VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	w	12.50 %
VOID RATIO	e_0	0.60
SATURATION	S_o	42.18 %
DRY DENSITY	γ_d	93.35 PCF
WET DENSITY	γ	105.39 PCF
SPECIFIC GRAVITY	G_o	2.70
SPECIMEN DIAMETER	D_o	3.69 CM
SPECIMEN HEIGHT	H_o	7.62 CM



HYDROSTATIC COMPRESSION PHASE



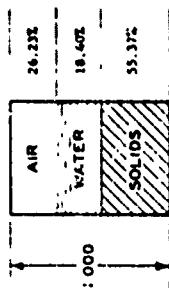
HYDROSTATIC PRESSURE, P , PSI

280

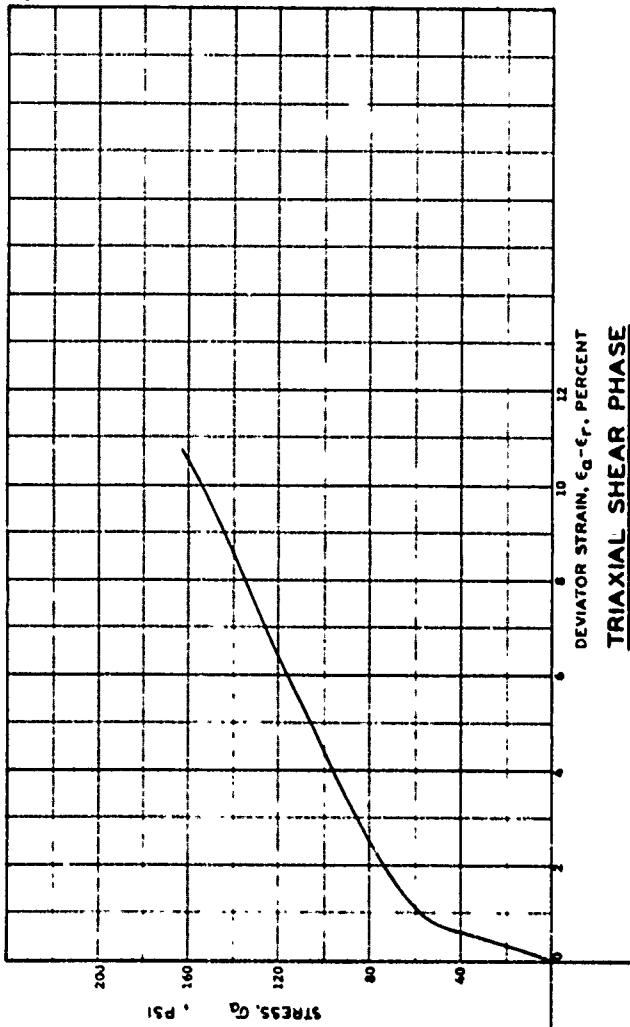
PROJECT	Georgia Institute of Technology, B-602		
Contract No. DACA39-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 216		
DEPTH	DATE		
EL	LL	PL	P1
36	17		19
DESCRIPTION <u>Wetting Mill Clay</u>			
Consistency <u>Stiff</u>			
Compressive Strength Ratio, 0.6			
Initial Pressure, 0 psi			

VOLUMETRIC STRAIN, AV, %, PERCENT

WATER CONTENT	W	12.31 %
VOID RATIO	e ₀	0.81
SATURATION	S _o	41.23 %
DRY DENSITY	γ_d	93.29 PCF
WET DENSITY	γ_w	104.78 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D _o	3.50 CM
SPECIMEN HEIGHT	H _o	7.69 CM



HYDROSTATIC COMPRESSION PHASE

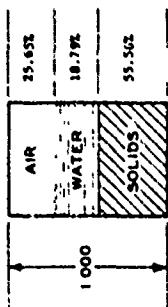


HYDROSTATIC PRESSURE, P, PSI

PROJECT	Georgia Institute of Technology B-402	
Contract No. DACA19-67-C-0051		
AREA		
BORING NO.	SAMPLE NO. 267	
DEPTH E.L.	DATE	
LL	36	PL 17 P1 19
DESCRIPTION Weathering Marl Clay.		
Constant Stress Ratio, 0.6		
Initial Pressure, 0 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

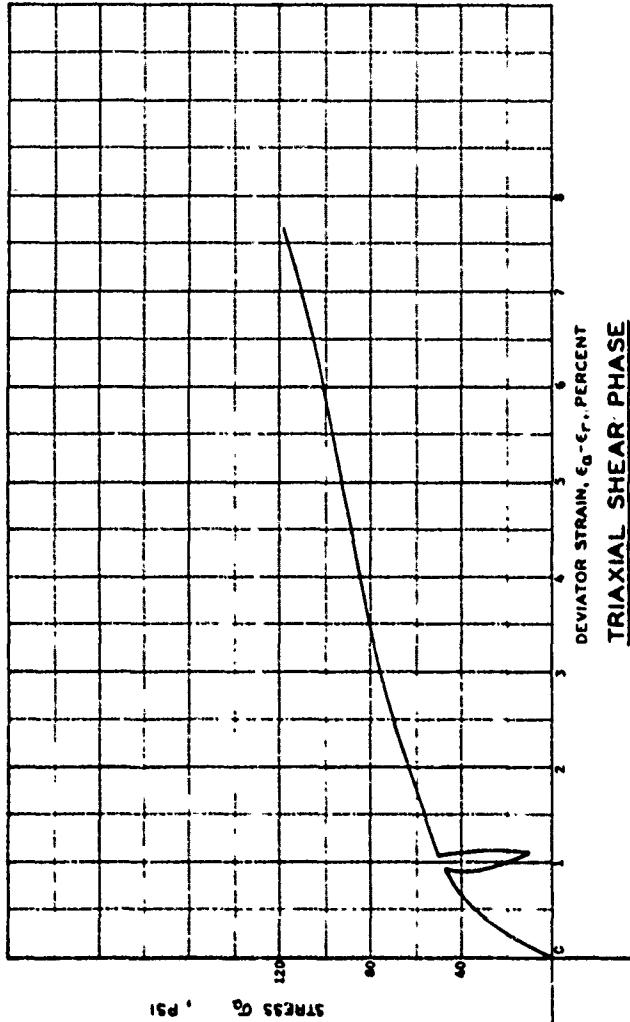
WATER CONTENT	W	12.52 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	42.26 %
DRY DENSITY	γ_d	93.60 PCF
WET DENSITY	γ_w	105.32 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

282



TRIAXIAL SHEAR PHASE

PROJECT	Geotechnical Institute of Technology, B-602.	
	Contract No. DMCA39-67-C-0051	
AREA		
BORING NO.	SAMPLE NO. 344	
DEPTH	DATE	
EL.	PL	P1
LL	16	17
		19

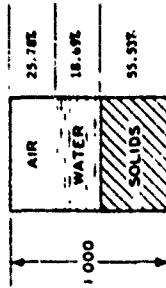
DESCRIPTION Matchabill Clay

Constant Stress Ratio, 0.6

Initial Pressure, 0 psi; Cycle Shear @ 3%

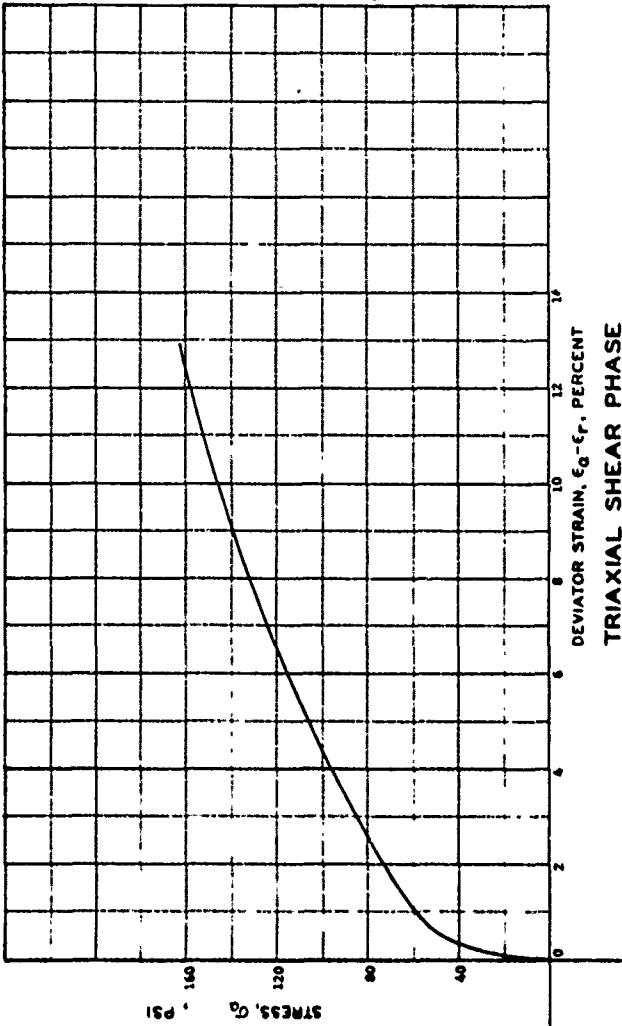
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.47	%
VOID RATIO	e ₀	0.80	
SATURATION	S ₀	42.06	%
DRY DENSITY	D _d	91.57	pcf
WET DENSITY	D _w	105.23	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



HYDROSTATIC COMPRESSION PHASE

STRESS, Q, - PSI



TRIAXIAL SHEAR PHASE

HYDROSTATIC PRESSURE, P, PSI

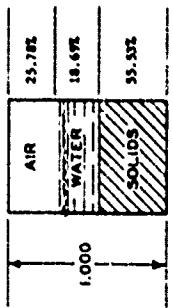
203

PROJECT	Georgia Institute of Technology 8-602		
Contract No. DACA39-67-C-0051			
AREA	SAMPLE NO. 348		
BORING NO.	DATE	PL	P1
DEPTH EL.		17	19
LL			

DESCRIPTION: Waching Hill Clay
Constant Strain Ratio, 0.6
Initial Pressure, 0 psi

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

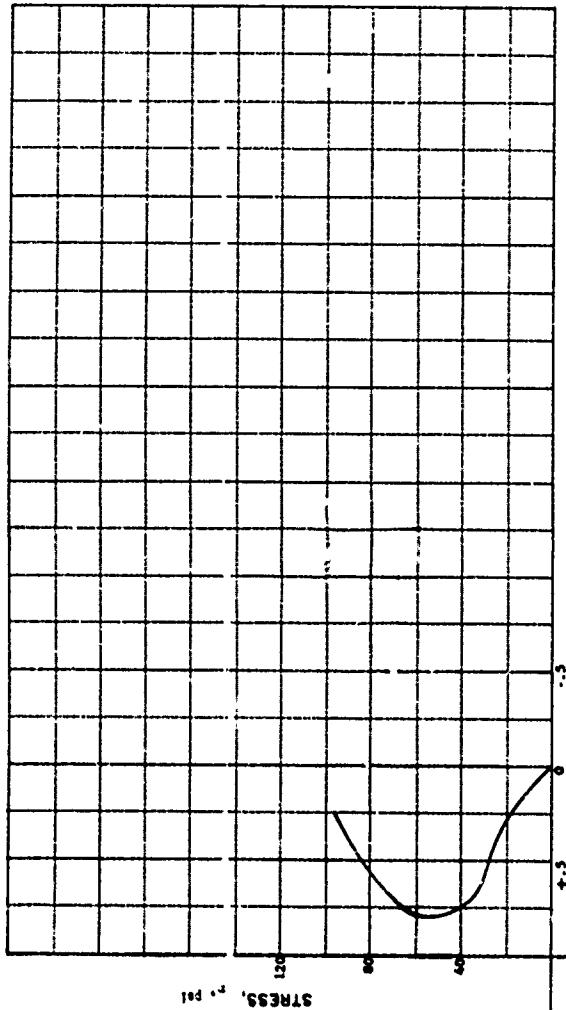
WATER CONTENT	W	12.4%
VOID RATIO	e ₀	0.80
SATURATION	S _o	42.06%
DRY DENSITY	D _d	95.57 PCF
WET DENSITY	D _w	105.23 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
TEST HEIGHT	H ₀	1.62 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

284

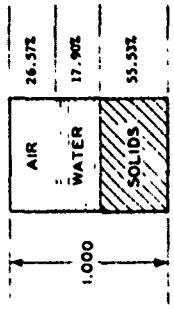


STRAIN, RADIAL, PERCENT
DIAMETER INCREASE

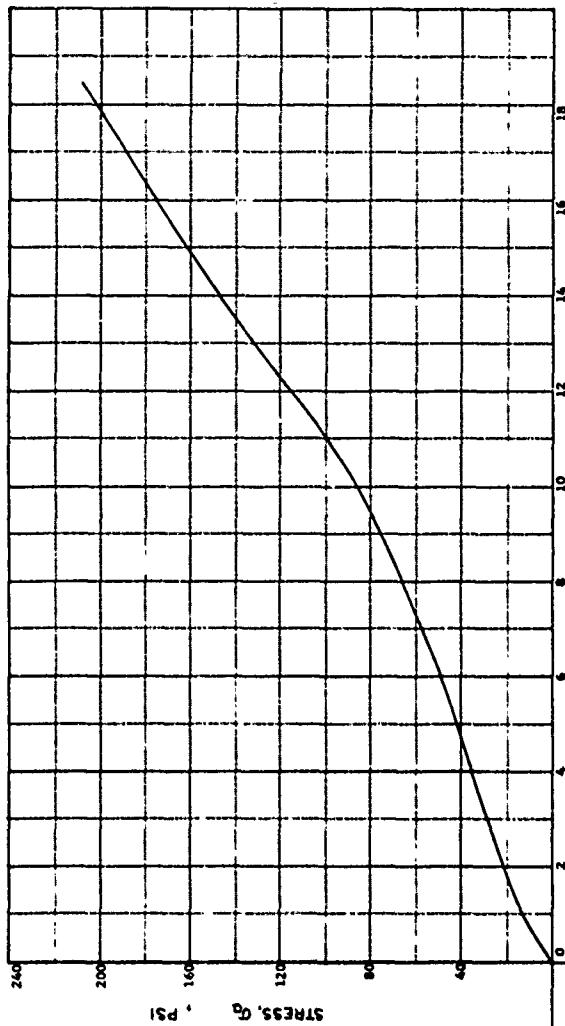
PROJECT	Georgia Institute of Technology B-602	
Contract No. DACA39-67-C-0051		
AREA		
BORING NO.	SAMPLE NO. 348	
DEPTH	DATE	
LL	36	PL
DESCRIPTION Watchung Hill Clay		
Constant Stress Ratio, 0.6		
Initial Pressure, 0 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.93	%
VOID RATIO	e_0	0.80	
SATURATION	S_0	40.24	%
DRY DENSITY	γ_d	93.56	PCF
WET DENSITY	γ	104.72	PCF
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.49	CM
SPECIMEN HEIGHT	H_o	7.62	CM



HYDROSTATIC COMPRESSION PHASE



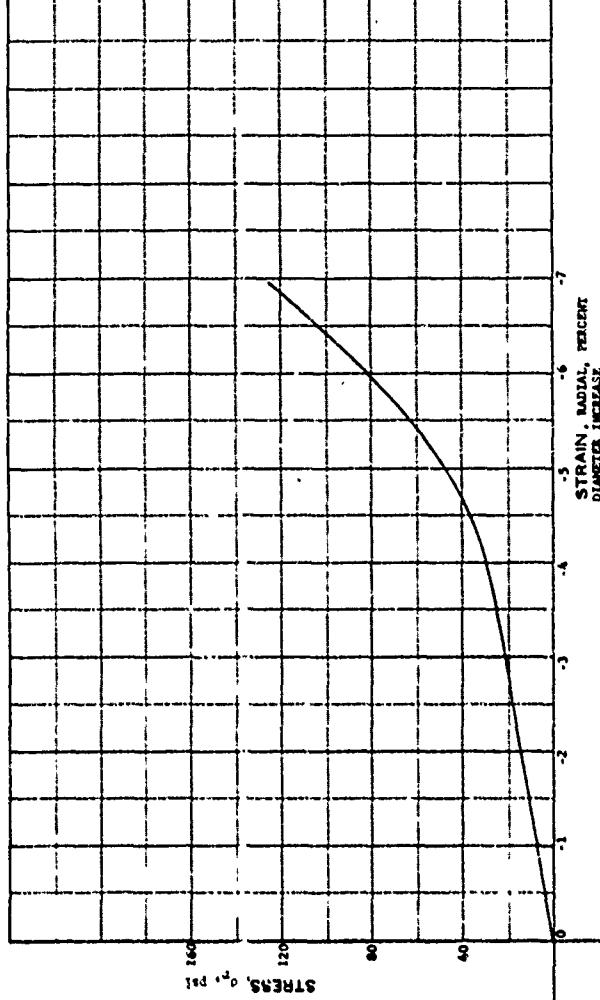
HYDROSTATIC PRESSURE, p , PSI

285

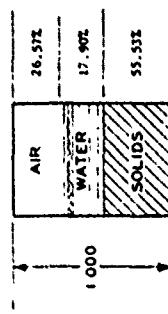
TRIAXIAL SHEAR PHASE

PROJECT	Geotechnical Institute of Technology B-602		
	Contract No. DMA39-67-C-0051		
AREA			
BORING NO.		SAMPLE NO.	294
DEPTH		DATE	
EL			
LL	36	PL	17
		P1	19
DESCRIPTION	Watching Hill Clay		
	Constant Stress Ratio, 0.6		
	Initial Pressure, 100 ksf		

VOLUMETRIC STRAIN, $\Delta V/V_L$, PERCENT



WATER CONTENT	w	11.9%
VOID RATIO	e ₀	0.40
SATURATION	s ₀	40.2%
DRY DENSITY	γ _d	93.56pcf
WET DENSITY	γ _w	104.12pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 cm
SPECIMEN HEIGHT	H ₀	7.67 cm



HYDROSTATIC COMPRESSION PHASE

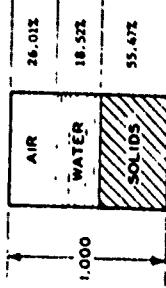
HYDROSTATIC PRESSURE, P, PSI

286

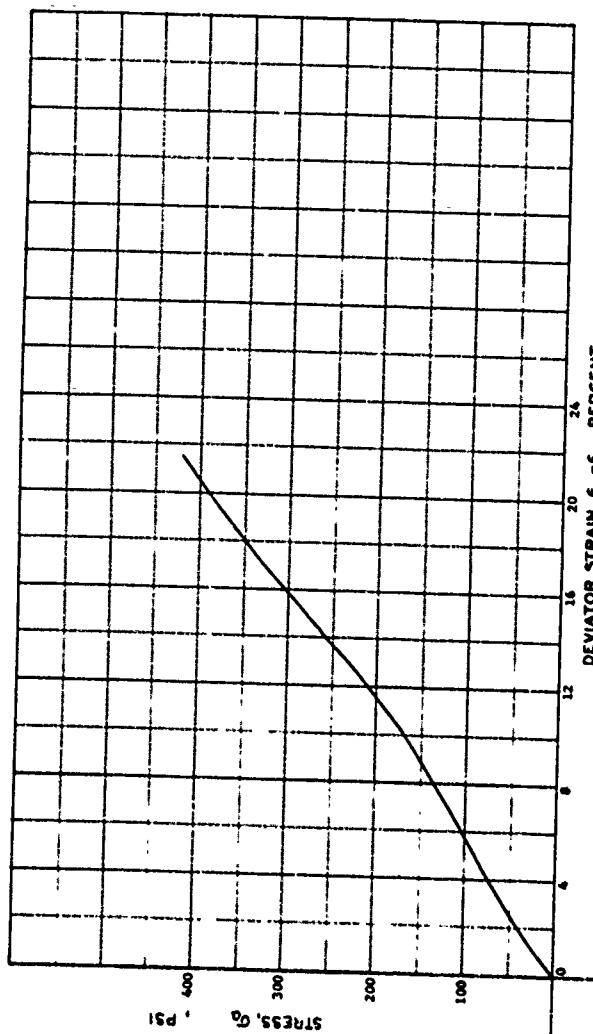
PROJECT	Georgia Institute of Technology, B-192	
Contract No. DMAE94-J-C-0051		
AREA		
BOFFING NO.	SAMPLE NO.	
DEPTH	DATE	
EL.	PL	P1 19
DESCRIPTION Watchung Hill Clay		
Constant Stress Ratio, 0.6		
Initial Pressure, 100 psi		

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.37 %
VOID RATIO	e ₀	0.60
SATURATION	S _o	41.61 %
DRY DENSITY	γ_d	93.45 PCF
WET DENSITY	γ_w	105.01 PCF
SPECIFIC GRAVITY	G _s	2.76
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

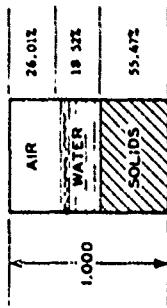
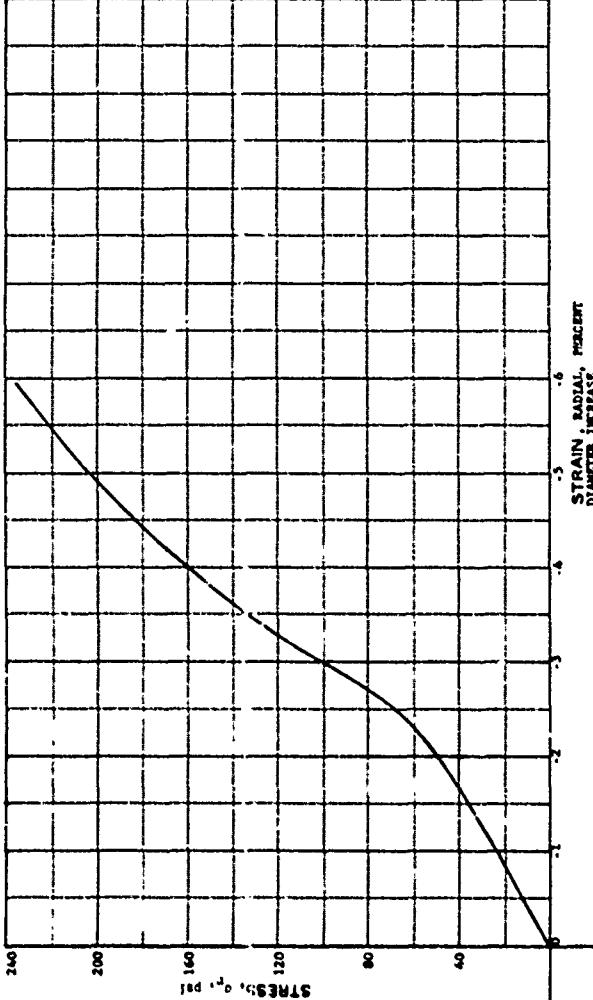
287

TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology B-602		
Contract No. DMA3963-C-0051			
AREA			
BORING NO.	PL	SAMPLE NO.	304
DEPTH		DATE	
EL.			
L.L.	36	P1	19
DESCRIPTION		Watchorn Hill Clay	
Constant Stress Ratio, 0.6			
Initial Pressure, 100 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.51 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	41.61 %
DRY DENSITY	γ_d	93.45pcf
WET DENSITY	γ_w	105.01pcf
SPECIFIC GRAVITY	G _s	2.76
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE

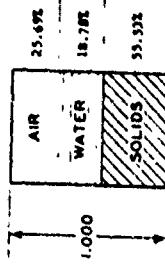
HYDROSTATIC PRESSURE, π , psi

288

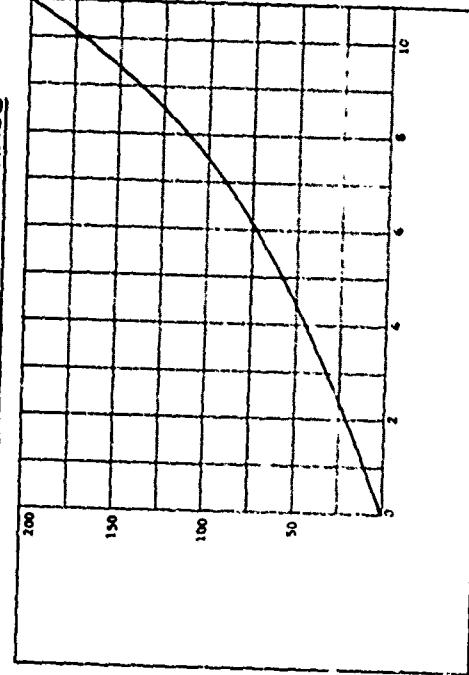
PROJECT	Georgia Institute of Technology, B-602		
Contract No.	DACA39-67-C-0051		
AREA			
BORENG NO.	SAMPLE NO. 205		
DEPTH	DATE		
EL.	PL	17	PI 19
DESCRIPTION Watchung Hill Clay			
Constant Stress Ratio, 2.6			
Initial Pressure, 100 psi			

VOLUMETRIC STRAIN, $\Delta V/V$, PERCENT

WATER CONTENT	W	12.33 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	42.76 %
DRY DENSITY	γ_d	93.54pcf
WET DENSITY	γ	105.38pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER D ₀	D ₀	3.49 CM
SPECIMEN HEIGHT H ₀	H ₀	7.62 CM
SPECIMEN HEIGHT		

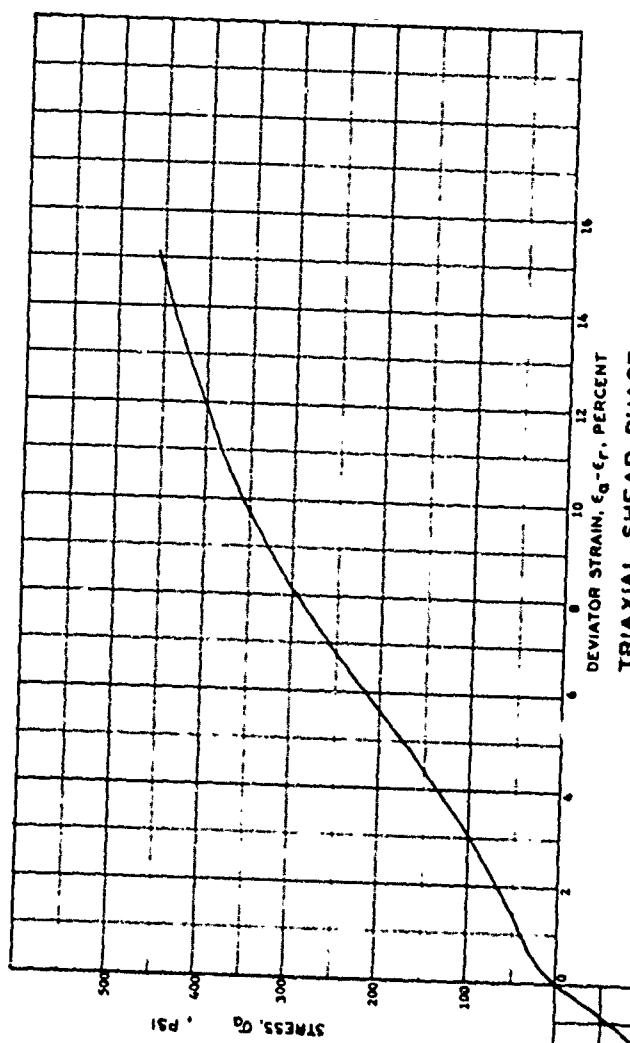


HYDROSTATIC COMPRESSION PHASE



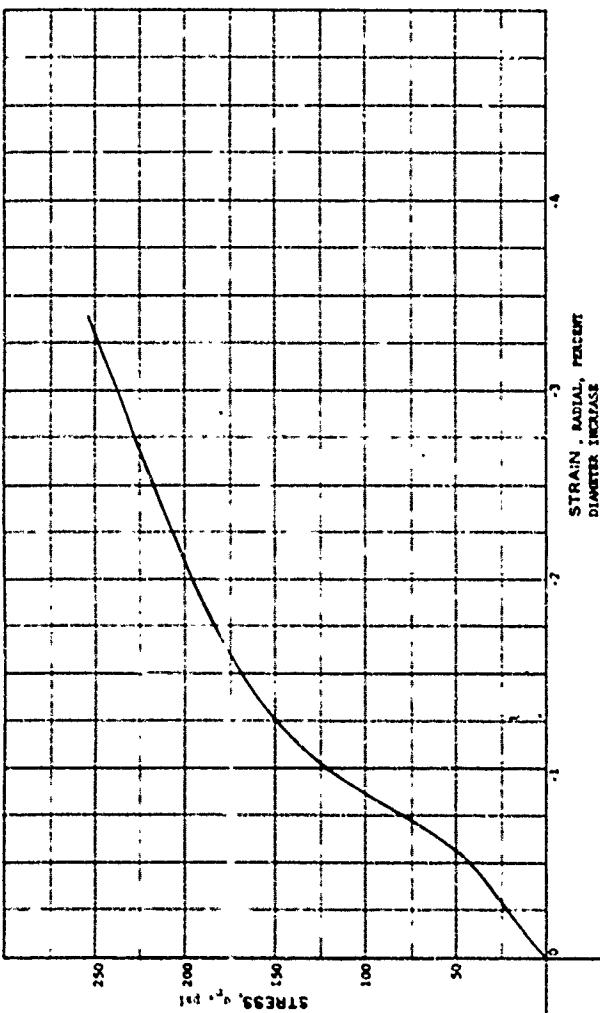
HYDOSTATIC PRESSURE, P, PSI

289



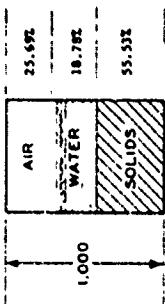
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology 3-602		
Contract No.	DACA9-67-C-0051		
AKA			
BORING NO.	SAMPLE NO. 200		
DEPTH	DATE		
EL.	PL	17	PL
LL.	36		19
DESCRIPTION Weathering Hill Clay			
Constant Stress Ratio, 0.6			
Selected Pressure, 200 psi			



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	12.53	%
VOID RATIO	e_0	0.80	
SATURATION	S_o	42.26	%
DRY DENSITY	γ_d	91.34	pcf
WET DENSITY	γ	105.28	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.49	cm
SPECIMEN HEIGHT	H_0	7.62	cm



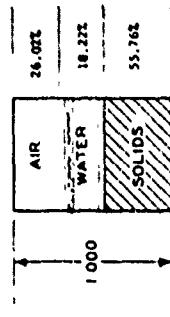
HYDROSTATIC PRESSURE, P, PSI

290

PROJECT	Georgia Institute of Technology B-602	
Contract No. DACA39-73-C-0001		
AREA		
BORING NO.	SAMPLE NO. 100	
DEPTH	DATE	
EL.		
LL	PL	P1
36	17	19

DESCRIPTION Watchung Hill Clay
Consolidation Stress, 24519.0, 0.6.
Initial Pressure, 200 psi

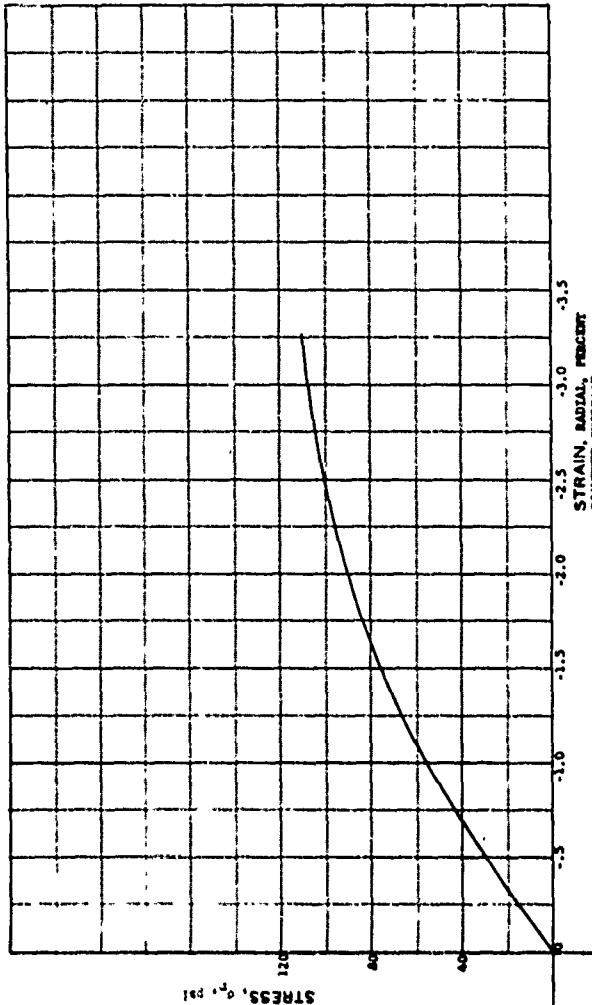
WATER CONTENT	W	12.11 %
VOID RATIO	e ₀	0.79
SATURATION	s ₀	41.19 %
DRY DENSITY	γ_d	93.3% P.C.
WET DENSITY	γ_w	105.31 P.C.F.
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.61 CM



HYDROSTATIC COMPRESSION PHASE

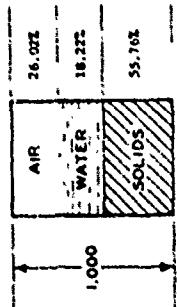
HYDROSTATIC PRESSURE, P, PSI

291

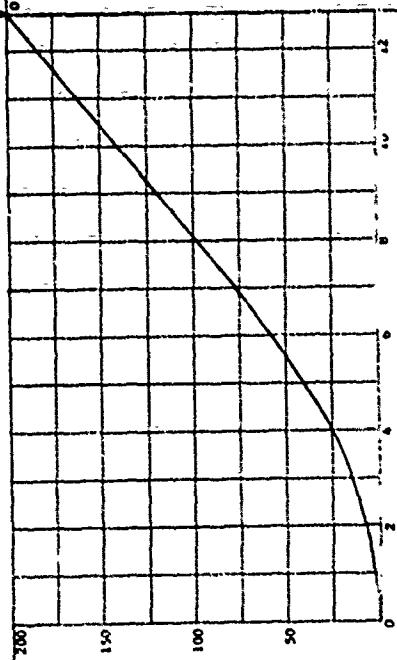


PROJECT	Georgia Institute of Technology, B-102		
Contract No. DACA19-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 325		
DEPTH	DATE		
EL	36	PL	17
LL		P ₁	19
DESCRIPTION Weathering Mill Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 200 psi			

WATER CONTENT	W	12.11 %
VOID RATIO	e_0	0.79
SATURATION	S_g	41.19 %
DRY DENSITY	γ_d	93.56pcf
WET DENSITY	γ_w	105.31pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.01 cm



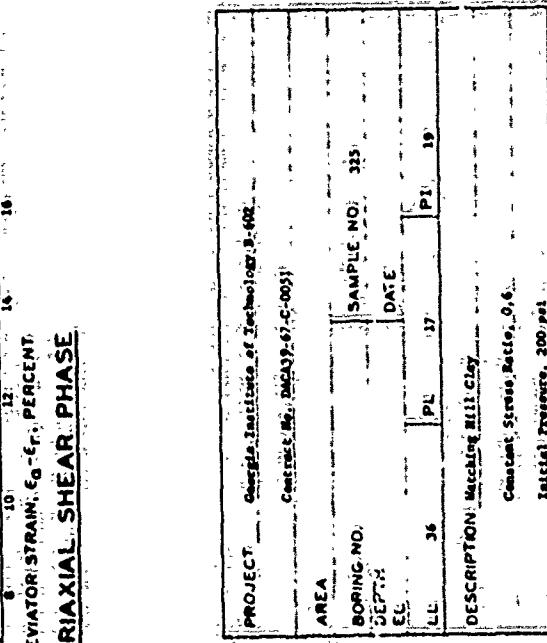
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, p, psi

292

TRIAXIAL SHEAR PHASE



VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT: Geologic Initiatives of Zephaniah S. Cole
Contract No. DCA3267-4-0051

AREA

BORING NO.

DEPTH

DATE

PL

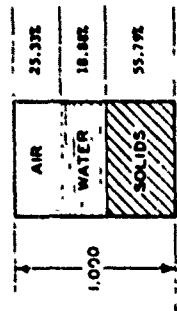
PT

DESCRIPTION: Macaque Hill clay

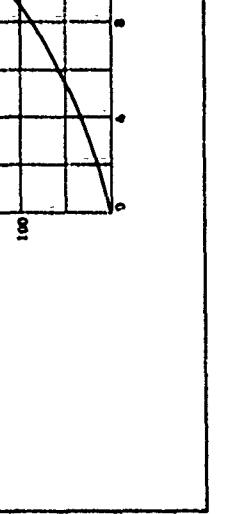
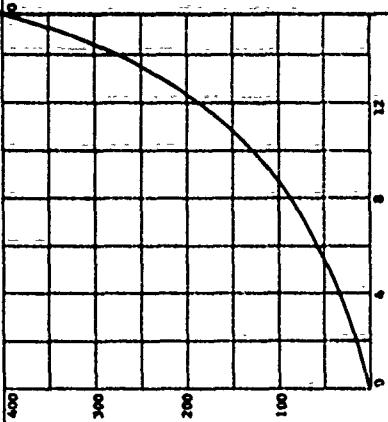
Content: Saturated, 0.6

Total Pressure, 200 psi

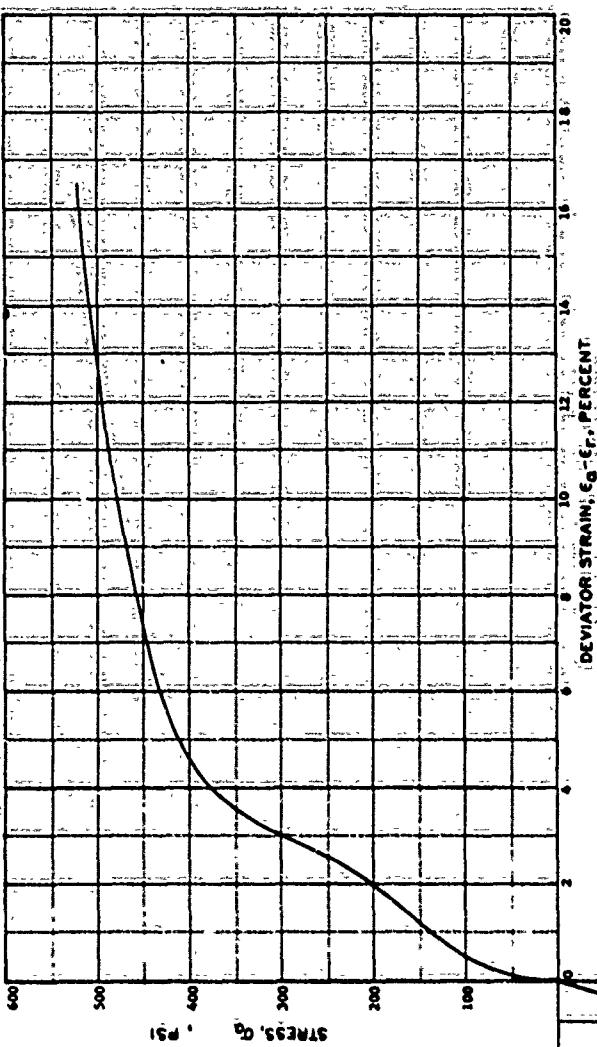
WATER CONTENT	W	12.5%
VOID RATIO	e ₀	0.79
SATURATION	S _o	42.70%
DRY DENSITY	γ _d	96.00 PCF
WET DENSITY	γ _w	103.78 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE



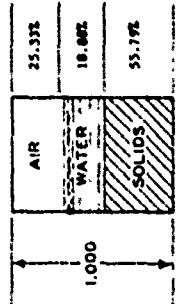
HYDROSTATIC PRESSURE, P_₀, PSI



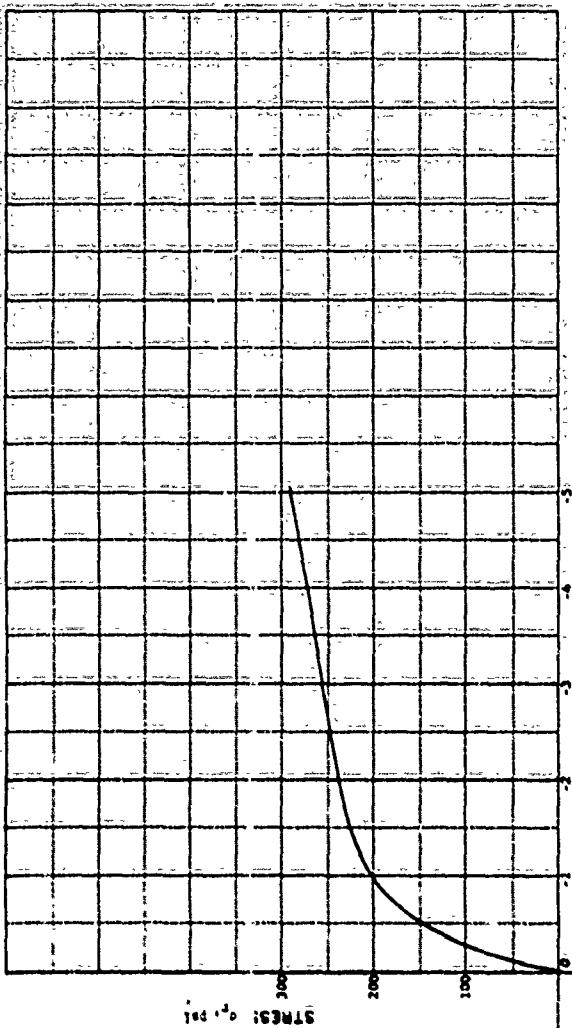
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology 3-602		
Contract No. NACA19-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 120		
DEPTH EL.	PL.	PI.	19
LL	36		
DESCRIPTION: Wetted Bulk Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 600 psi			

WATER CONTENT	W	12.53 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	42.70 %
DRY DENSITY	γ _d	94.00 PCF
WET DENSITY	γ _w	105.78 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 CM
INITIAL HEIGHT	H ₀	7.41 CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, psi

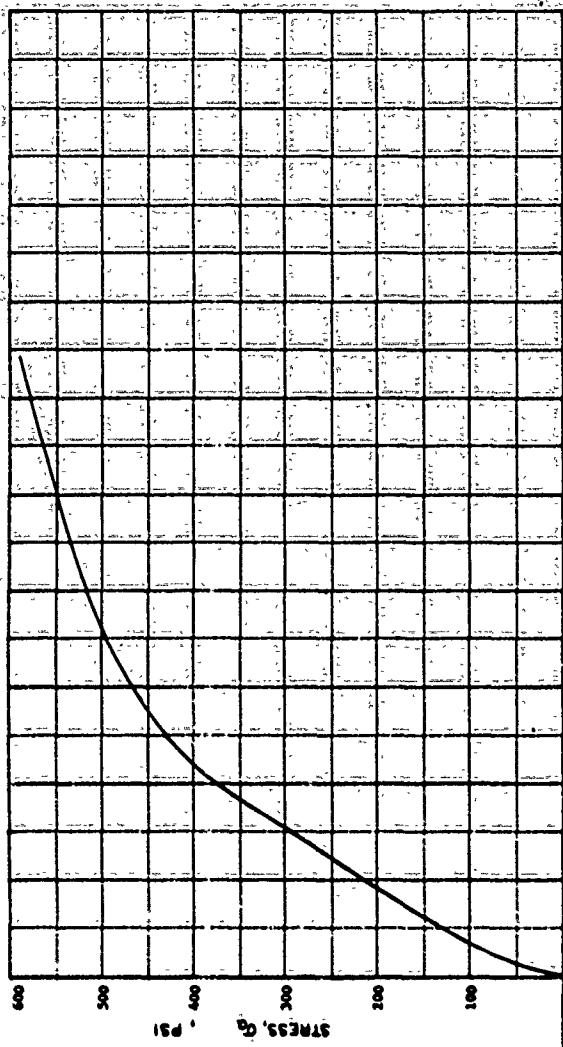
294

PROJECT:	Georgia Institute of Technology B-6001		
Contract No.: 36159-67-C-0051			
AREA:	SAMPLE NO.:	DATE:	
BORING NO.			
DEPTH EL.			
LL	36	PL	17
		Pt.	19
DESCRIPTION	Wettingill Hill Clay		
Consolidation Stress Ratio: 0.6			
Initial Pressure: 400 psi			

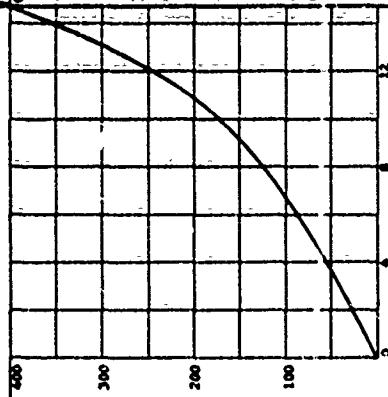
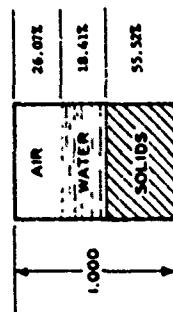
VOLUME STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.28 %
VOID RATIO	e ₀	0.80
SATURATION	S _o	41.39 %
DRY DENSITY	γ _d	91.54pcf
WET DENSITY	γ _w	105.02pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.62 cm

STRESS, σ, psi



HYDROSTATIC COMPRESSION PHASE



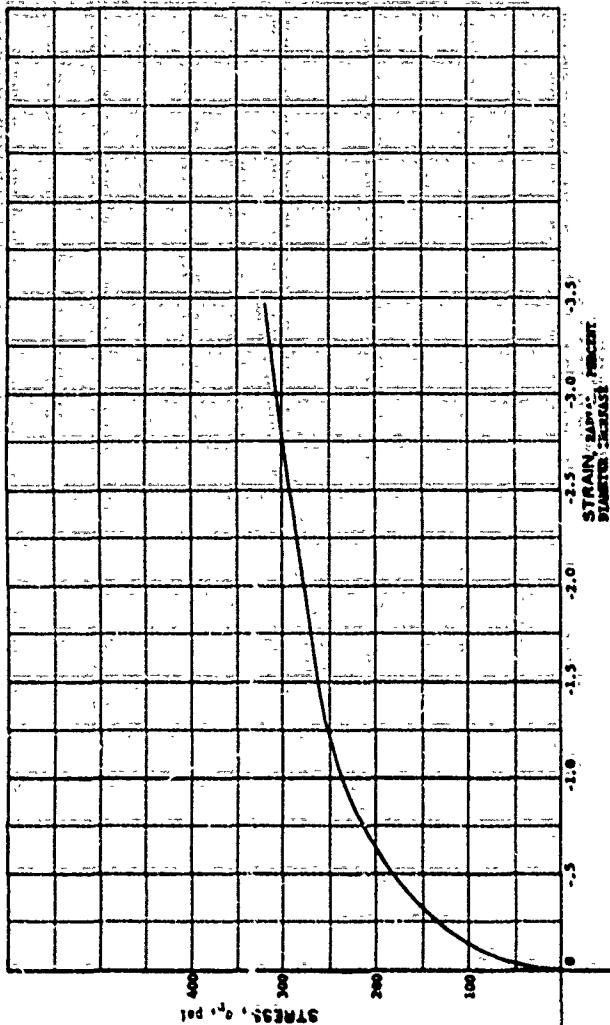
HYDROSTATIC PRESSURE, P , psi

TRIAXIAL SHEAR PHASE

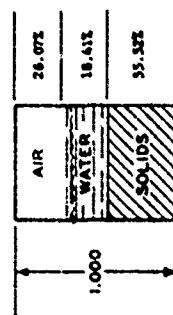
PROJECT	Georgia Institute of Technology 3-62		
Contract No.	MCG-67-C-0051		
AREA			
BORING NO.	SAMPLE NO.: 338		
DEPTH EL	26	PL	DATE 17/1/59
DESCRIPTION	Bentonite Shallow		
Cement: Stress Ratio, 0.6			
Total Pressure, 400 psi			

VOLUMETRIC STRAIN, δ_V/V_0 , PERCENT

WATER CONTENT	W	12.28 %
VOID RATIO	e_0	0.60
SATURATION	S_g	41.39 %
DRY DENSITY	γ_d	91.54pcf
WET DENSITY	γ	101.62pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.65 cm
SPECIMEN HEIGHT	H_o	1.52 cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

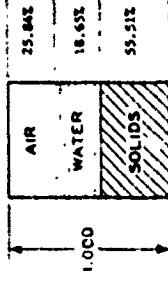
296

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Geotechnical Institute of Technology B-602		
Contract No.	BACI967-C-0031		
AREA			
BORING NO.	SAMPLE NO. 338		
DEPTH EL.	PL	17 ₁	PT. 19
LL.	36		
DESCRIPTION: Watchdog Hill Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 400 psi			

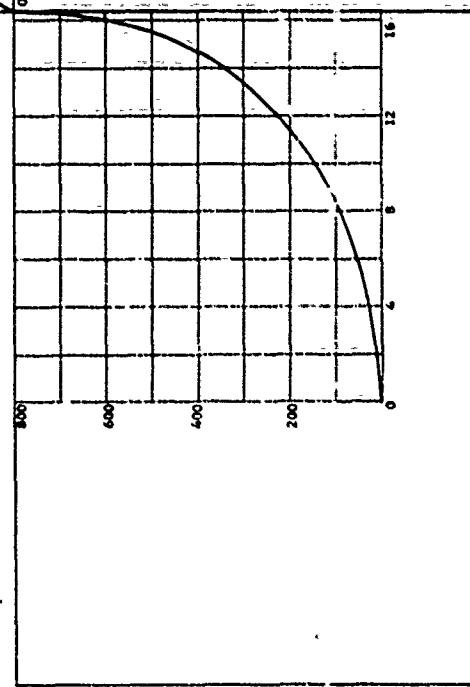
WATER CONTENT	W	12.44 %
VOID RATIO	e ₀	0.80
SATURATION	S _o	41.91 %
DRY DENSITY	γ_d	93.51pcf
WET DENSITY	γ	105.15pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm

STRESS, QI , PSI



1000
2000

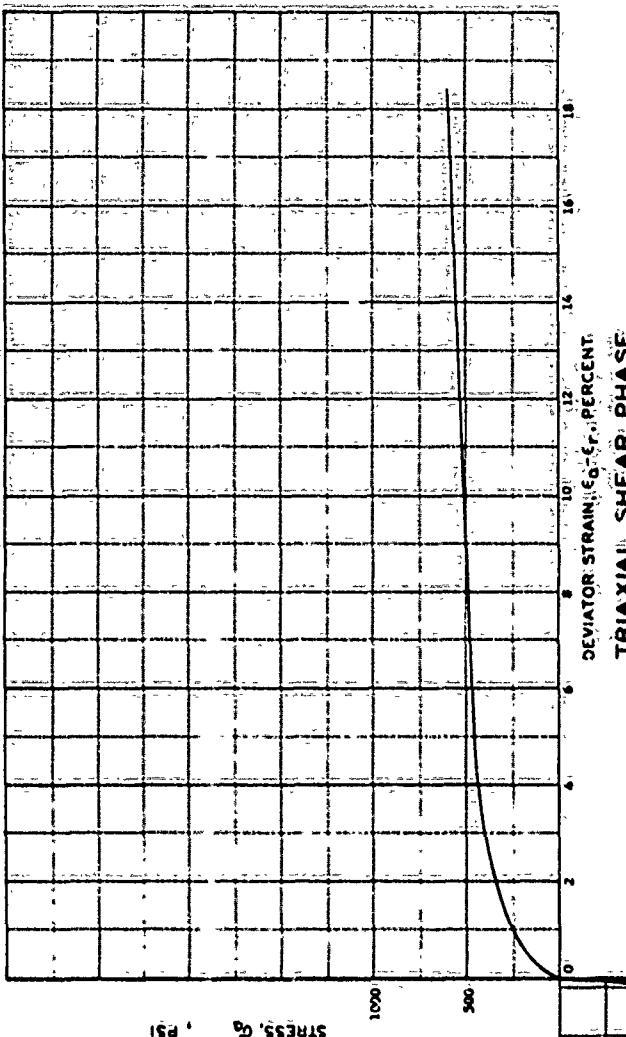
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

297

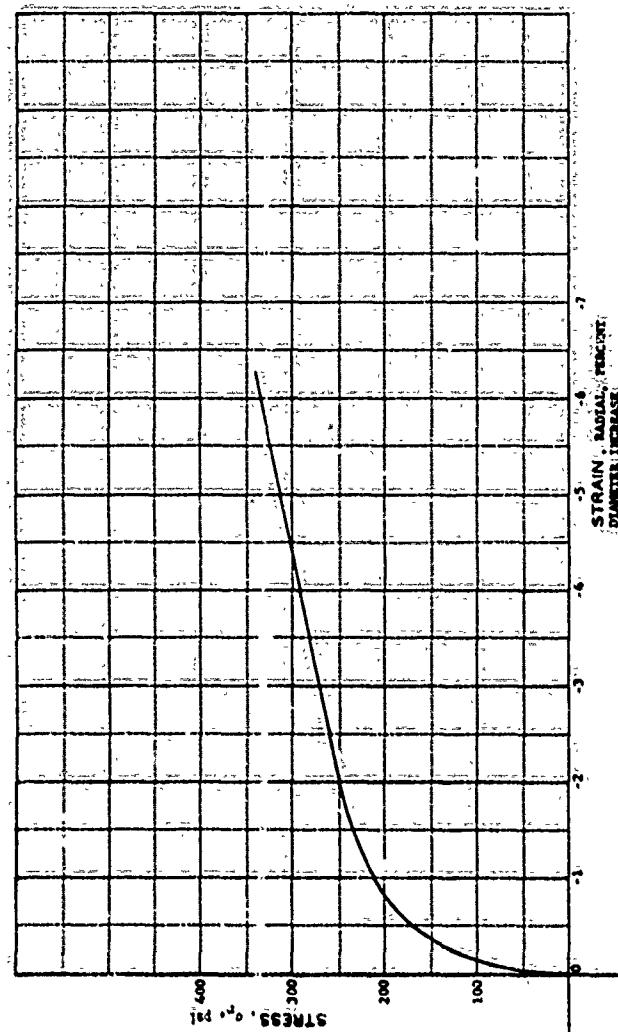
DEVIATOR STRAIN, ϵ_d , PERCENT TRIAXIAL SHEAR PHASE



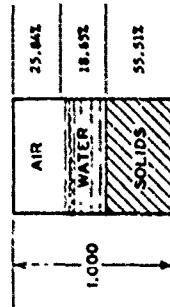
PROJECT	Georgia Institute of Technology
Contract No.	DMR2267-G-0031
AREA	
BORING NO.	SAMPLE NO. 3301
DEPTH	DATE
EL.	
LL.	PL 17 PI 19
DESCRIPTION: Washed sand/clay	
Confined stress ratio, 0.6	
Initial stress, 300 psi	

VOLUMETRIC STRAIN $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.44 %
VOID RATIO	e_0	0.60
SATURATION	S	41.91 %
DRY DENSITY	γ_d	97.51pcf
WET DENSITY	γ	105.15pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.69 cm
SPECIMEN HEIGHT	H_o	7.62 cm



HYDROSTATIC COMPRESSION PHASE



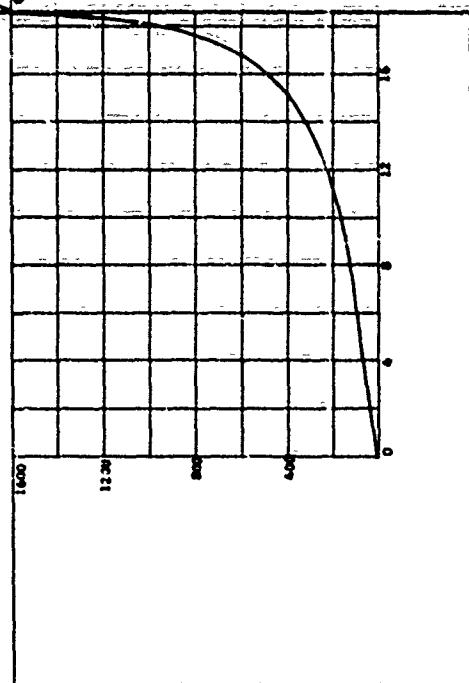
HYDROSTATIC PRESSURE, P, PSI

PROJECT		Georgia Institute of Technology		S-102	
		Contract No. INDAS3-67-C-0031			
AREA					
BORING NO.	SAMPLE NO. 339		DATE		
EL	PL	17	PL	19	
LL					
DESCRIPTION: Weathered Mill Creek					
Constant Stress Ratio, 0.6					
Initial Pressure, 800 psi					

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

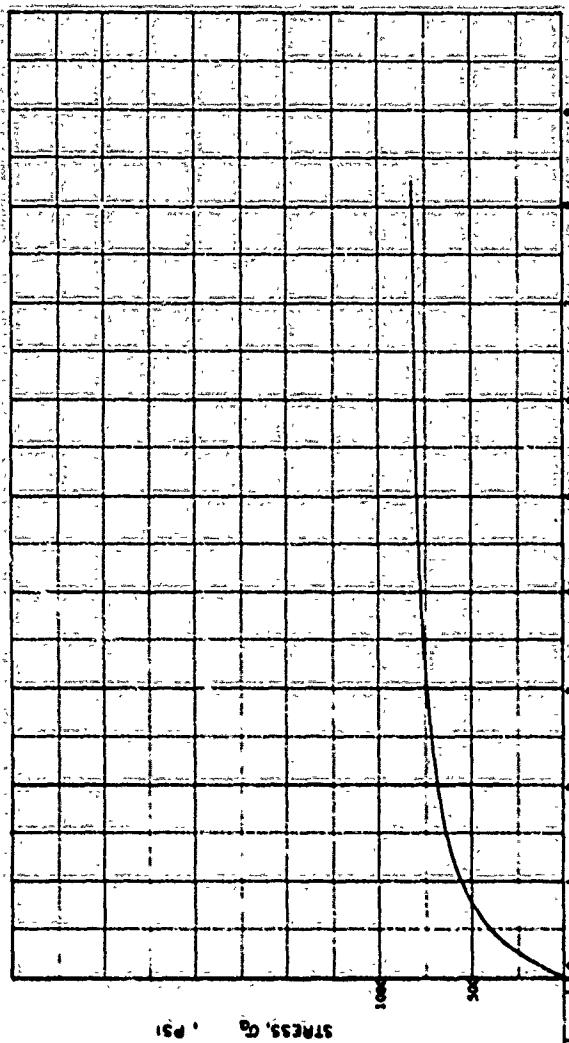
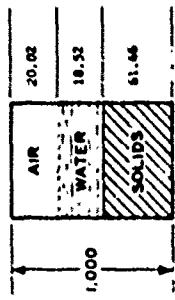
PROJECT	General Institute of Technology 2-62
Contract No.	B-1039-67-C-0051
AREA	
BORING NO.	SAMPLE NO. 1312
DEPTH EL.	DATE
LL. 36	PL. 17 PI. 19
DESCRIPTION	WEAK BENTONITE CLAY
CORED	STRIKE 060°, DIP 05°
INITIAL PRESSURE	1600 psi

**DEVIATOR STRAIN, ϵ_d , PERCENT
TRIAXIAL SHEAR PHASE**

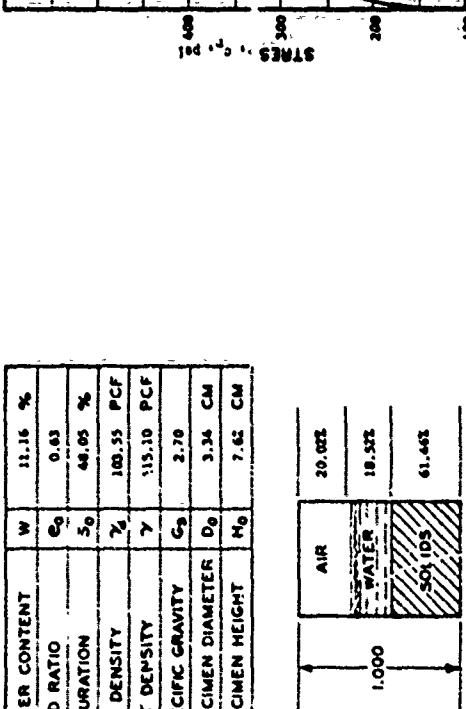


HYDROSTATIC PRESSURE, P , psi

WATER CONTENT	W	11.16 %
VOID RATIO	e_0	0.63
SATURATION	S_o	48.05 %
DRY DENSITY	D_d	103.55pcf
WET DENSITY	γ	115.10 pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.74 cm
SPECIMEN HEIGHT	H_o	7.62 cm



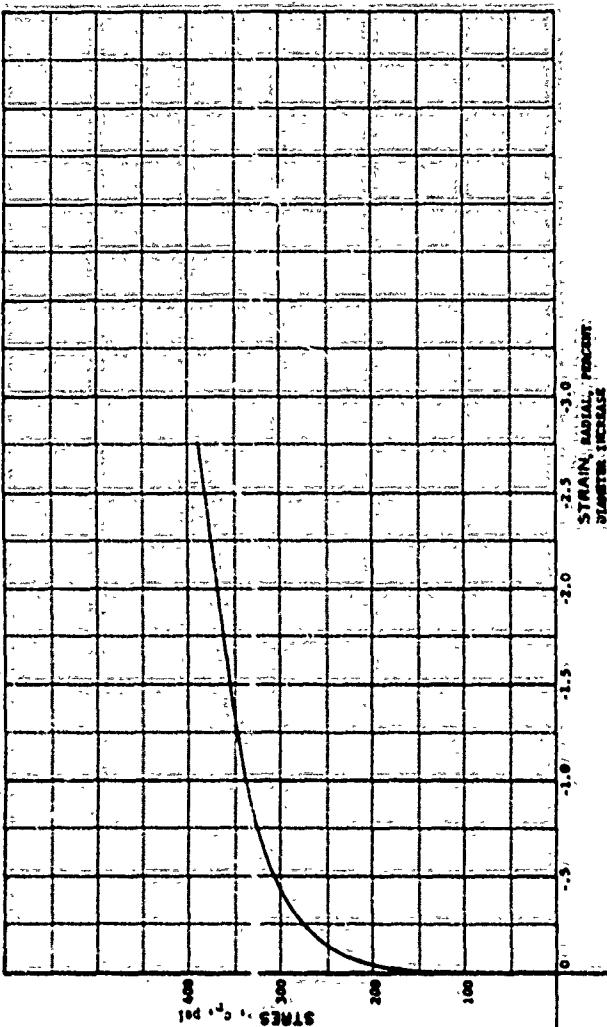
WATER CONTENT	W	11.16 %
VOID RATIO	e_0	0.63
SATURATION	S	44.05 %
DRY DENSITY	γ_d	103.55pcf
WET DENSITY	γ	115.10pcf
SPECIFIC GRAVITY	C_s	2.70
SPECIMEN DIAMETER	D_0	3.34 CM
SPECIMEN HEIGHT	H_0	7.62 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

300



STRAIN, RADIAL, PERCENT
STRAIN, INCHES, INCHES

PROJECT	Georgia Institute of Technology B-302
Contract No.	ME-19-017-C-0001
AREA	
BORING NO.	SAMPLE NO. 312
DEPTH EL	DATE
LL	PL
PI	19

DESCRIPTION: *Loesslike silty clay*

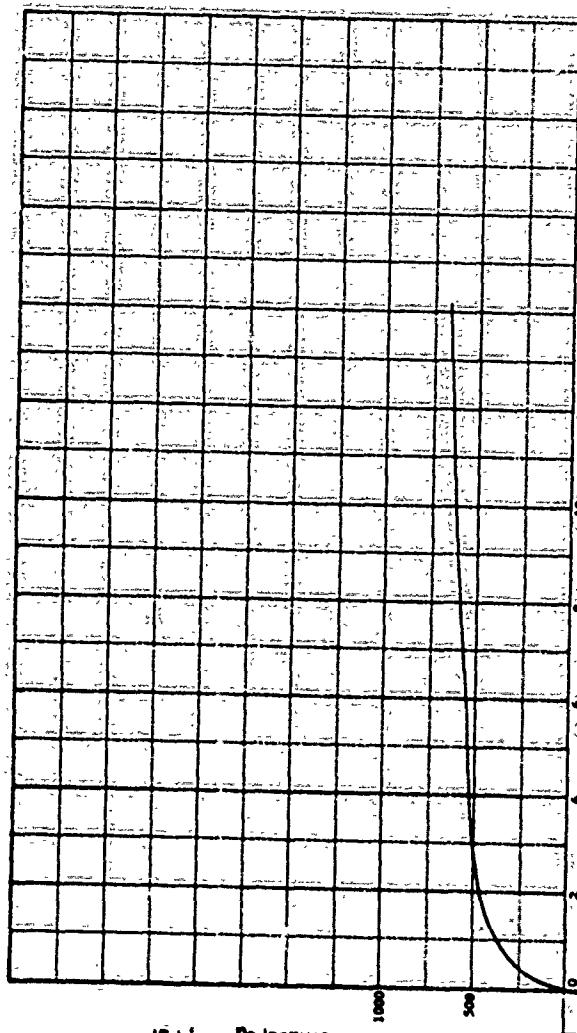
CONSISTENCY: *Very stiff*

CONSISTENT STRENGTH RATIO: 0.6

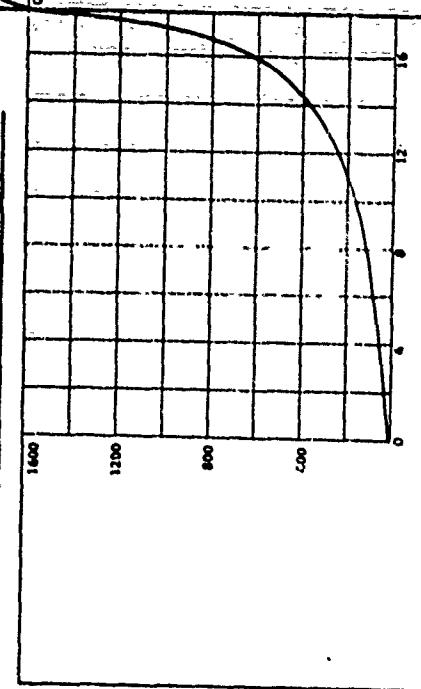
INITIAL PRESSURE: 1000 psi

WATER CONTENT	W	12.71 %
VOID RATIO	e ₀	0.81
SATURATION	s ₀	42.48 %
DRY DENSITY	γ_d	93.19pcf
WET DENSITY	γ_w	105.00 pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.63 cm

STRESS, σ, psi



HYDROSTATIC COMPRESSION PHASE



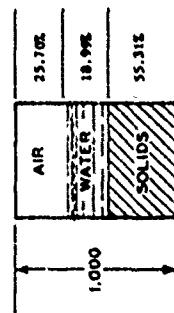
VOLUMETRIC STRAIN, $\Delta V / V_0$, PERCENT

HYDOSTATIC PRESSURE, P, PSI

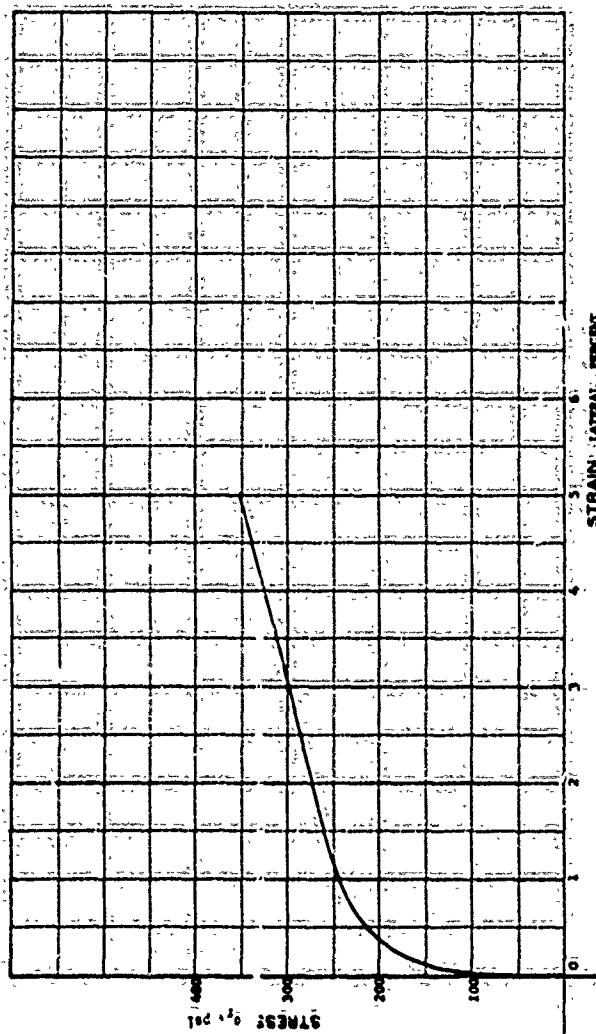
TOC

PROJECT	Georgia Institute of Technology A-602		
Contract No. DACA39-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 327		
DEPTH	DATE		
EL	PL	PI	19
LL	14		
DESCRIPTION: Weathered Bullock			
Constant Strain Ratio, 0.6			
Total Pressure, 1600 psi			

WATER CONTENT	W	12.71 %
VOID RATIO	e _v	0.81
SATURATION	s _s	42.48 %
DRY DENSITY	γ_d	93.19pcf
WET DENSITY	γ_w	105.03pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE



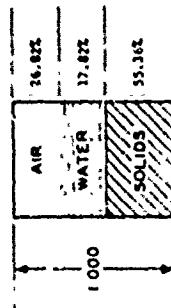
HYDROSTATIC PRESSURE, P, PSI

302

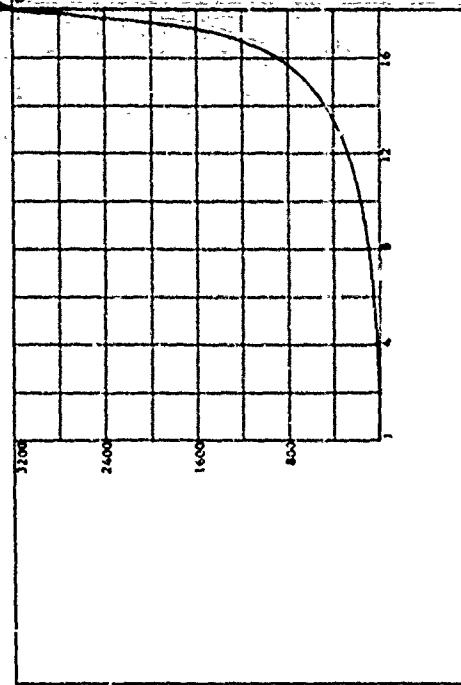
PROJECT	Geofish Institute of Technology 3-602		
Contract No.	TMCA39-87-C-0001		
AREA			
BORING NO.	SAMPLE NO. 327		
DEPTH EL.	DATE:		
LL	36.	PL	17
		PSI	119
DESCRIPTION: Machine Mill clay			
Constant Stress Ratio: 0.6			
Initial Pressure: 600 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	11.32	%
VOID RATIO	e_0	0.81	
SATURATION	S _o	39.93	%
DRY DENSITY	γ_d	93.27	pcf
WET DENSITY	γ_w	106.39	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.41	cm

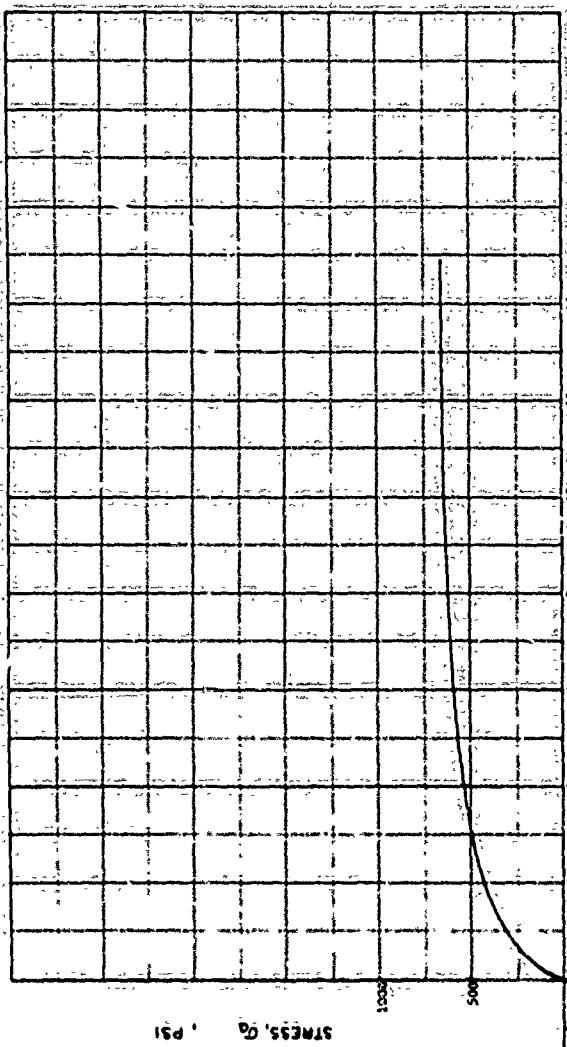


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

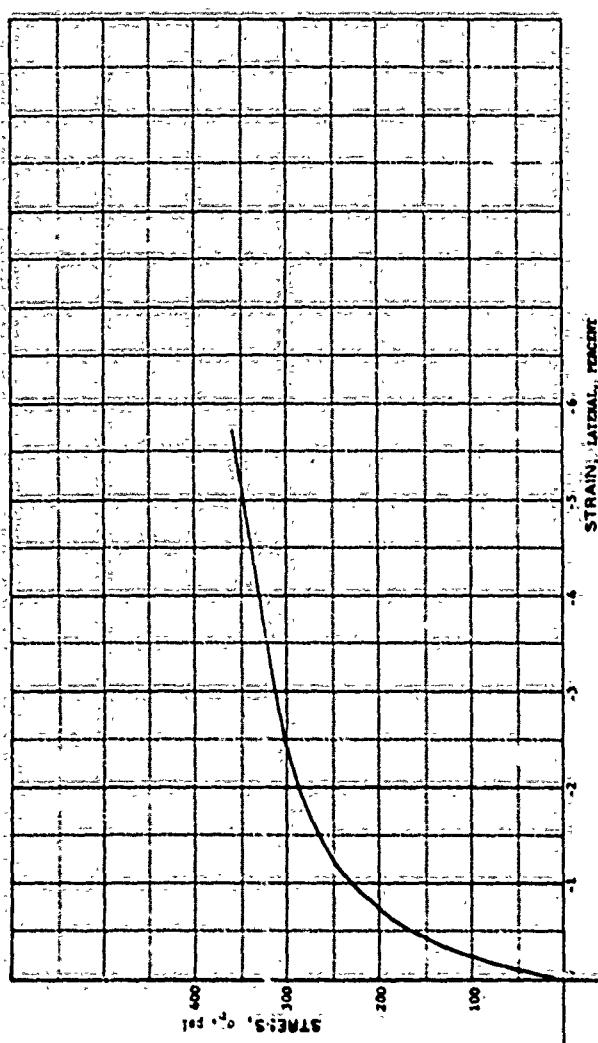
303



DEVIATORIC STRESS, σ_0 , PSI, PERCENT
TRIAXIAL SHEAR PHASE

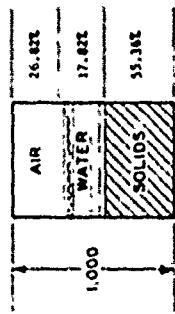
PROJECT	Bentonite Test Series 8-922	
Contract No. MAC-9-47-C-9051		
AREA	SAMPLE NO.	DATE
BORING NO.	310	
DEPTH EL.		
LL	36	PL 17
DESCRIPTION	Unloading Bulbility	
Constant Stress Ratio, σ_3/σ_1	0.6	
Initial Pressure, 3200 psi		

VOLMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	11.92 %
VOID RATIO	e_0	0.81
SATURATION	S_o	35.93 %
DRY DENSITY	γ_d	91.21pcf
WET DENSITY	γ	104.39pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.30 cm
SPECIMEN HEIGHT	H_0	7.61 cm



HYDROSTATIC PRESSURE, P , psi

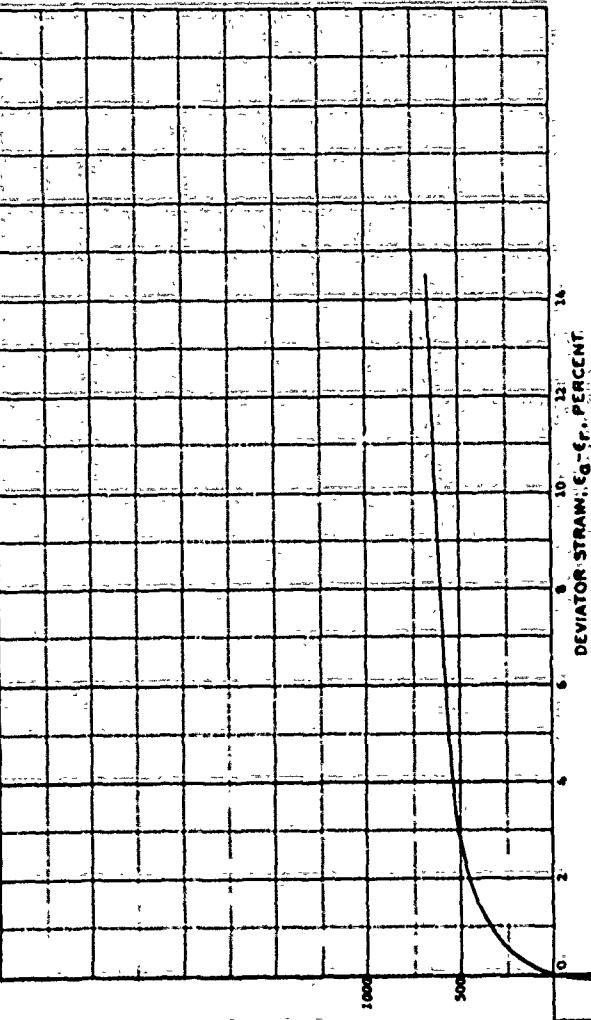
304

PROJECT	Georgia Institute of Technology B-972		
Contract No. DA-232-67-C-0031			
AREA			
BORING NO.	SAMPLE NO. 310		
DEPTH			
EL			
LL	16	PL	17
		PI	19
DESCRIPTION: <u>Zachslie Milliey</u>			
Constant Stress Ratio: 0.6			
Initial Pressure: 3200 psi			

VOLUMETRIC STRAIN, $\Delta V/V$, PERCENT

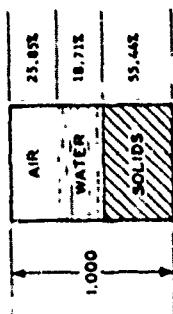
WATER CONTENT	W	12.50 %
VOID RATIO	e ₀	0.60
SATURATION	S ₀	41.99 %
DRY DENSITY	-	70.40 PCF
WET DENSITY	-	105.07 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 CM
SPECIMEN HEIGHT	H ₀	7.63 CM

STRENGTH, Q_s, PSI



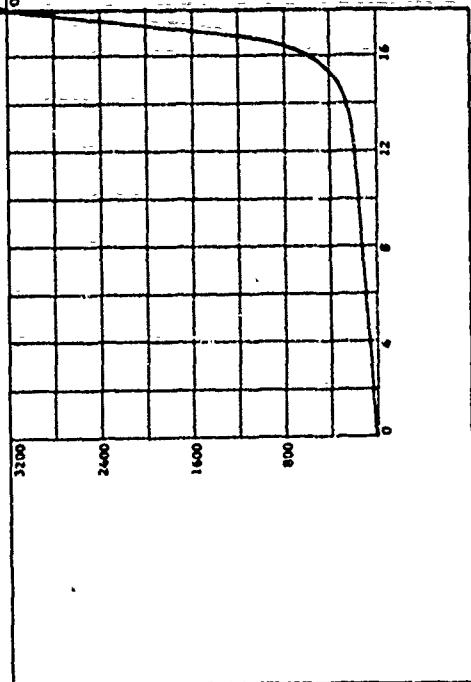
TRIAXIAL SHEAR PHASE.

HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

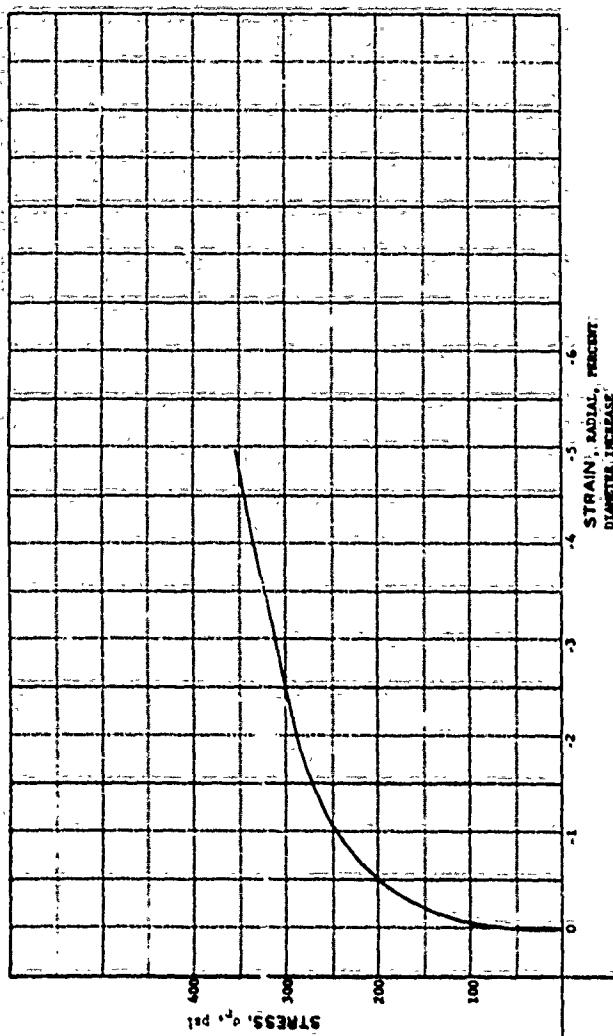
305



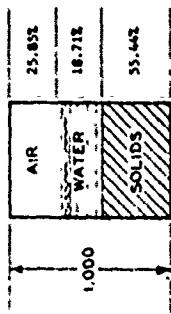
VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

PROJECT			
Seattle Institute of Technology I-1621			Contract No. DACSO-67-C-0031
AREA:			
SAMPLING NO. 319			
DEPTH, EL.	DATE	PL.	P ₁
L.L.	36	17	159
DESCRIPTION: Section Still Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 3200 psi			

WATER CONTENT	w	12.50 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	41.99 %
DRY DENSITY	γ_d	93.40 PCF
WET DENSITY	γ_w	105.07 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D _c	3.50 CM
SPECIMEN HEIGHT	H _c	7.63 CM



HYDROSTATIC COMPRESSION PHASE

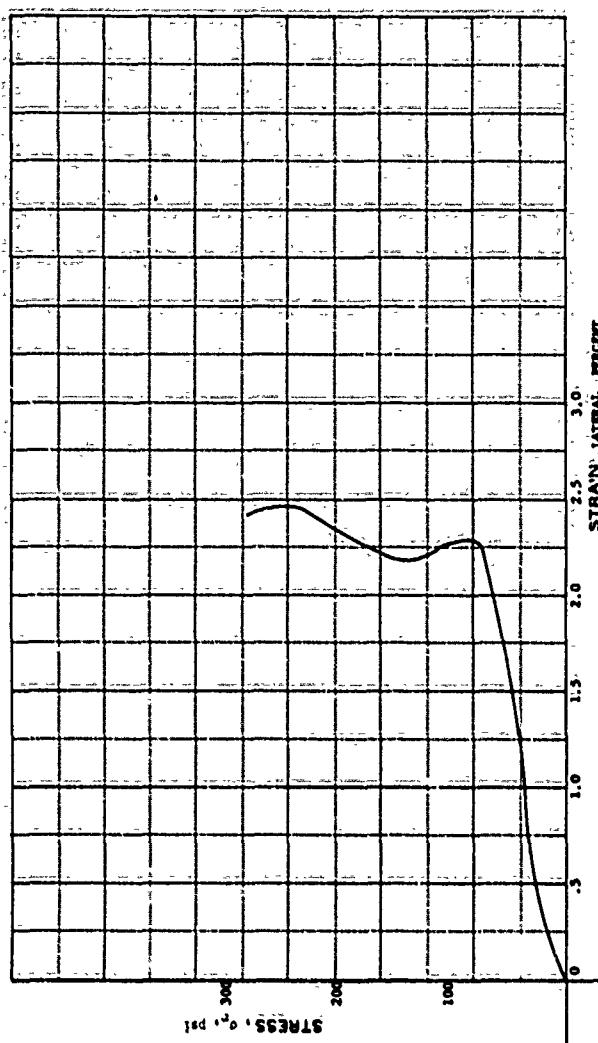


HYDROSTATIC PRESSURE, P, PSI

300

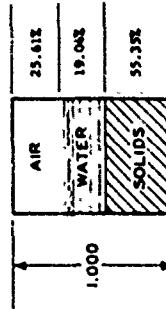
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT	Georgia Institute of Technology, E-602 Contract No. DACA19-62-C-0051		
AREA			
BORING NO.	SAMPLE NO.	3111	
DEPTH	DATE		
EL.	LL	PL	PI
	36	17	19
DESCRIPTION	Hatchie Hill Clay Constant Stress Ratio, 0.6 Initial Pressure, 3200 psi		



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	13.76	%
VOID RATIO	e _o	0.81	
SATURATION	S _o	42.66	%
DRY DENSITY	γ _d	93.25	pcf
WET DENSITY	γ _w	105.16	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.49	cm
SPECIMEN HEIGHT	H _o	7.63	cm

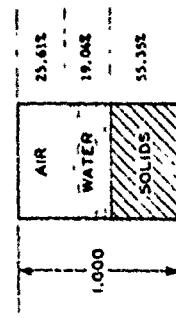


HYDROSTATIC PRESSURE, P, PSI

PROJECT: Georgia Institute of Technology B-602	
Contract No.: DMR39-67-C-0021	
AREA:	
BOREING NO.	SAMPLE NO. 342
DEPTH	DATE
EL	
LL	PL
36	17
	P _i
	19
DESCRIPTION: Architet Hill Clay	
Constant Stress Ratio, 0.8	
Initial Pressure, 0 psi	

VOLMETRIC STRAIN, ΔV/V, PERCENT

WATER CONTENT	W	12.76 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	42.64 %
DRY DENSITY	γ_d	9.25 PCF
WET DENSITY	γ_w	105.14 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D	2.49 CM
SPECIMEN HEIGHT	H ₀	7.63 CM

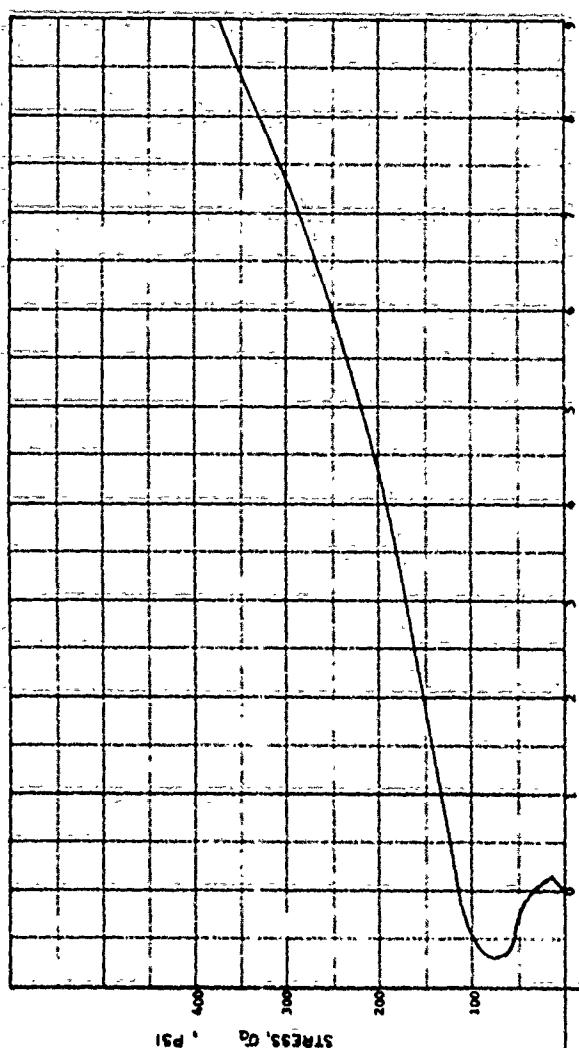


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, p , PSI

308

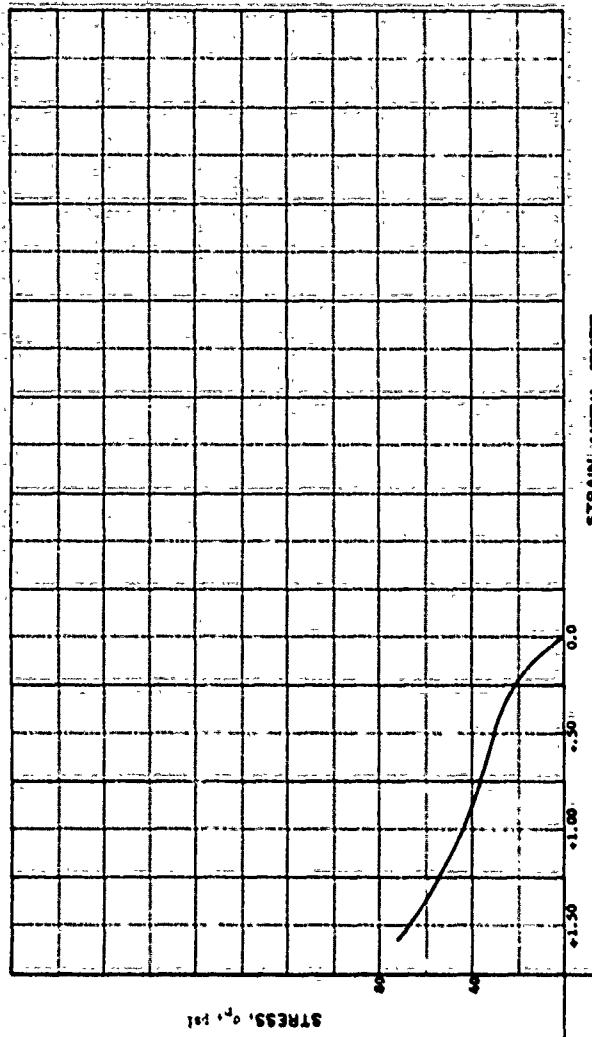
DEVIATOR STRAIN, $\epsilon_d - \epsilon_f$, PERCENT
TRIAXIAL SHEAR PHASE



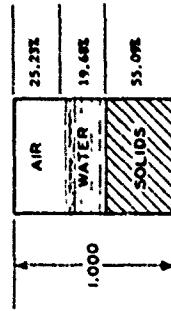
HYDROSTATIC PRESSURE, p , PSI

PROJECT: George Institute of Technology I-602		
Contract No. DKA19-67-C-0031		
AREA:		
BORING NO.	SAMPLE NO. 1422	DATE
DEPTH: EL.	PL.	PT.
LL.	17	19
DESCRIPTION: Weathered Shale Clay		
Constant Stress Ratio, 0.6		
Initial Pressure, 0 psi		

WATER CONTENT	W	13.26 %
VOID RATIO	e ₀	0.82
SATURATION	S ₀	43.83 %
DRY DENSITY	γ_d	92.81 PCF
WET DENSITY	γ_w	105.09 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.69 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE



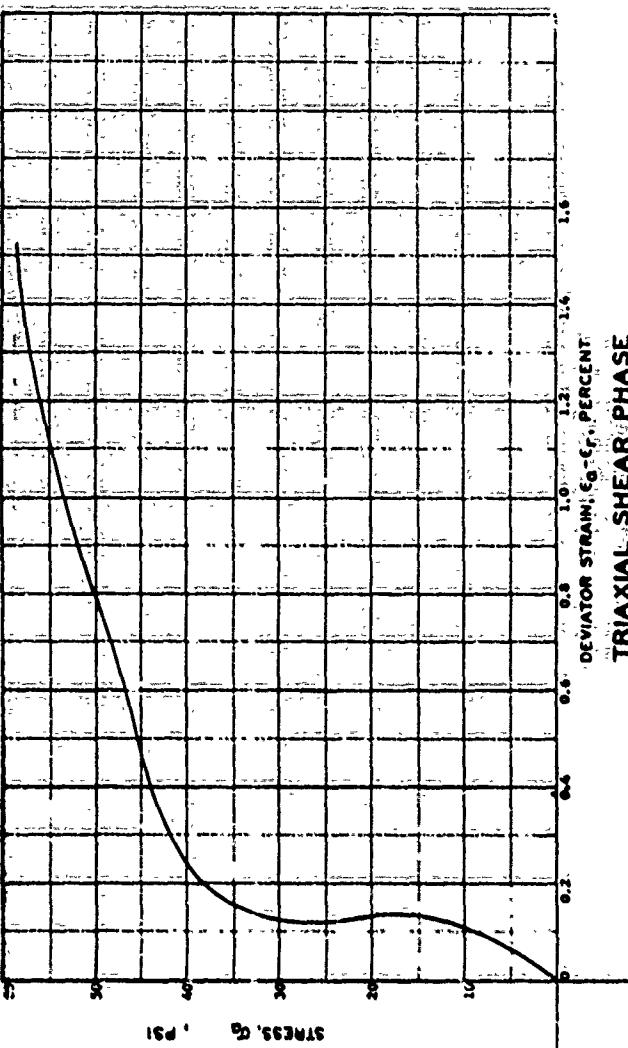
HYDROSTATIC PRESSURE, P, PSI

309

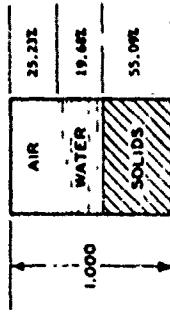
PROJECT: General Justification of Testimony		
Contract No. DCAAF-67-C-0031		
AREA		
BORING NO.	SAMPLE NO. 343	
DEPTH EL.	DATE	
LL	PL	PI
DESCRIPTION: Watchung Hills Clay		
Compressive Stress Ratio, 0.8		
Initial Pressure, 0 psi		

VOLUMETRIC STRAIN, ΔV/V, PERCENT

WATER CONTENT	W	13.24 %
VOID RATIO	e ₀	0.82
SATURATION	S _o	43.83 %
DRY DENSITY	D _d	92.81pcf
WET DENSITY	D _w	105.09pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.63 cm



HYDROSTATIC COMPRESSION PHASE



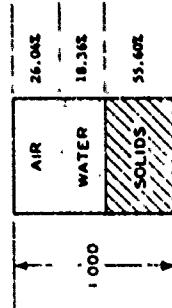
HYDROSTATIC PRESSURE, P, psi

310

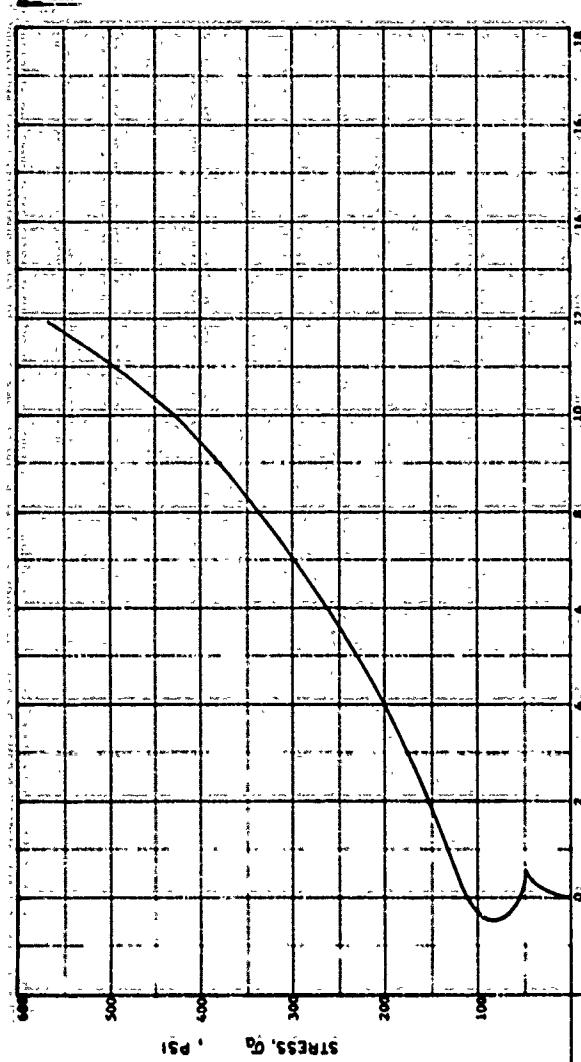
VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

PROJECT: Georgia Institute of Technology B-602	
Concrete No. 602A9-67-C-0051	
AREA:	SAMPLE NO.: 243
BORING NO.:	DATE:
DEPTH EL:	PL
LL	W
P ₁	15'
DESCRIPTION: Weathered Atlantic Clay	
Compressive Strength Ratio, 0.81	
Initial Pressure, 0 psi	

WATER CONTENT	W	12.23	%
VOID RATIO	e_0	0.40	
SATURATION	S_o	41.36	%
DRY DENSITY	γ_d	90.49	PCF
WET DENSITY	γ_w	103.16	PCF
SPECIFIC GRAVITY	G_s	2.70	
OPEN-END DIAMETER	D_o	3.49	CM
SPECIMEN HEIGHT	H_o	7.63	CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P_h , PSI

311

TRIAXIAL SHEAR PHASE

PROJECT: Georgia Institute of Technology - 1-502	
Contract No.: N6039-67-C-0051	
AREA:	
BORING NO.:	SAMPLE NO.: 345
DEPTH	DATE:
EL.	
LL.	PL. 17
	PR. 39

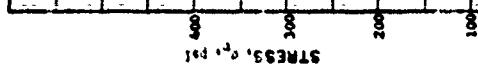
DESCRIPTION: Latching Bit/Clex

Constant Stress Factor: 0.3

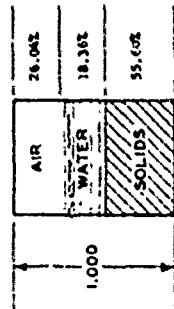
Initial Pressure, Open: 0

Initial Pressure, Closed: 0

WATER CONTENT	W	12.23 %
VOID RATIO	e ₀	0.80
SATURATION	S ₀	41.34 %
DRY DENSITY	D ₀	91.68 PCF
WET DENSITY	D _w	103.16 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D _o	3.69 CM
SPECIMEN HEIGHT	H _o	1.63 CM



HYDROSTATIC COMPRESSION PHASE

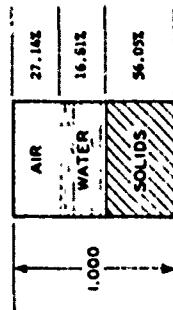


HYDROSTATIC PRESSURE, P, PSI

312

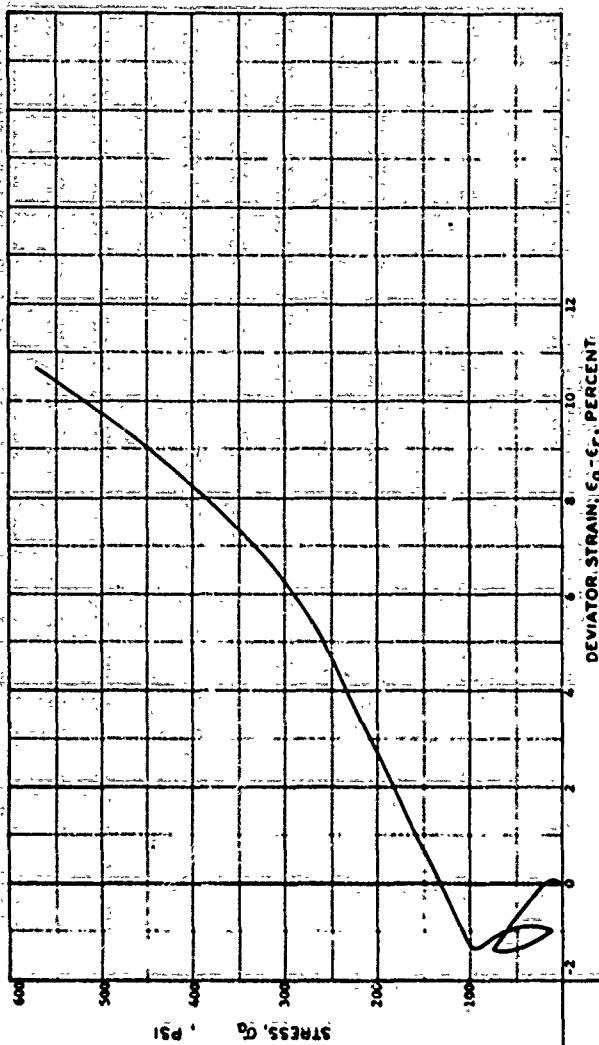
PROJECT: Georgia Institute of Technology S-502			
Contract No. DECA39-67-C-0051			
AREA:			
BORING NO.	SAMPLE NO.	DATE	
LL	PL	17	P1 19
DESCRIPTION: Wachusett Hill Clay			
Constant Stress Ratio, 0.8			
Initial Pressure, 0 psi			

WATER CONTENT	%	11.11	%
VOID RATIO	e_0	0.78	
SATURATION	S_0	36.75	%
DRY DENSITY	γ_d	94.43	pcf
WET DENSITY	γ_w	104.42	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.69	cm
SPECIMEN HEIGHT	H_0	7.63	cm



HYDROSTATIC COMPRESSION PHASE

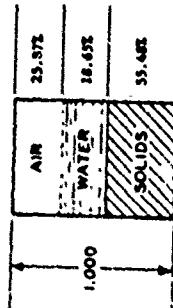
HYDROSTATIC PRESSURE, P, PSI



TRIAXIAL SHEAR PHASE

PROJECT	Concord Institute of Technology
Contract No.	MAC3947-C-0051
AREA	
BORING NO:	
DEPTH:	
EL:	
LL:	
PL:	
Pt:	
SAMPLE NO:	349
DATE:	
DESCRIPTION	Watchie's Hill Clay
Constant Stress Ratio, 0.8; Initial Pressure, 0 psi;	
Cycle Shear, 0/32	

WATER CONTENT	W	17.65	%
VOID RATIO	e ₀	0.60	
SATURATION	S _o	41.68	%
DRY DENSITY	γ _d	52.67	pcf
WET DENSITY	γ _w	105.11	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.61	cm

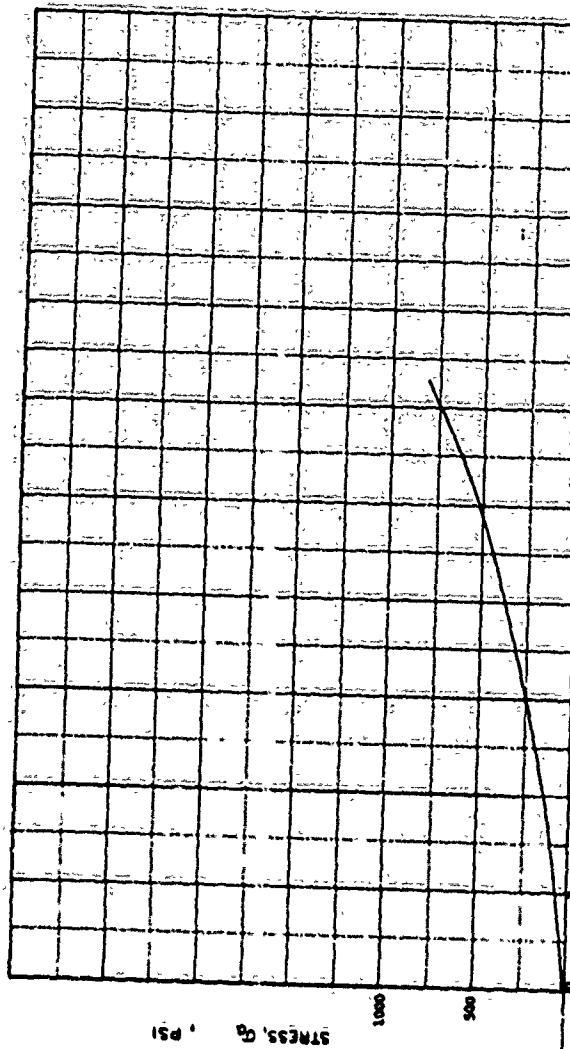


HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

314

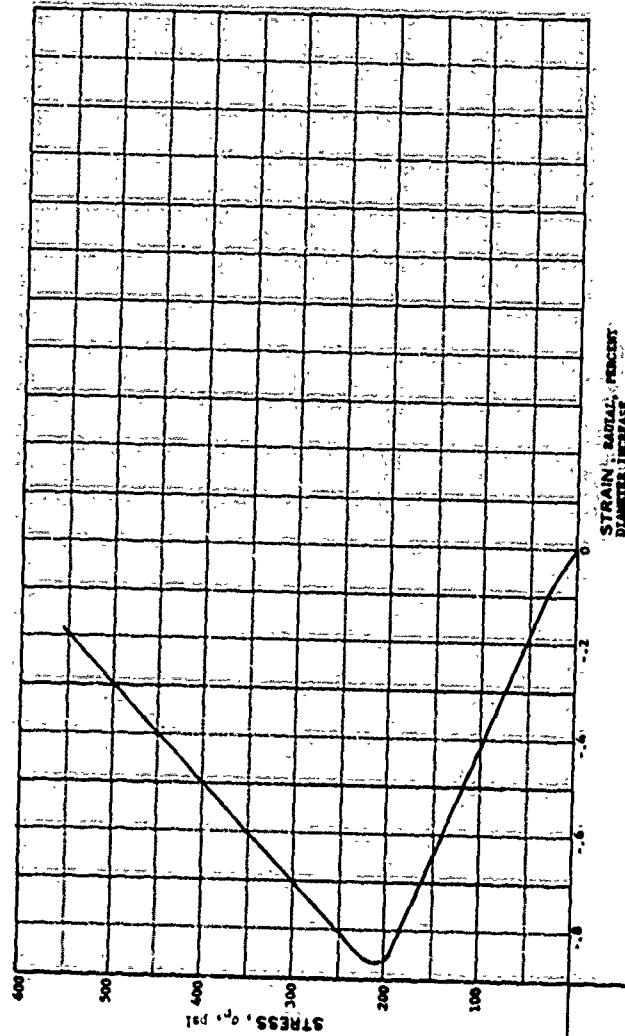
DEVIATOR STRAIN, ε_d, PERCENT
TRIAXIAL SHEAR PHASE



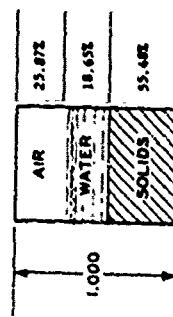
PROJECT	Georgia Institute of Technology B-602		
Contract No. DACA39-67-C-0001			
AREA			
BORING NO.	SAMPLE NO.	20	
DEPTH	DATE		
EL.			
LL	PL	17	PL
			19
DESCRIPTION: Watchung Siliciclast			
Concrete Stress Ratio: 0.8			
Initial Pressure: 107 psi			

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.65	%
VOID RATIO	e ₀	0.80	
SATURATION	S ₀	41.88	%
DRY DENSITY	γ_d	93.47	pcf
WET DENSITY	γ_w	105.11	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	cm
SPECIMEN HEIGHT	H ₀	7.61	cm



HYDROSTATIC COMPRESSION PHASE



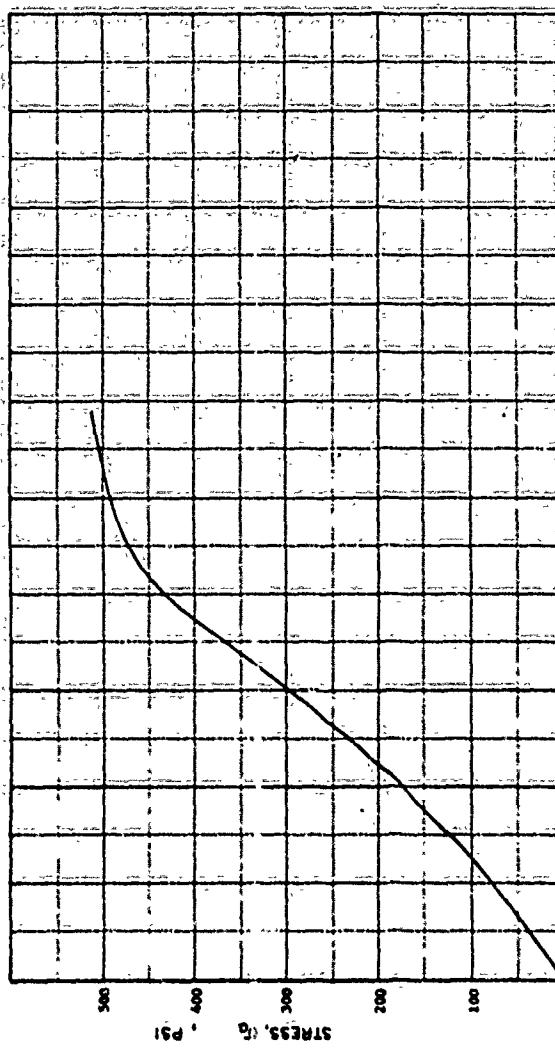
HYDROSTATIC PRESSURE, P, PSI

315

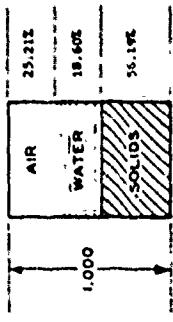
PROJECT:	Georgia Institute of Technology B-002		
Contract No. DACA39-02-C-0021			
AREA:			
BORING NO.	SAMPLE NO.	293	
DEPTH	DATE:		
EL	LL	PL	17
DESCRIPTION: Selected Silts/Clim			
Constant Stress Ratio: 0.6			
Initial Pressure: 100 psi			

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.26 %
VOID RATIO	e ₀	0.78
SATURATION	s ₀	62.46 %
DRY DENSITY	γ_d	14.67 PCF
WET DENSITY	γ_w	106.28 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER D ₀	D ₀	3.47 CM
SPECIMEN HEIGHT H ₀	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE



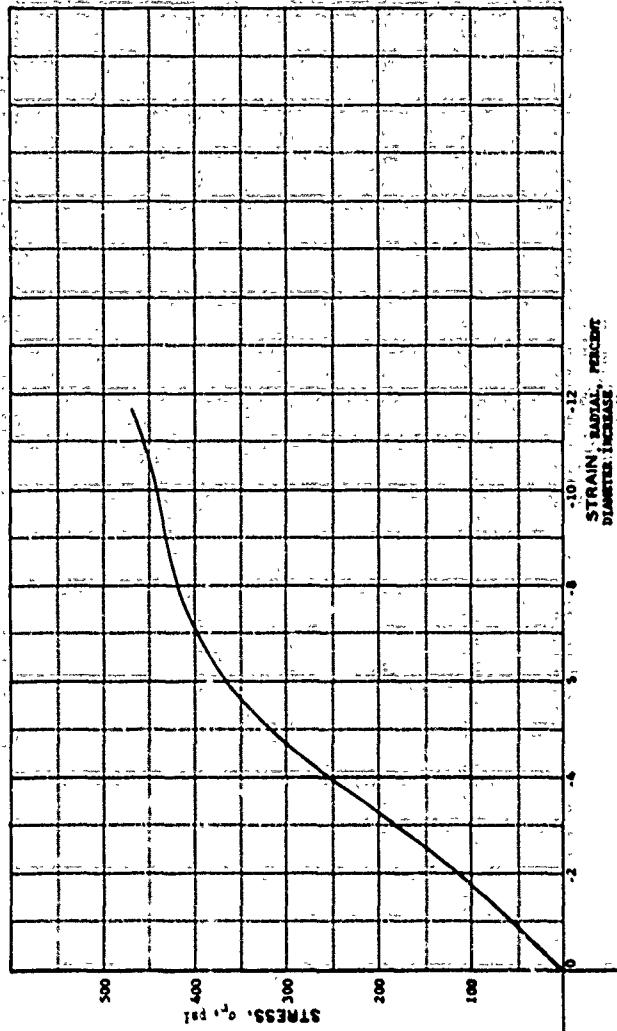
HYDROSTATIC PRESSURE, P, PSI

316

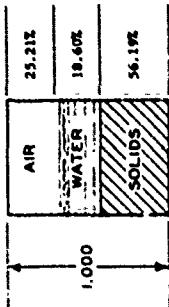
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT:	Georgia Institute of Technology B-602		
CoreSite No.:	INDIA 12-67-C-0021		
AREA:			
BORING NO.:	SAMPLE NO.:	296	
DEPTH:	DATE:		
EL:			
LL:	PL	17	PT-191
DESCRIPTION: Watchuse Mill Clay			
Constant Stress Ratio, 0.6			
Initial Pressure, 1100 psi			

WATER CONTENT	W	12.26 %
VOID RATIO	e ₀	0.78
SATURATION	S ₀	42.46 %
DRY DENSITY	γ_d	96.97pcf
WET DENSITY	γ'	106.28pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.47 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

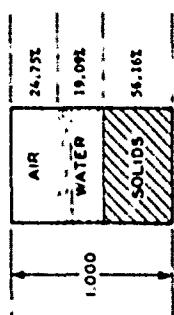
PROJECT:	Georgia Institute of Technology 2-62		
Contract No.	DACA39-67-C-0031		
AREA			
BORING NO.	SAMPLE NO.	DATE	
DEPTH EL	PL	PI.	19-
LL	36		

DESCRIPTION: Watch Hill Hill Clay

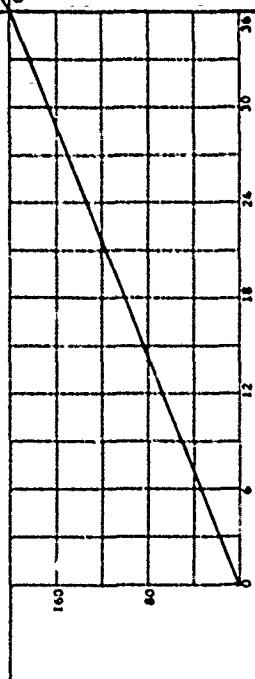
Constant Stress Ratio, 0.6

Initial Pressure, 100 psi

WATER CONTENT	W	12.59 %
VOID RATIO	e ₀	0.78
SATURATION	S ₀	43.34 %
DRY DENSITY	γ_d	94.63pcf
WET DENSITY	γ_w	106.34pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	2.47 cm
SPECIMEN HEIGHT	H ₀	7.43 cm



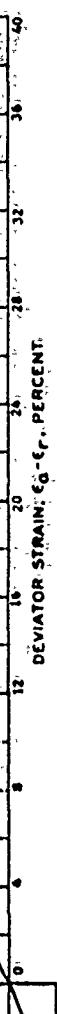
HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

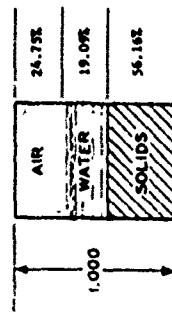
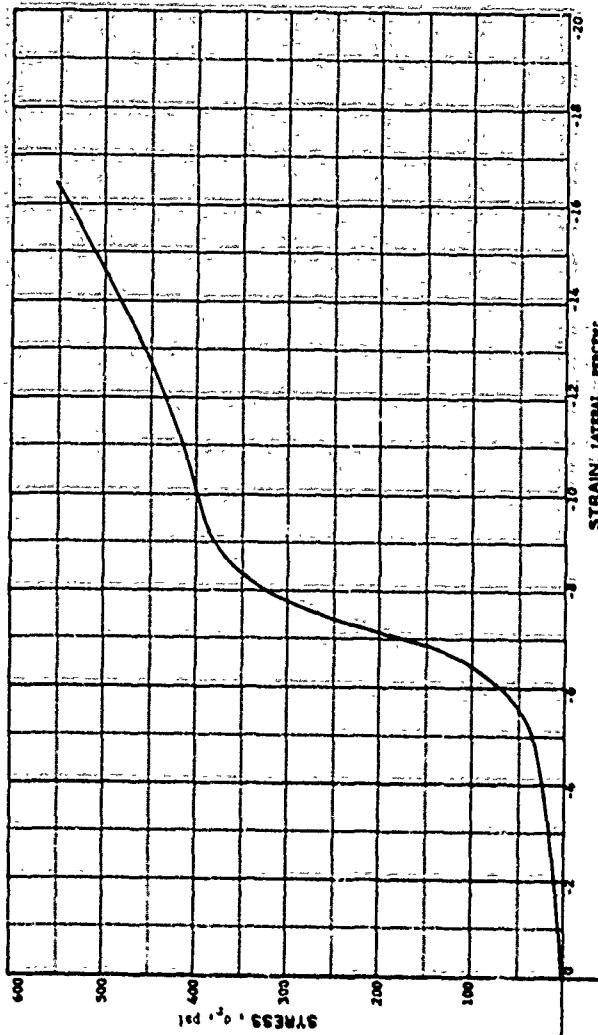
318

TRIAXIAL SHEAR PHASE



PROJECT:	Georgia Institute of Technology
Contract No.:	AG-137-67-C-001
AREA:	
BORING NO.:	SAMPLE NO.: 20
DEPTH E.L.:	DATE:
LL.	PL. 17 PT. 19
DESCRIPTION:	Watch Hill Clay
Constant Stress Ratio, 0.6; Initial Pressure, 200 psi	

WATER CONTENT	W	12.59 %
VOID RATIO	e _t	0.78
SATURATION	S _o	43.54 %
DRY DENSITY	γ_d	96.63 PCF
WET DENSITY	γ_w	106.56 PCF
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.67 CM
SPECIMEN HEIGHT	H ₀	7.63 CM



HYDROSTATIC COMPRESSION PHASE

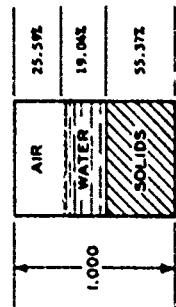
HYDROSTATIC PRESSURE, P, PSI

319

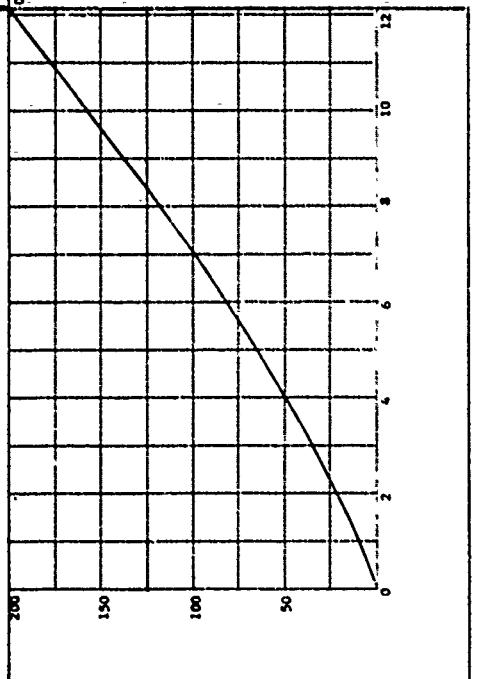
PROJECT: Georgia Institute of Technology	
Contract No.: 00000000-C-00001	
AREA	
BORING NO:	SAMPLE NO.: 203
DEPTH:	DATE
EL.	LL.
	PL.
	W.
	P1.
	19
DESCRIPTION: Weathering Marly Clay	
Constant Stress Ratio, 0.8; Initial Pressure, 200 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.73 %
VOID RATIO	e_0	0.81
SATURATION	S_o	42.67 %
DRY DENSITY	γ_d	92.30 PCF
WET DENSITY	γ	105.18 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 CM
SPECIMEN HEIGHT	H_o	7.63 CM

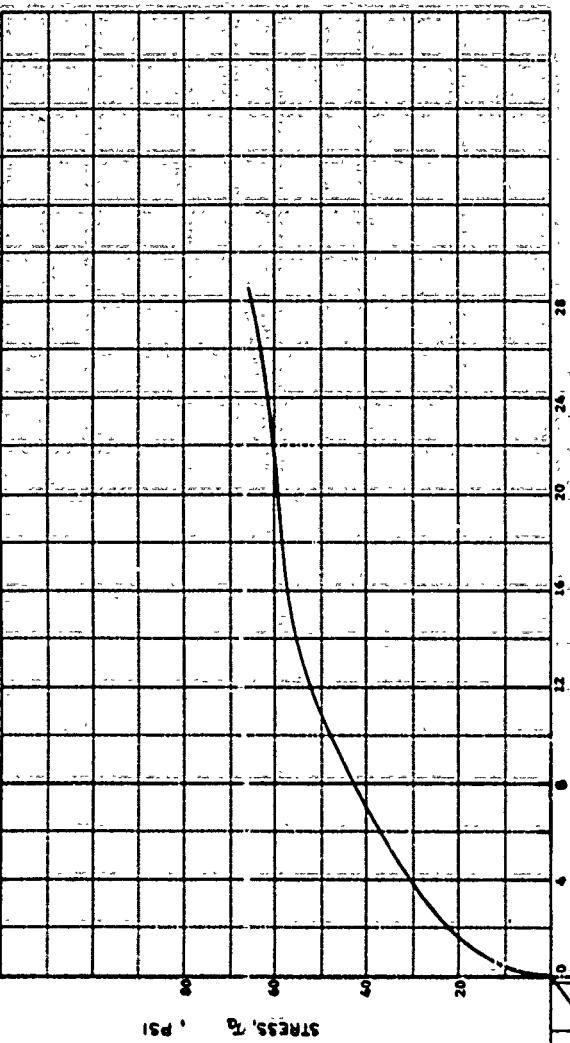


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , psi

320



TRIAXIAL SHEAR PHASE

PROJECT	Geotextile Institute of Technology 2.02
Contract No.	DEC 32-67-C-0031
AREA	
BORING NO.	SAMPLE NO. 202
DEPTH EL	DATE
LL 36	PL 17
	PI 19

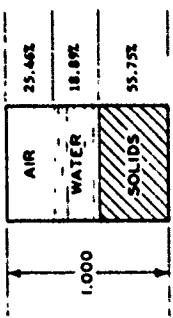
DESCRIPTION: *Mudstone*. *MUDCLAY*

Compressive Stress Ratio, 0.8

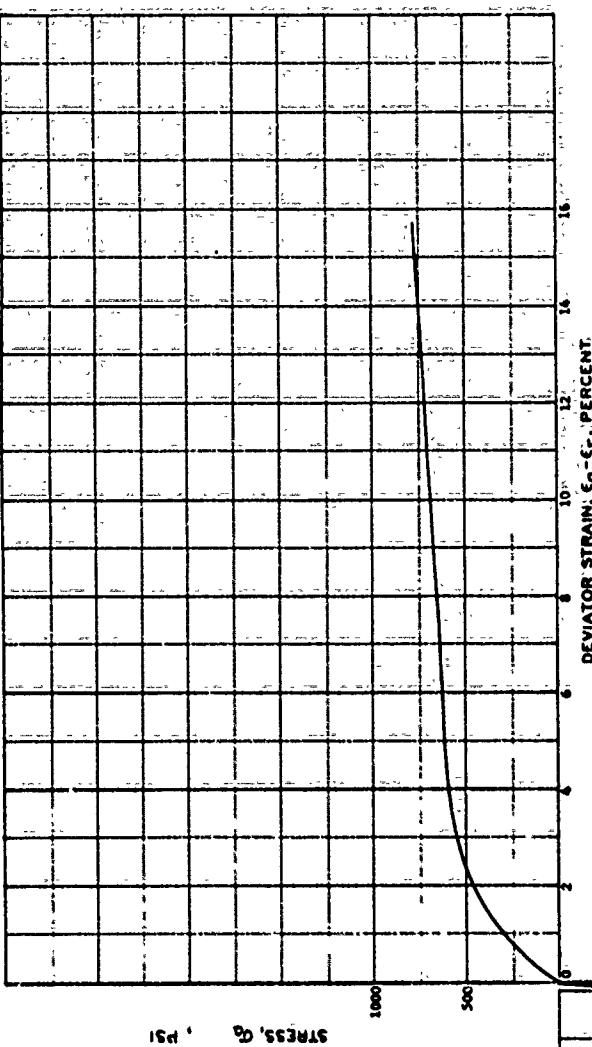
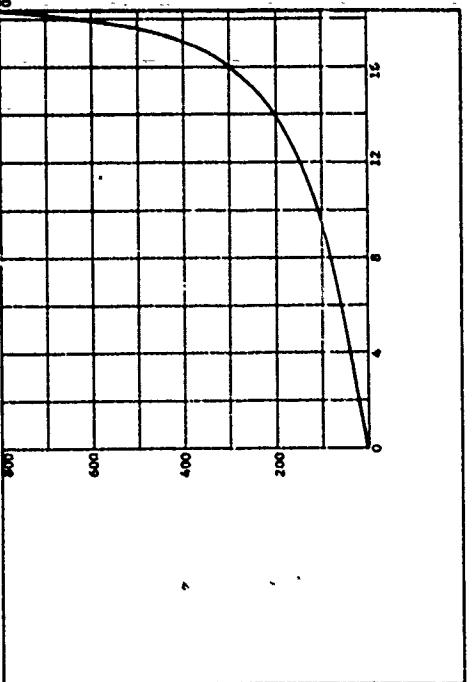
Initial Pressure, 200 psi

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.55	%
VOID RATIO	e ₀	0.79	
SATURATION	s ₀	42.69	%
DRY DENSITY	γ_d	93.92	pcf
WET DENSITY	γ_w	105.71	pcf
SPECIFIC GRAVITY	G_s	2.70	
DRIVEN DIAMETER	D ₀	3.48	cm
SPECIMEN HEIGHT	H ₀	7.63	cm



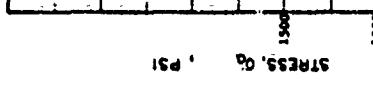
HYDROSTATIC COMPRESSION PHASE



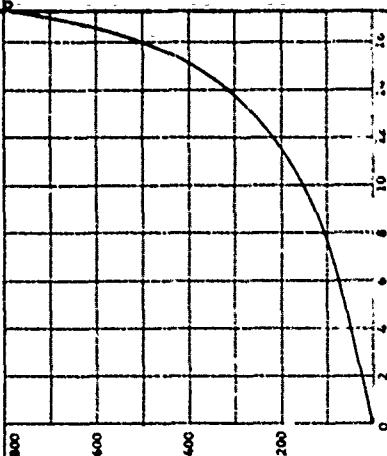
TRIAXIAL SHEAR PHASE

PROJECT	Georgia Institute of Technology B-402
CHIEF INVESTIGATOR	DR. C. G. SARKISIAN
AREA	
BORING NO.	
DEPTH	
EL.	
LL	36
PL	17
PT	19
DATE	
SAMPLE NO. 317	
DESCRIPTION: Watch Hill Clay	
Constant Stress Ratio: 0.6	
Initial Pressure: 800 psi	

WATER CONTENT	W	12.66 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	42.44 %
DRY DENSITY	γ_d	93.32pcf
WET DENSITY	γ_w	105.13pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE

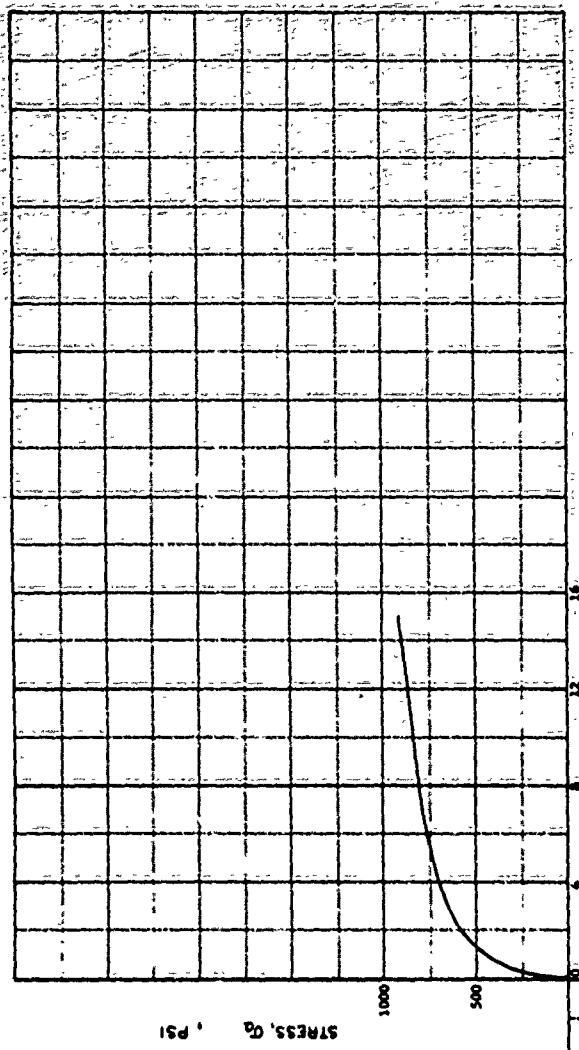


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

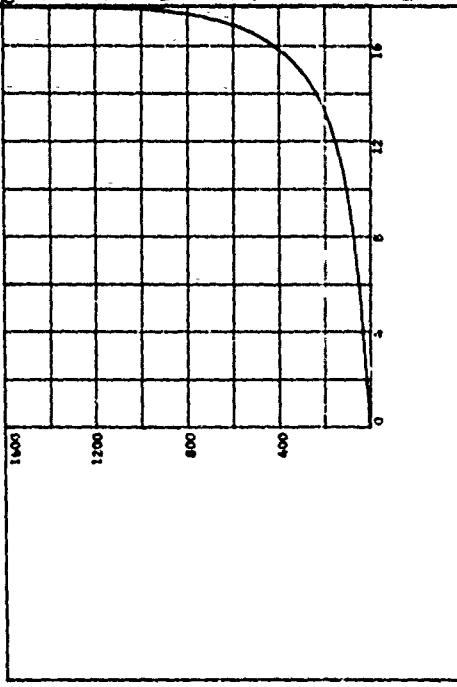
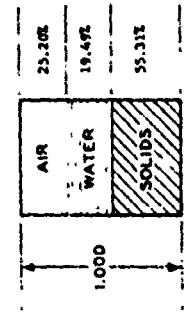
PROJECT:	Georgia Institute of Technology B-502 Contract No. NACA 3-67-C-0021		
AREA:	SAMPLE NO. 3301		
BORING NO.	PL	17	19
DEPTH			
EL.			
DESCRIPTION: Weatherill Clay			
Constant Stroke Ratio: 0.6			
Initial Pressure: 1000 psi			

HYDROSTATIC PRESSURE, P, PSI

WATER CONTENT	W	13.05 %
VOID RATIO	e ₀	0.81
SATURATION	S ₀	43.62 %
DRY DENSITY	γ _d	93.19pcf
WET DENSITY	γ	105.35pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.62 cm



HYDROSTATIC COMPRESSION PHASE

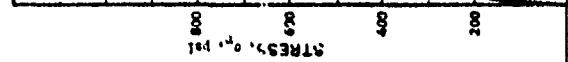


HYDROSTATIC PRESSURE, P, psi

PROJECT	Georgia Institute of Technology, S-602		
	Contract No. DACA39-67-C-0031		
AREA			
BORING NO.	SAMPLE NO. 316		
DEPTH	DATE		
EL.			
LL	36	PL.	17
		P ₁	19
DESCRIPTION	Machining Masticate		
	Consolidation Stress Ratio, Q/S		
	Saturation Pressure, 1600 psi		

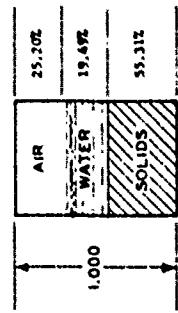
WATER CONTENT	$W = 13.05 \text{ \%}$
VOID RATIO	$e_0 = 0.81$
SATURATION	$S_0 = 43.62 \text{ \%}$
DRY DENSITY	$\gamma_d = 92.19 \text{ PCF}$
WET DENSITY	$\gamma = 105.35 \text{ PCF}$
SPECIFIC GRAVITY	$G_s = 2.70$
SPECIMEN DIAMETER	$D_o = 3.49 \text{ CM}$
SPECIMEN HEIGHT	$H_o = 7.62 \text{ CM}$

STRESS, σ , psi



STRAIN RADIAL,
DIAMETER INCREASE

HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P , PSI

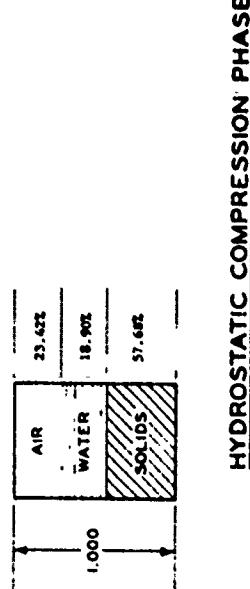
324

PROJECT	Georgia Institute of Technology B-602 Contract No.: DMAA39-67-C-0031		
AREA			
BORING NO.	SAMPLE NO. 316	DATE:	
DEPTH EL			
LL	36	PL	17
			PL 19
DESCRIPTION	Michigan Mill Clay		
	Constant Stress Ratio, 0.8		
	Initial Pressure, 1600 psi		

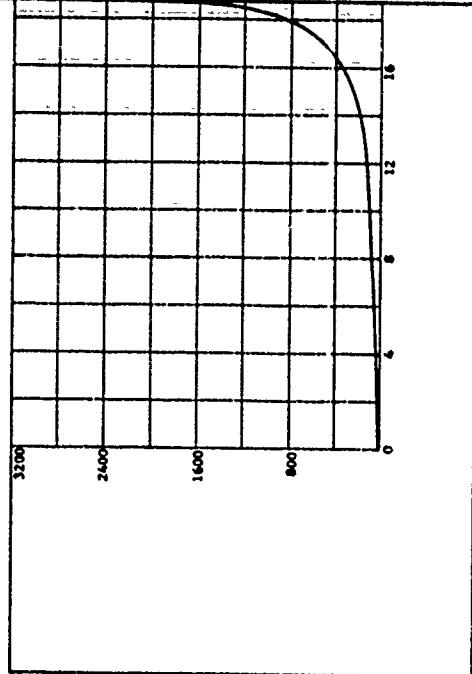
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.16	%
VOID RATIO	e ₀	0.73	
SATURATION	S _o	44.67	%
DRY DENSITY	γ_d	97.19	pcf
WET DENSITY	γ_w	108.30	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	5.49	cm
SPECIMEN HEIGHT	H ₀	7.63	cm

STRESS, Q_a, psi

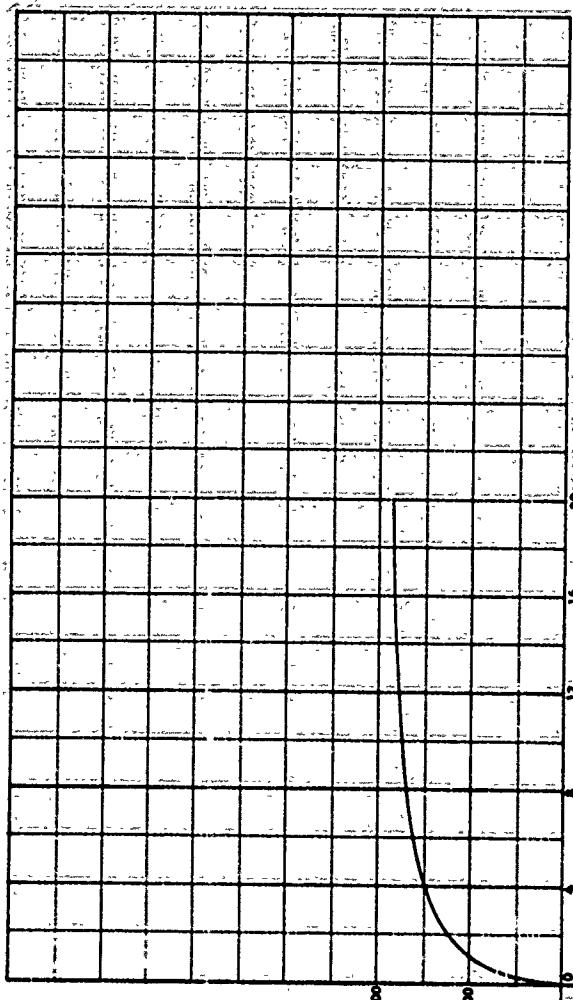


HYDROSTATIC COMPRESSION PHASE



VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

325



TRIAXIAL SHEAR PHASE

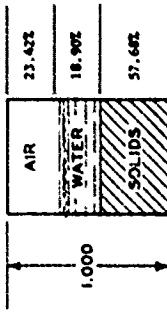
PROJECT	Georgia Institute of Technology 3-602		
Contract No.	BIAUS-67-C-0051		
DATE:			
BOREH NO.	SAMPLE NO. 316		
DEPTH	DATE		
LL	16	P.L.	17
	18	P.L.	19

DESCRIPTION: *Wetted Silty clay*

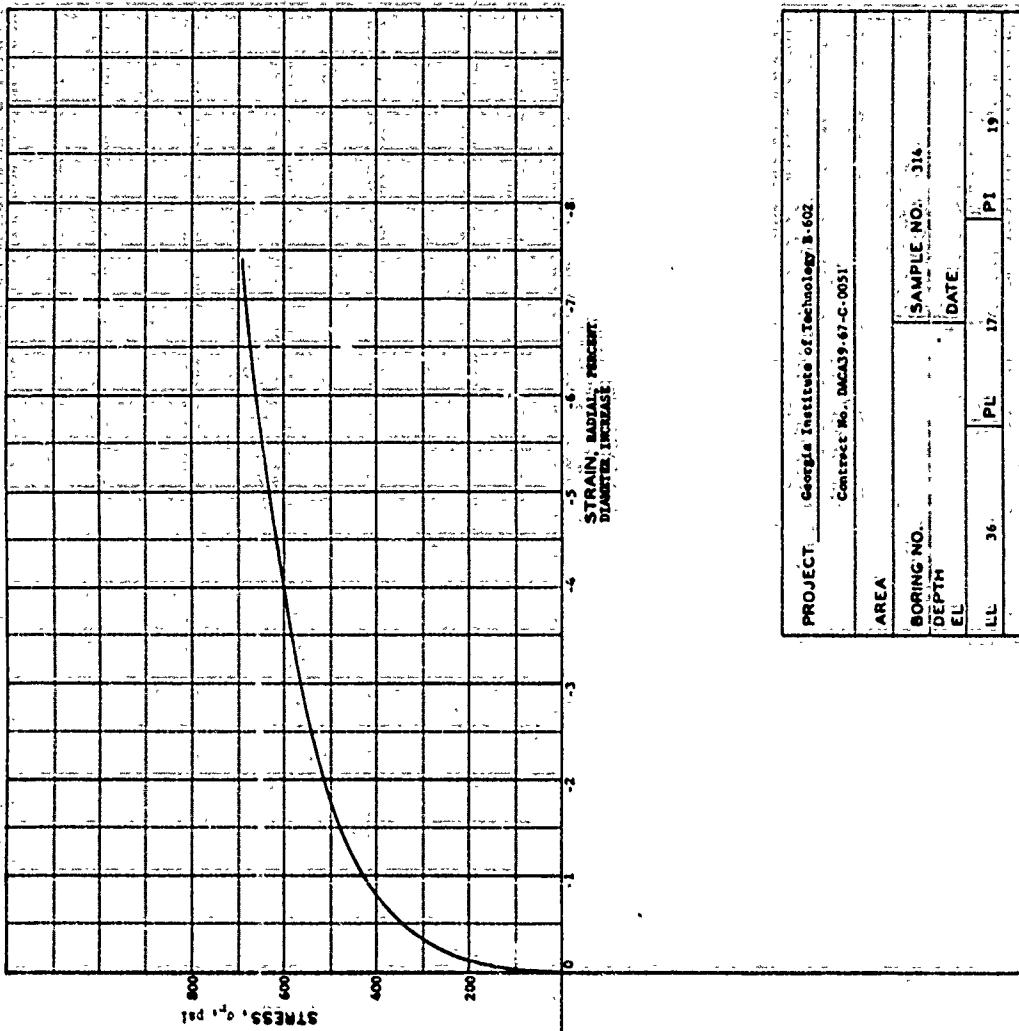
Confining Stress Ratio, 0.6

Initial Pressure, 3200 psi

WATER CONTENT	W	12.16 %
VOID RATIO	e_0	0.73
SATURATION	S_0	44.67 %
DRY DENSITY	γ_d	97.19 PCF
WET DENSITY	γ_w	108.96 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.49 CM
SPECIMEN HEIGHT	H_0	7.62 CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

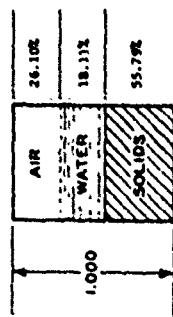
326

PROJECT	Georgia Institute of Technology E-602		
Contract No.	DACA39-67-C-0051		
AREA			
BORING NO.	SAMPLE NO.	316	
DEPTH EL	DATE		
ILL	PL	17	P1
			19
DESCRIPTION Watchung Hill Clay			
Constant Stress Ratio, 0.8			
Initial Pressure, 3200 psi			

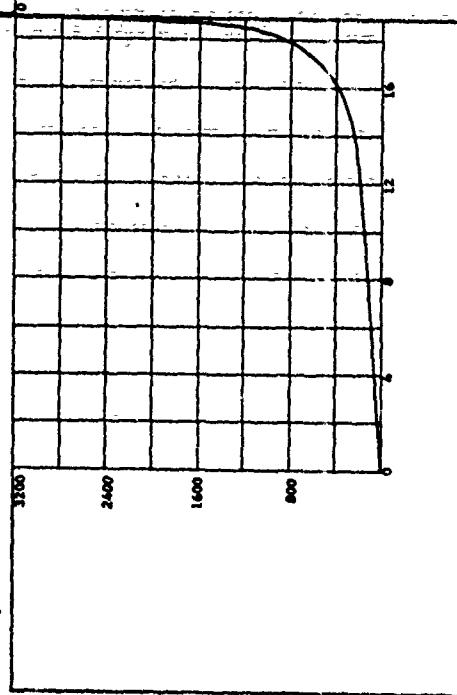
VOLUMETRIC STRAIN, $\Delta V/V$, PERCENT

WATER CONTENT	W	12.02 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	60.97 %
DRY DENSITY	γ _d	56.00pcf
WET DENSITY	γ _w	105.30pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.50 cm
SPECIMEN HEIGHT	H ₀	7.62 cm

STRESS, σ, psi

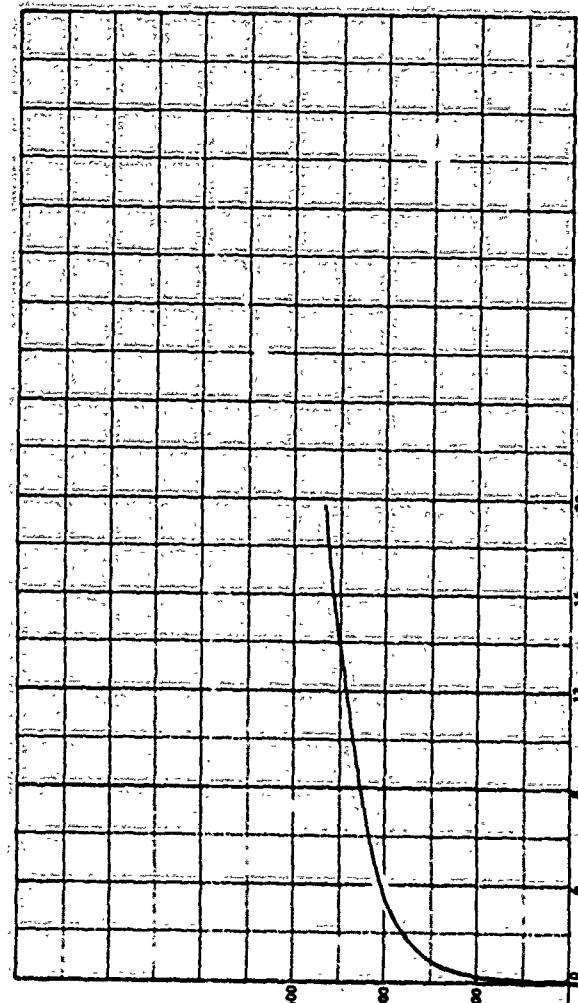


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

327



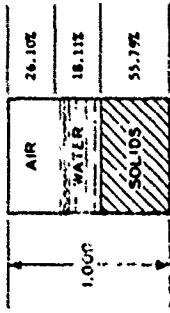
DEVIATOR STRAIN, E_q, PERCENT
TRIAXIAL SHEAR PHASE

PROJECT	Geotechnical Institute of Technology
Contract No.	DOA99-97-C-0031
AREA	
BORING NO.	SAMPLE NO. 331
DEPTH EL	DATE
LL	PL
PI	10

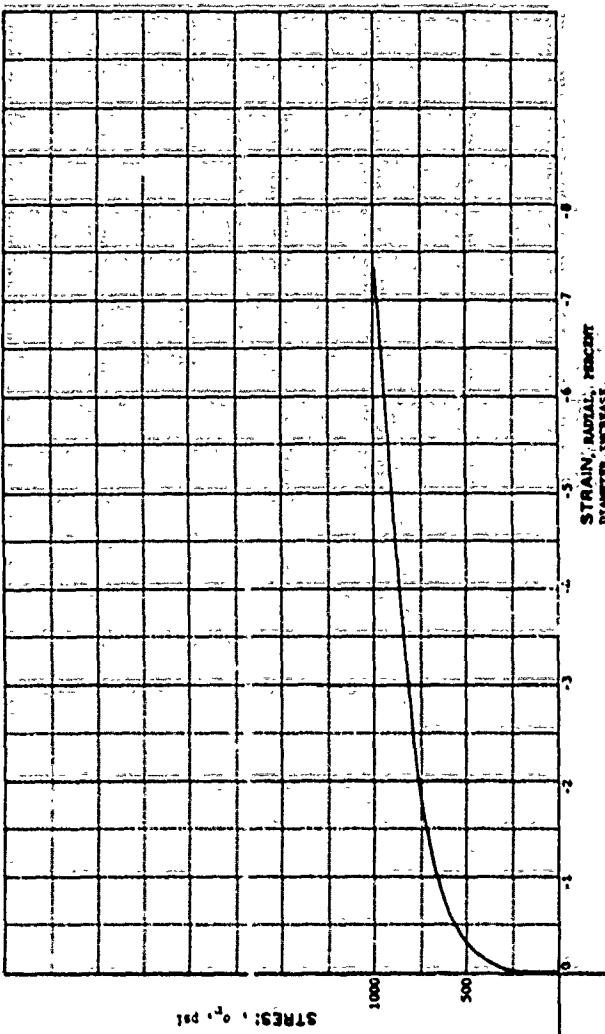
DESCRIPTION: Muckong Hill Clay
Constant Stress Ratio: 0.6
Initial Pressure: 3000 psi

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.02	%
VOID RATIO	e ₀	0.79	
SATURATION	S ₀	40.97	%
DRY DENSITY	γ _d	96.00	pcf
WET DENSITY	γ _w	105.30	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.62	cm



HYDROSTATIC COMPRESSION PHASE



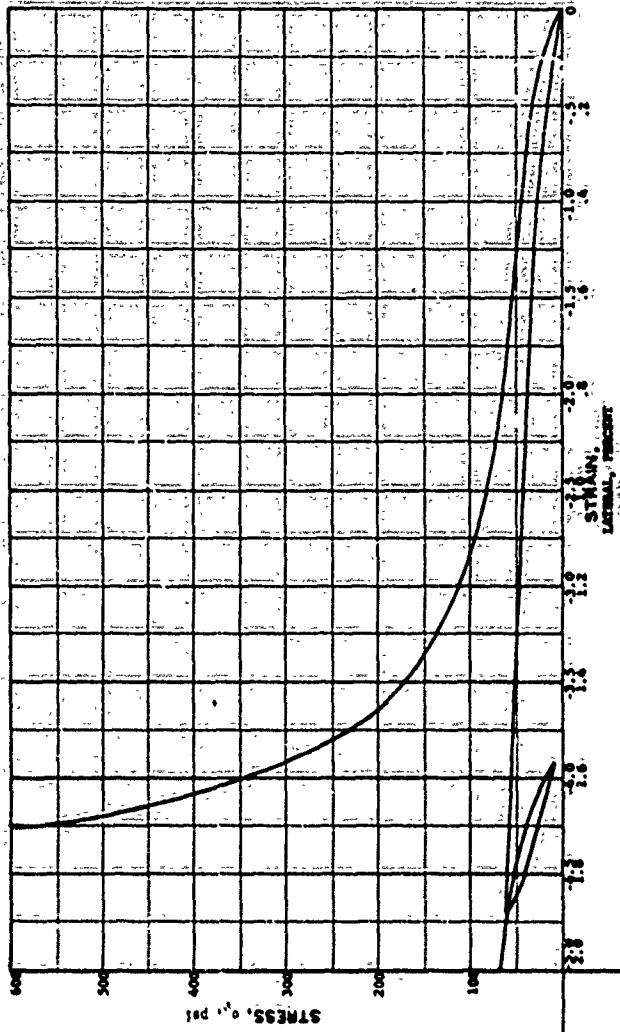
HYDROSTATIC PRESSURE, σ_0 , PSI

328

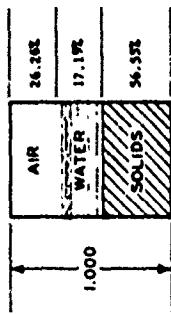
PROJECT	Georgia Institute of Technology S-602		
Contract No. NAG-19-67-C-0051			
AREA			
BORING NO.	SAMPLE NO. 31:		
DEPTH:	DATE		
EL	36	PL	17
		PL	18

DESCRIPTION: Watchman Hill clay
Constant Stress Ratio, 0.8
Initial Pressure, 3100 psi

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	11.26	%
VOID RATIO	e_0	0.77	
SATURATION	S_o	39.57	%
DRY DENSITY	γ_d	95.21	pcf
WET DENSITY	γ_w	106.00	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.69	cm
SPECIMEN HEIGHT	H_0	7.59	cm



HYDROSTATIC COMPRESSION PHASE

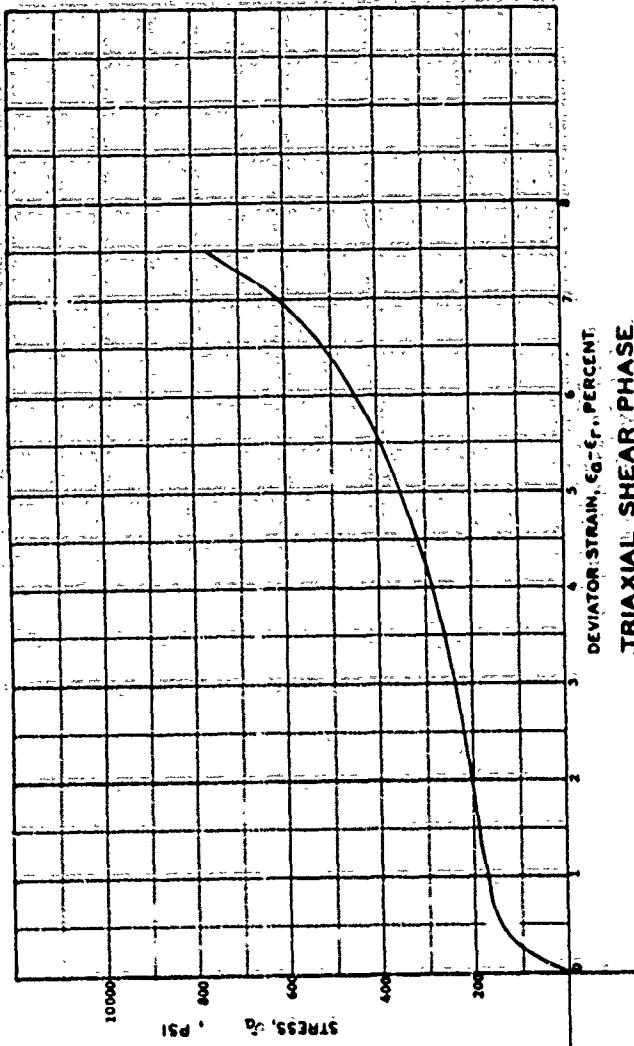
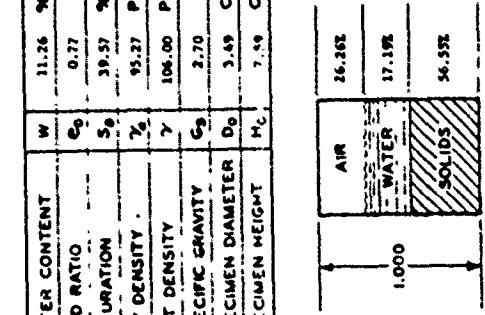
HYDROSTATIC PRESSURE, P, PSI

329

PROJECT: Georgia Institute of Technology S-602	Contract No. NAG-3-67-C-0091		
AREA:			
BORING NO.	SAMPLE NO. 219	DATE	
DEPTH EL.	PL.	17	PI. 19
LL.			
DESCRIPTION: Inorganic Silicate Clay			
Compressive Strength Ratio, 0.8; Saturated Pressure, 0.75;			
Cycle Stress @ 328			

VOLUME TRAC STRAIN, AV/%. PERCENT

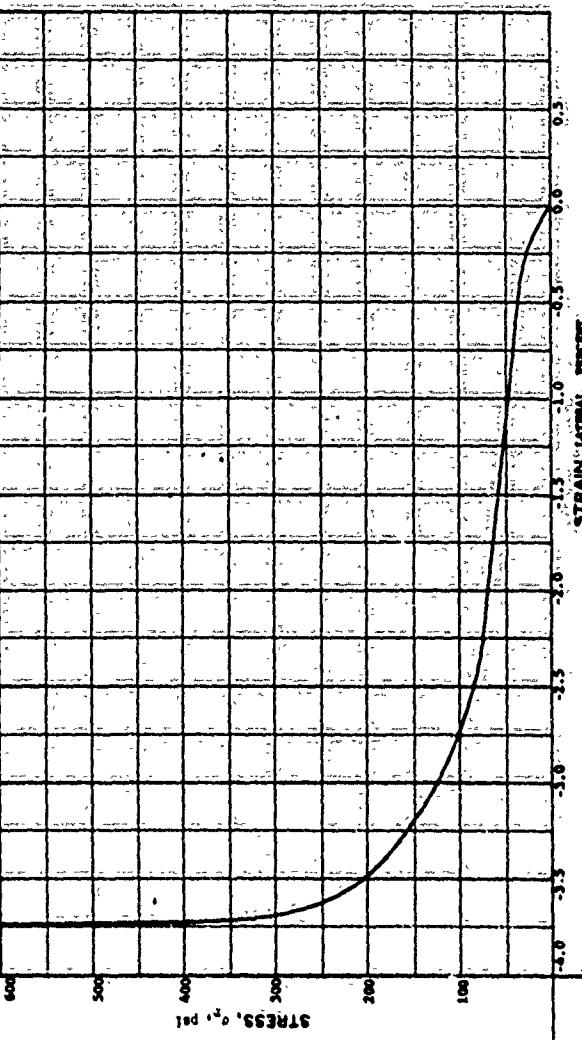
WATER CONTENT	W	11.26	%
VOID RATIO	e _o	0.77	
SATURATION	S _o	39.57	%
DRY DENSITY	γ_d	95.27	pcf
WET DENSITY	γ_w	106.00	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.49	cm
SPECIMEN HEIGHT	H _c	7.49	cm



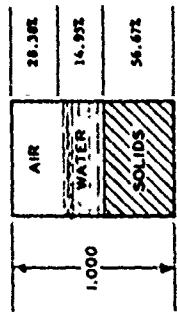
HYDROSTATIC PRESSURE, P, PSI

PROJECT: Georgia Institute of Technology 3-602	SAMPLE NO.: 219,
Contract No. 36419-67-C-0031	DATE:
AREA:	
BORING NO.	
DEPTH	
EL:	
J.L.	PL
	PI
	19
DESCRIPTION: Wet sand, 51% clay.	
Constant Strain Ratio, 0.9	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	9.77 %
VOID RATIO	e ₀	0.76
SATURATION	S ₀	34.49 %
DRY DENSITY	r _d	95.67 pcf
WET DENSITY	r _w	104.80 pcf
SPECIFIC GRAVITY	G _s	2.70
CYLINDER DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	7.62 CM



HYDROSTATIC COMPRESSION PHASE

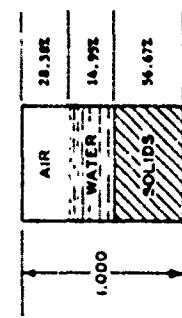
HYDROSTATIC PRESSURE, P, PSI

331

PROJECT: Geotechnical Institute of Technology, B. I.	
Contract No.: 10433-57-C-0051	
AREA:	SAMPLE NO.: 221
BORING NO.:	DATE:
DEPTH:	
DESCRIPTION: Medium sand clay.	
Constant Stress Ratio, 0.5	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT

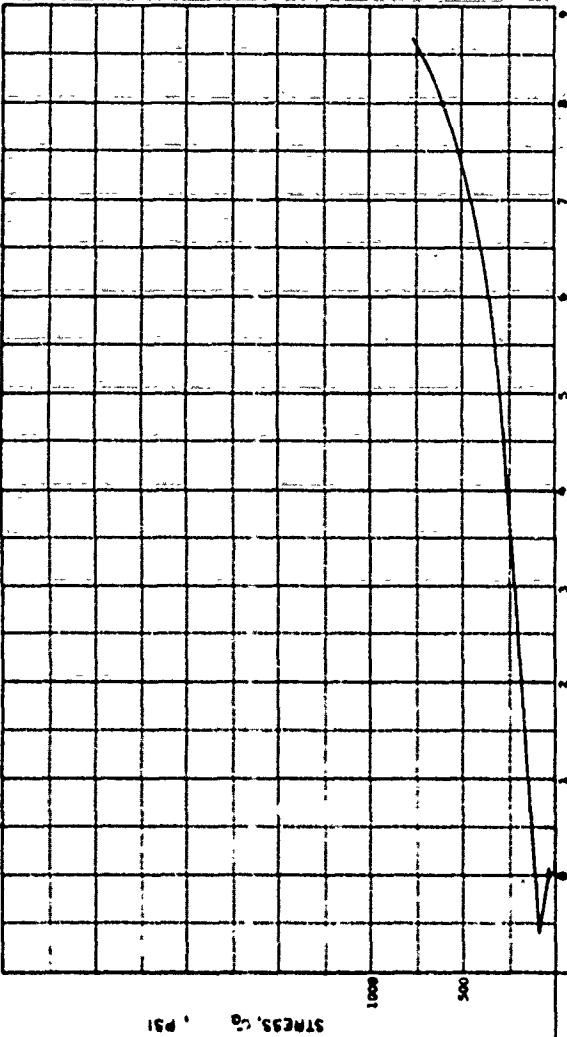
WATER CONTENT	W	9.77 %
VOID RATIO	e ₀	0.76
SATURATION	S ₀	34.49 %
DRY DENSITY	D ₀	95.47 PCF
WET DENSITY	γ	104.80 PCF
SPECIFIC GRAVITY	G ₀	2.70
SPECIMEN DIAMETER	D ₀	3.51 CM
SPECIMEN HEIGHT	H ₀	1.52 CM



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

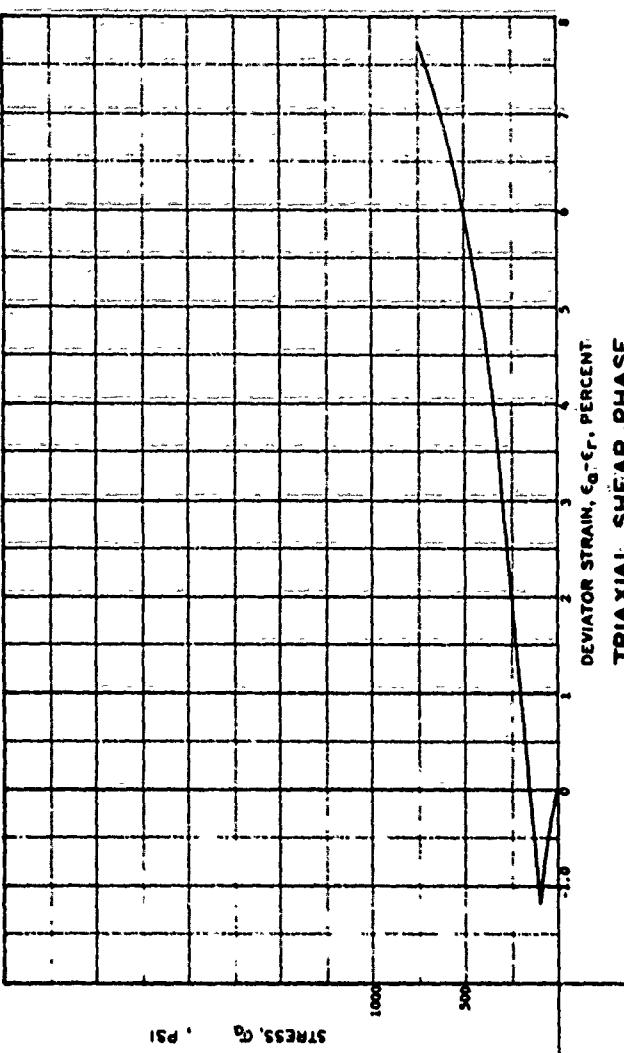
332



TRIAXIAL SHEAR PHASE

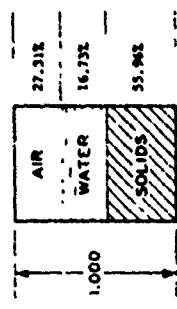
PROJECT George Washington University: 0002		
Contract No. DACA39-67-C-0031		
AREA	SAMPLE NO. 221	
BORING NO.	DATE	
DEPTH EL		
LL	PL	P1
DESCRIPTION Wetting Mill Creek		
Constant Stress Ratio, 0.9		
Saturation Pressure, 0.261		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



HYDROSTATIC COMPRESSION PHASE

WATER CONTENT	W	11.07	%
VOID RATIO	e ₀	0.79	
SATURATION	S _o	37.98	%
DRY DENSITY	γ _d	96.28	pcf
WET DENSITY	γ _w	106.72	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.69	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

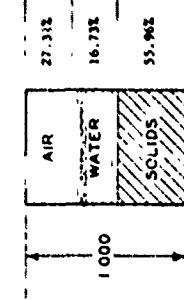


HYDROSTATIC PRESSURE, P, PSI

PROJECT	Concrete Institute of Technology, B-102		
Contract No.	B-102-1972-C-0031		
AREA			
BORING NO.	SAMPLE NO. 340		
DEPTH	DATE		
EL	LL	PL	P _f
	36	17	39
DESCRIPTION: Batching Mill Gley			
Concrete Strength Ratio, 0.9			
Initial Pressure, 0 psi			

VOLUMETRIC STRAIN, ΔV/V, PERCENT

WATER CONTENT	W	11.07 %
VOID RATIO	e_0	0.79
SATURATION	S_o	37.96 %
DRY DENSITY	γ_d	96.28pcf
WET DENSITY	γ	104.72pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.49 cm
SPECIMEN HEIGHT	H_o	7.62 cm



HYDROSTATIC COMPRESSION PHASE

STRESS, σ , psi

STRAIN, ϵ , percent

HYDROSTATIC PRESSURE, P , psi

334

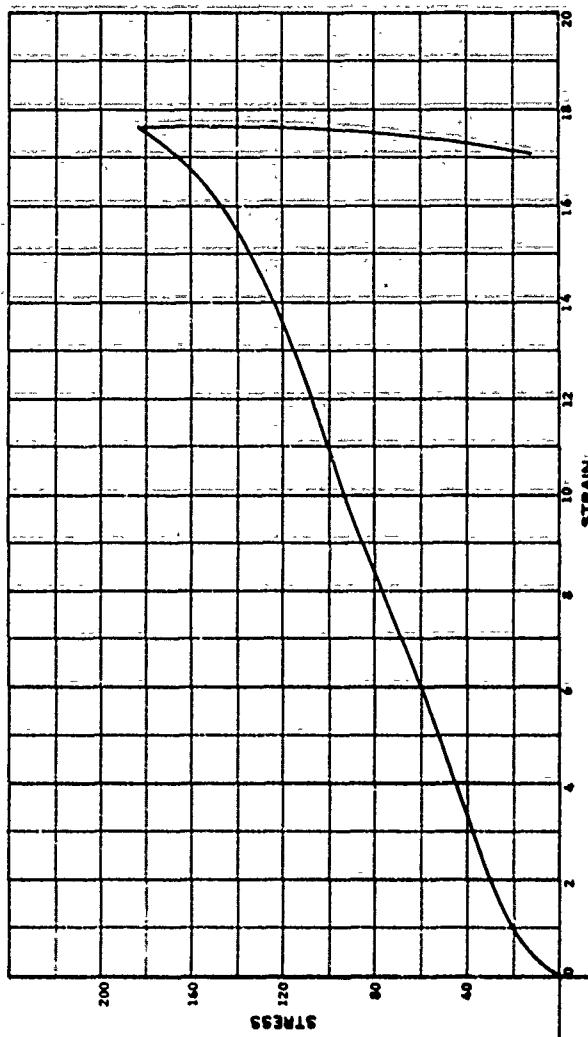
PROJECT: Georgia Institute of Technology A-92	
Contract No. DMO39-67-C-0031	
AREA:	
BORING NO.	SAMPLE NO. 340
DEPTH	DATE
EL.	
LL.	PL 17 P1 19
DESCRIPTION: Wachacha Mill Clay	
Constant Stress Ratio, 0.9	
Initial Pressure, 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

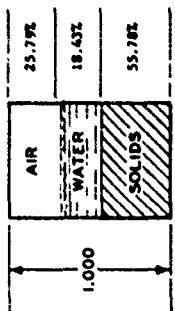
Group D

No-Lateral-Strain Tests

WATER CONTENT	W	12.26 %
VOID RATIO	e_0	0.79
SATURATION	S_o	41.68 %
DRY DENSITY	γ_d	93.96 PCF
WET DENSITY	γ_w	105.48 PCF
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.49 CM
SPECIMEN HEIGHT	H_0	7.62 CM



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

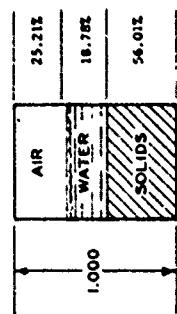
337

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PROJECT: Georgia Institute of Technology 9-602	
Contract No. MCA39-67-C-0051	
AREA:	
BORING NO.	SAMPLE NO. 228
DEPTH	DATE
EL	
LL	PL
	P1
	19
DESCRIPTION: Matching Siltyclay	
No Lateral Strain Triaxial Test	
Initial Confining Pressure 0 psi	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

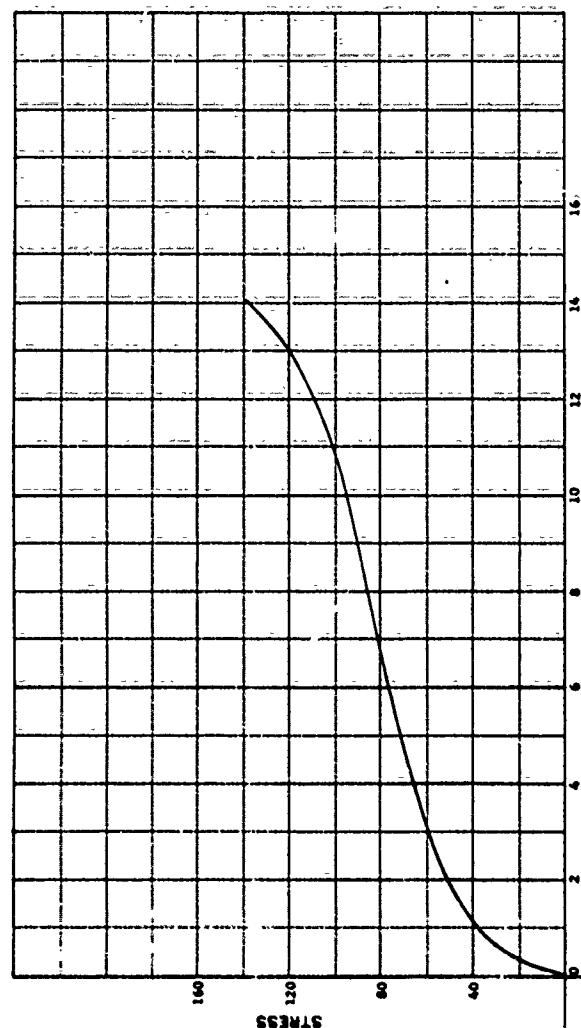
WATER CONTENT	W	12.42%
VOID RATIO	e ₀	0.79
SATURATION	S ₀	42.69%
DRY DENSITY	γ_d	94.36pcf
WET DENSITY	γ	106.08pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.47 CM
SPECIMEN HEIGHT	H ₀	7.64 CM



HYDROSTATIC COMPRESSION PHASE

STRESS

STRAIN

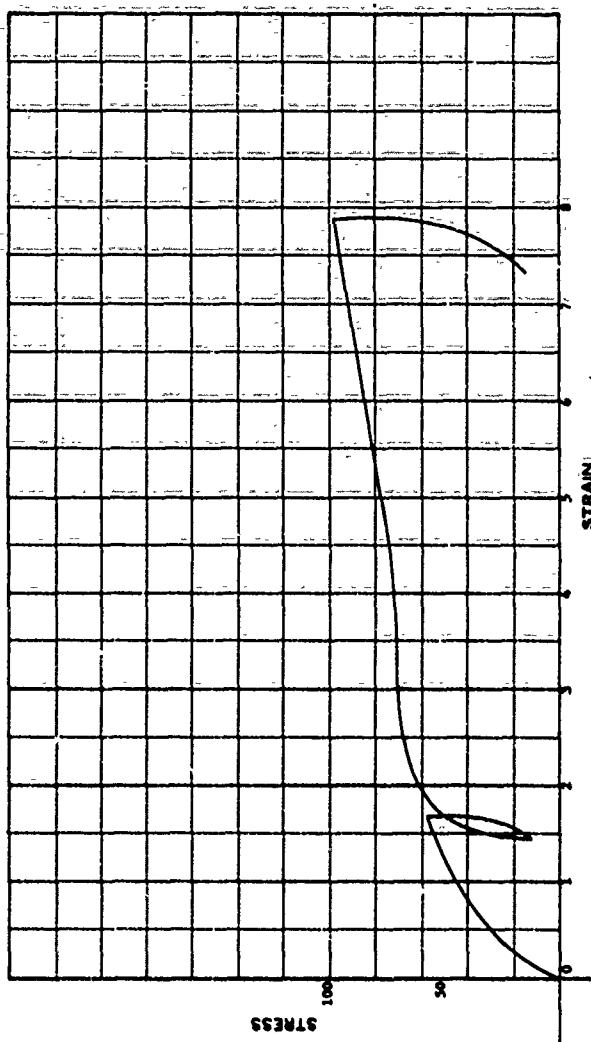


HYDROSTATIC PRESSURE, P, PSI

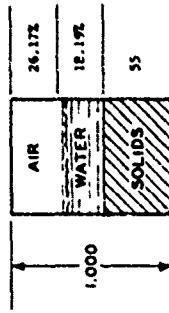
338

PROJECT	Georgia Institute of Technology B-602				
Contract No.	NCEC9-47-5-0051				
AREA					
BORING NO.	SAMPLE NO. 235	DATE			
DEPTH EL.					
LL	36	PL	17	PT	19
DESCRIPTION: Watch Hill Clay					
No lateral Strata, Intercalate					
Initial Confined Pressure, 0 psi					

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	12.11	%
VOID RATIO	e_0	0.80	
SATURATION	S_o	41.00	%
DRY DENSITY	γ_d	93.75	pcf
WET DENSITY	γ_w	105.00	pcf
SPECIFIC GRAVITY	G_s	2.70	
DIAMETER D ₀	D ₀	3.48	cm
SPECIMEN HEIGHT H ₀	H ₀	7.68	cm



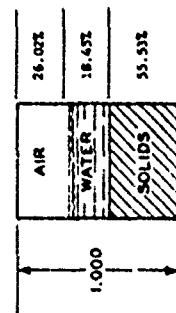
HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

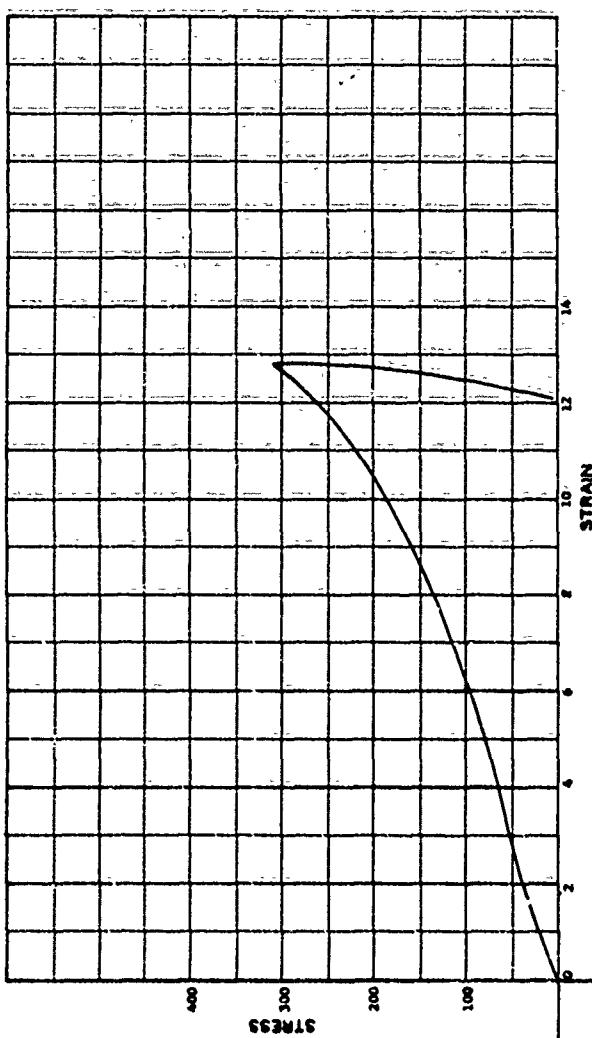
PROJECT Georgia Institute of Technology B-602	
Contract No. INCA9-07-C-0031	
AREA	SAMPLE NO. 261
BORING NO.	
DEPTH	DATE
EL.	
LL	PL 17 PI 19
DESCRIPTION Watch Hill Clay	
No Lateral Strain Triaxial Test, Initial Confining Pressure 0.251	
Cycle Shear	

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.30 %
VOID RATIO	e_0	0.80
SATURATION	S_o	41.69 %
DRY DENSITY	γ_d	93.56pcf
WET DENSITY	γ_w	105.07pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_0	3.48 cm
CONFIDN HEIGHT	H_0	7.62 cm



HYDROSTATIC COMPRESSION PHASE



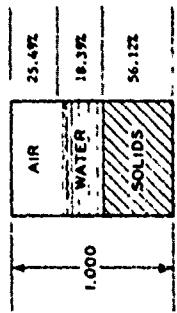
HYDROSTATIC PRESSURE, psi, PSI

340

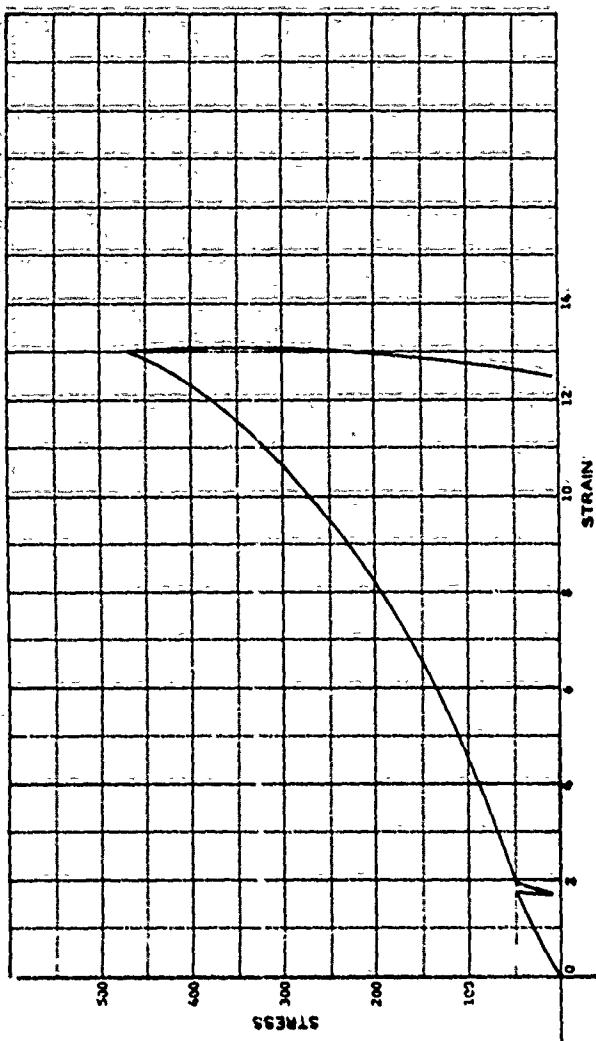
PROJECT: Geotechnical Institute of Technology 3-602		
Contract No. DUCAS 67-C-0051		
AREA:		
BORING NO.:	SAMPLE NO.: 224	
DEPTH E.L.:	DATE:	
L.L. 36	PL. 17	PI. 19
DESCRIPTION: Witching Hill Clay		
No Lateral Strain Triaxial Test		
Initial Confining Pressure, 100 psi		

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.13	%
VOID RATIO	e ₀	0.78	
SATURATION	S ₀	61.90	%
DRY DENSITY	γ _d	96.55	pcf
WET DENSITY	γ _w	106.02	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	2.49	cm
SPECIMEN HEIGHT	H ₀	7.55	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

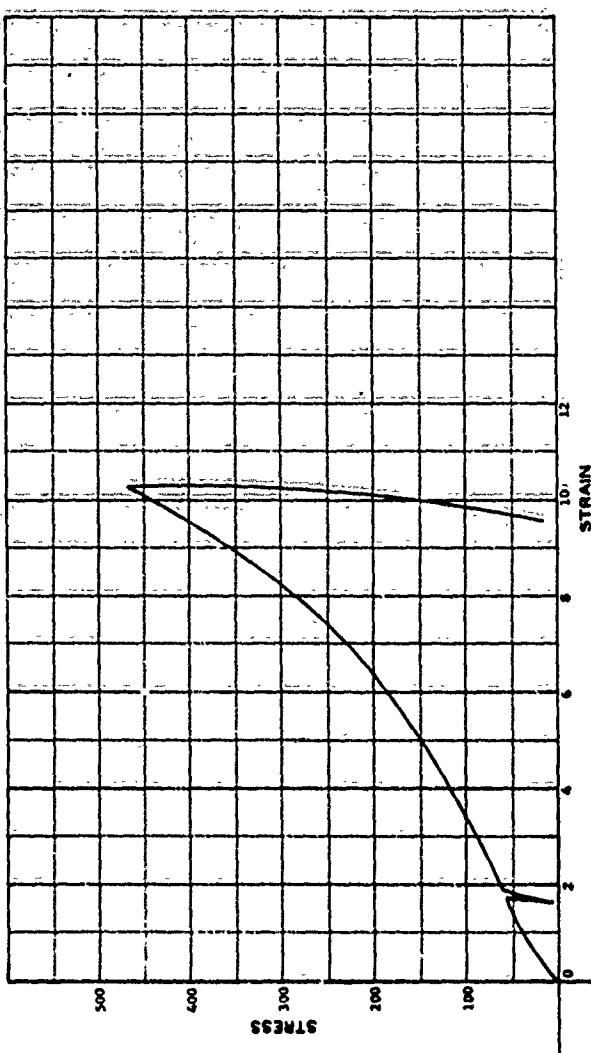
342

PROJECT: Georgia Institute of Technology I-692			
Contract No. DACA39-67-C-0051			
AREA	SAMPLE NO.	DATE	
BORING NO.	203		
EL.			
LL.	36	PL	17
			P1
			19

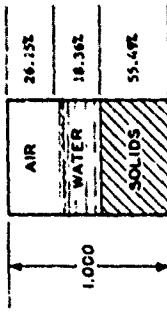
DESCRIPTION: Wetting Mill-Clay

No. Lateral Strain, Triaxial Test. Initial Confining Pressure: 100 psi.
Cyclic Shear

VOLUMETRIC STRAIN, ΔV/V₀, PERCENT



WATER CONTENT	W	12.26 %
VOID RATIO	e ₀	0.80
SATURATION	S _o	41.26 %
DRY DENSITY	γ_d	93.49pcf
WET DENSITY	γ	105.95pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.64 cm



HYDROSTATIC COMPRESSION PHASE

HYDROSTATIC PRESSURE, P, PSI

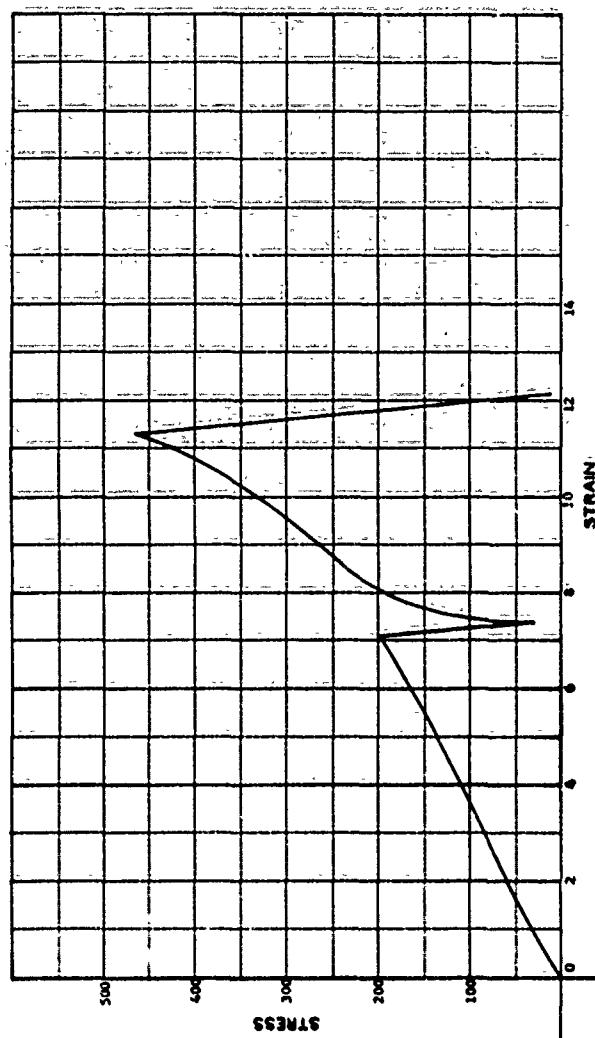
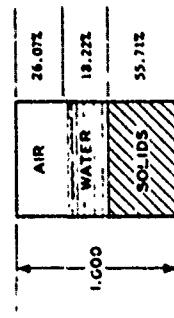
341

PROJECT: General Institute of Technology S-602:				
Core Site No.: DMCA9-67-C-0031:				
AREA	SAMPLE NO.: 232			
BORING NO.	DEPTH			
EL	DATE			
LL	PL	17	P ₁	19

DESCRIPTION: Wetting Mill Clay
No Lateral Strain Triaxial Test. Initial Confining Pressure 100 psi
Cycle Shear

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

WATER CONTENT	W	12.11	%
VOID RATIO	e_0	0.90	
SATURATION	S_o	41.13	%
DRY DENSITY	γ_d	93.65	pcf
WET DENSITY	γ_w	105.22	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.49	cm
SPECIMEN HEIGHT	H_o	7.62	cm



HYDROSTATIC COMPRESSION PHASE

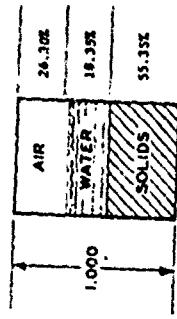
HYDROSTATIC PRESSURE, P, PSI

PROJECT	Georgia Institute of Technology 3.602
COLLECTOR ID.	DCAS917-C-0051
AREA	
BORING NO.	SAMPLE NO. 245
DEPTH	DATE
EL	
L.L.	P.L. 17 P1 19

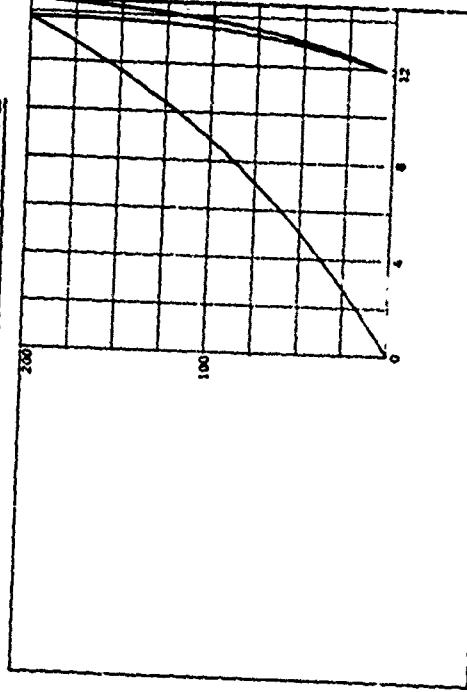
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

DESCRIPTION Wetland Hill Clay
See Lateral Strain Test, Initial Confining Pressure 100 psi
Cycle Shear

WATER CONTENT	W	12.28	%
VOID RATIO	e ₀	0.81	
SATURATION	S ₀	41.11	%
DRY DENSITY	D ₀	93.25	pcf
WET DENSITY	D _w	106.71	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _o	3.69	cm
SPECIMEN HEIGHT	H ₀	7.62	cm

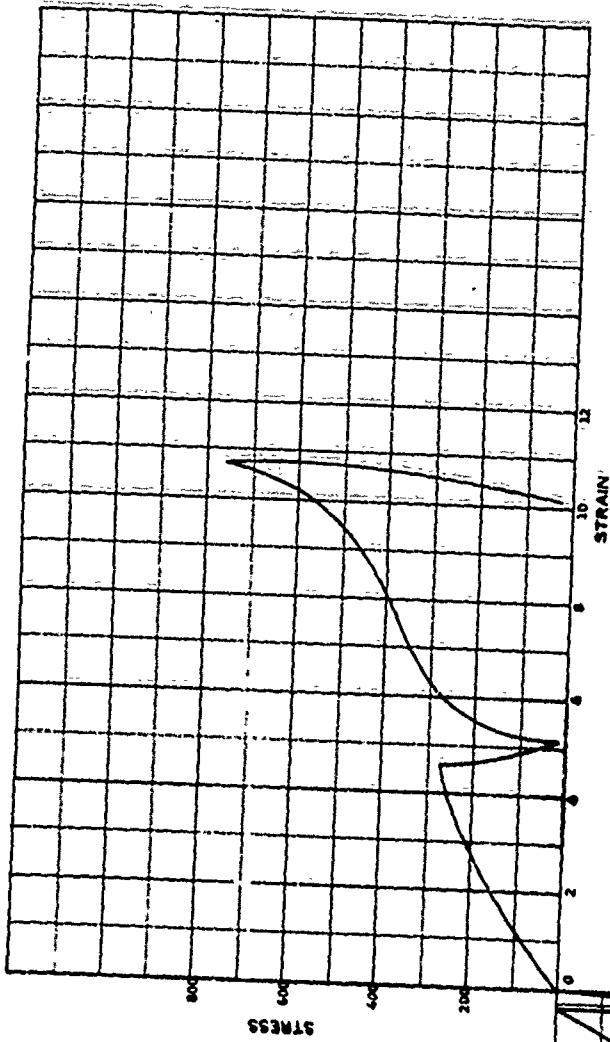


HYDROSTATIC COMPRESSION PHASE

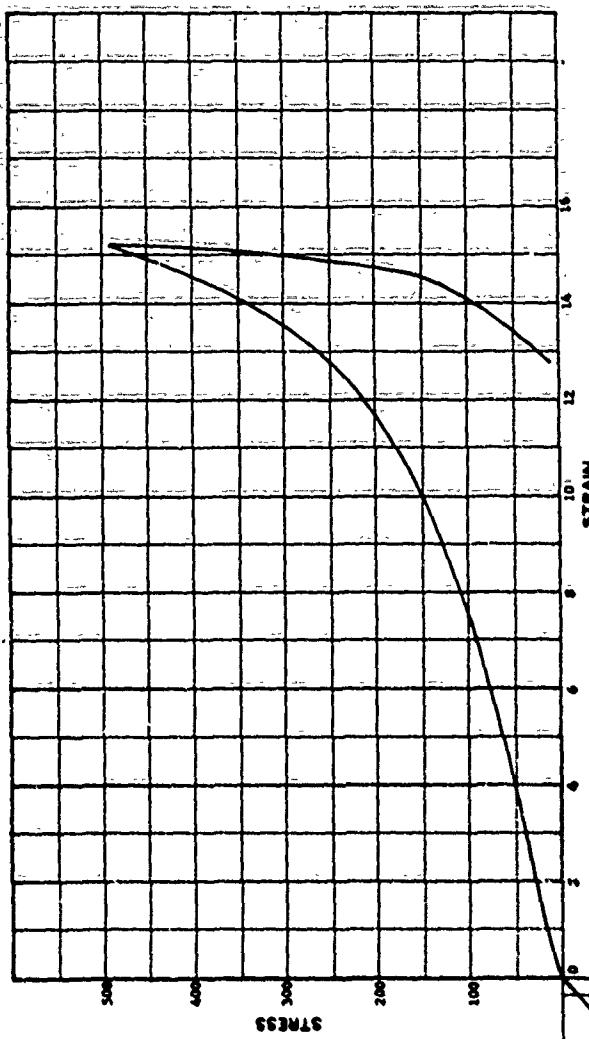


VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

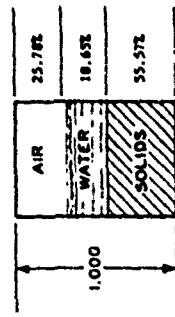
HYDROSTATIC PRESSURE, P, PSI



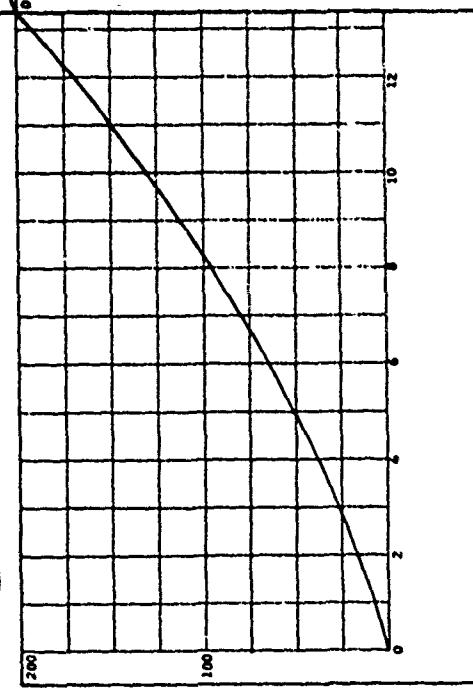
PROJECT	Georgia Institute of Technology B-602		
Contract No.	EMCA59-67-C-0021		
AREA			
BORING NO.	SAMPLE NO. 229		
DEPTH EL	DATE		
LL	PL	17	PL 19
DESCRIPTION <u>Messin Hill clay</u>			
No lateral strain Triaxial Test, Initial Confining Pressure 200/201			
Cycle Shear, Cycle Compression.			



WATER CONTENT	W	12.63 %
VOID RATIO	e_0	0.80
SATURATION	S_o	41.98 %
DRY DENSITY	γ_d	93.63pcf
WET DENSITY	γ_w	105.27pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D_o	3.69 cm
SPECIMEN HEIGHT	H_o	7.64 cm



HYDROSTATIC COMPRESSION PHASE



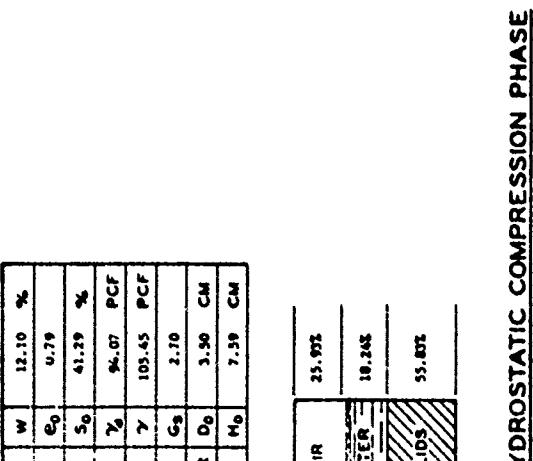
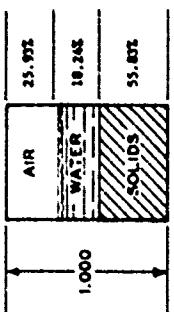
HYDROSTATIC PRESSURE, P, PSI

345

PROJECT SANTA FE RAILROAD, SECTION 3 E. 50.	
Contract No. 24CA39-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 236
DEPTH EL.	DATE
LL. 36	PL. 17
	P1 19

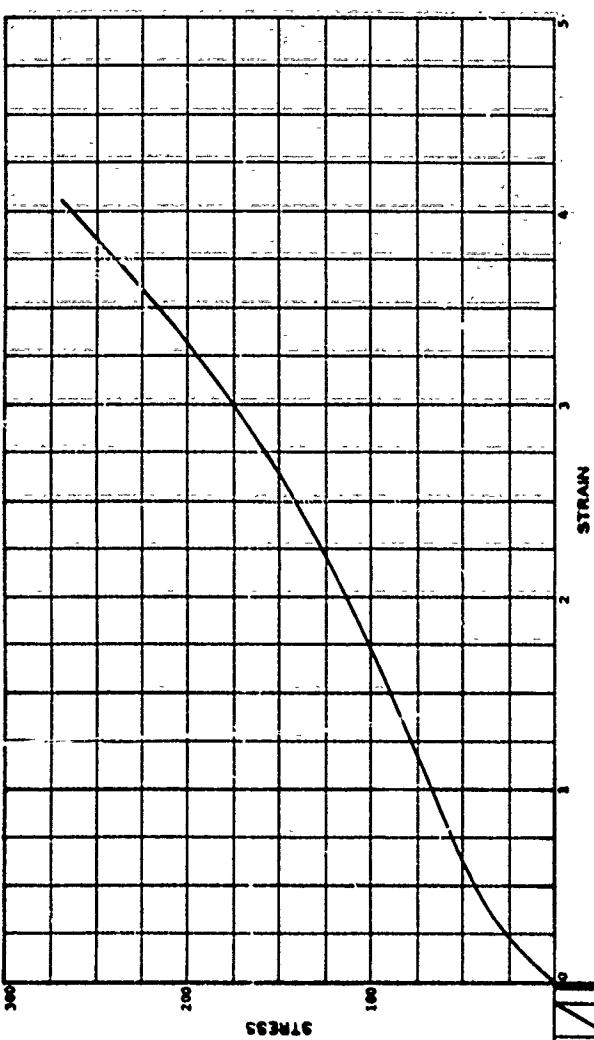
DESCRIPTION: Weathered Shallow Clay
No Lateral Strain Triaxial Test
Initial Confining Pressure, 100 psi

WATER CONTENT	W	12.10	%
VOID RATIO	e_0	0.79	
SATURATION	S_o	41.29	%
DRY DENSITY	γ_d	96.07	pcf
WET DENSITY	γ	105.45	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.59	cm



HYDROSTATIC PRESSURE, P, PSI

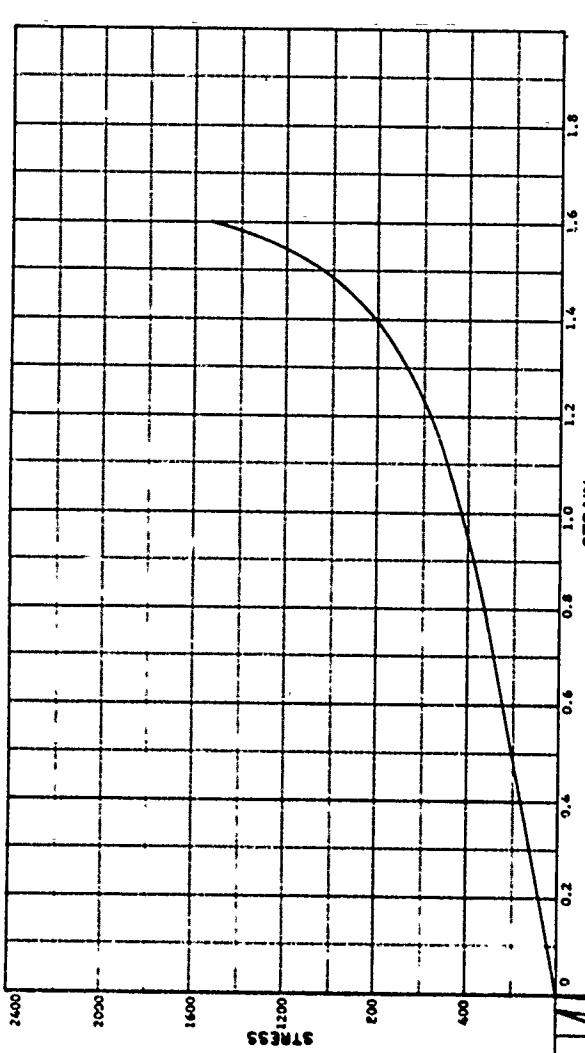
346



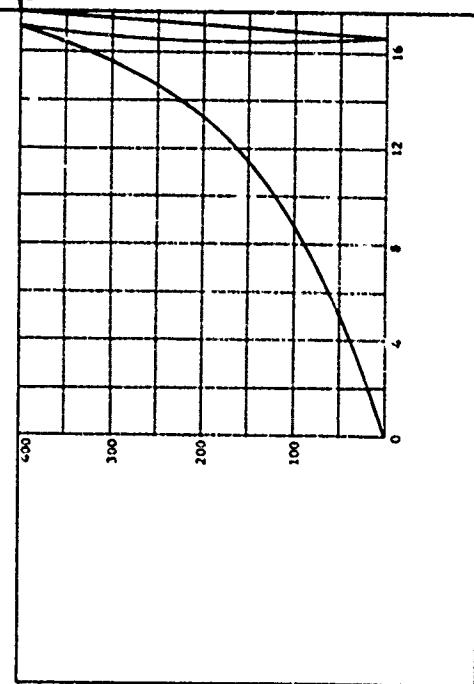
PROJECT Georgia Institute of Technology, B-62	
Contract No. DMAE3-67-C-0021	
AREA	
PORING NO.	SAMPLE NO.: 267
DEPTH	DATE
EL.	
LL	PL
16	17
19	PT.
DESCRIPTION: Matching Hill Clay	
No-Lateral Strain Triaxial Test	
Initial Confining Pressure, 200 psi. Cyclic Compression.	

VOLMETRIC STRAIN, ΔV/V₀, PERCENT

WATER CONTENT	W	12.11	%
VOID RATIO	e_0	0.80	
SATURATION	S_o	41.04	%
DRY DENSITY	γ_d	93.16	pcf
WET DENSITY	γ	105.12	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.50	cm
SPECIMEN HEIGHT	H_o	7.61	cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

347

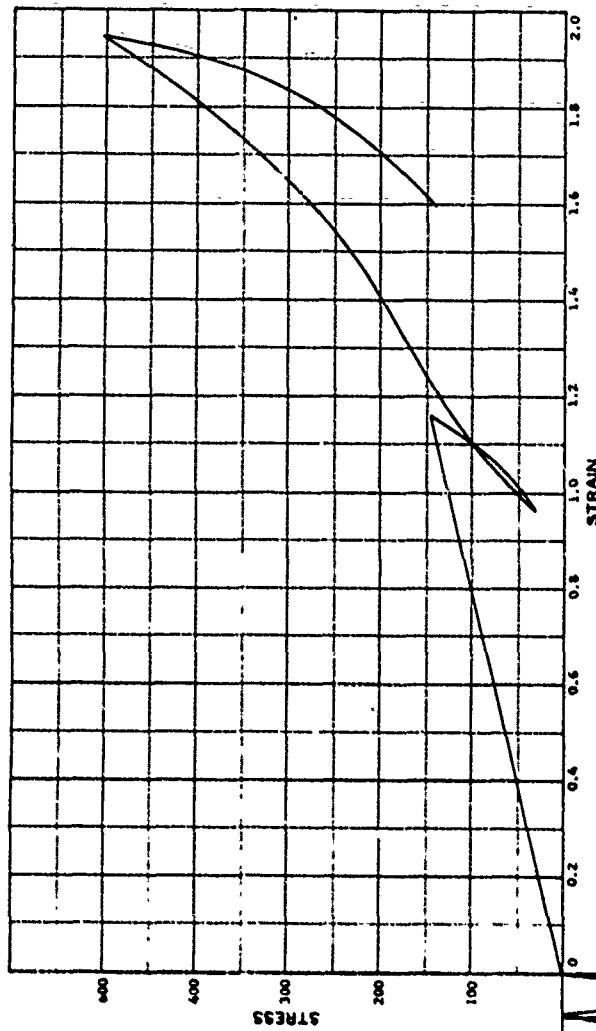
PROJECT <u>Georgia Institute of Technology I-602</u>	
Contract No. <u>DMCA39-67-C-0031</u>	
AREA	
BORING NO.	SAMPLE NO. <u>246</u>
DEPTH	DATE
EL.	
LL.	PL. 17
	P1 19

DESCRIPTION Watchung Hill Clay - No Lateral Strain Test

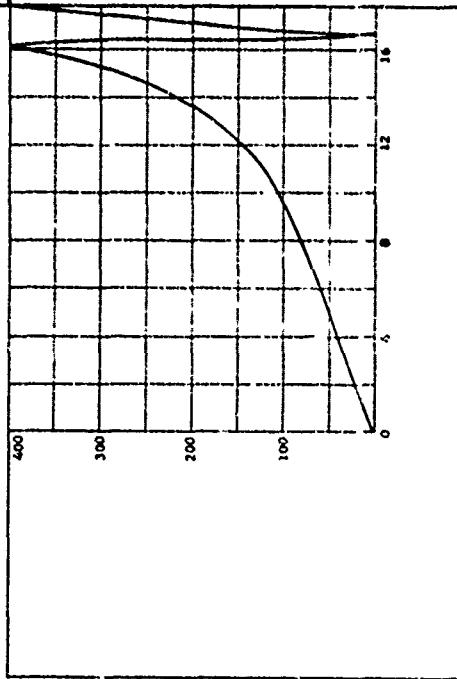
Initial Confining Pressure 400 psi.

Cycle Compression

VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT



WATER CONTENT	W	12.26	%
VOID RATIO	e _o	0.61	
SATURATION	s _o	40.86	%
DRY DENSITY	γ_d	93.02	PCF
WET DENSITY	γ	104.46	PCF
SPECIFIC GRAVITY	-	-	-
SPECIMEN DIAMETER	D _o	2.70	-
SPECIMEN HEIGHT	H _o	3.50	CM

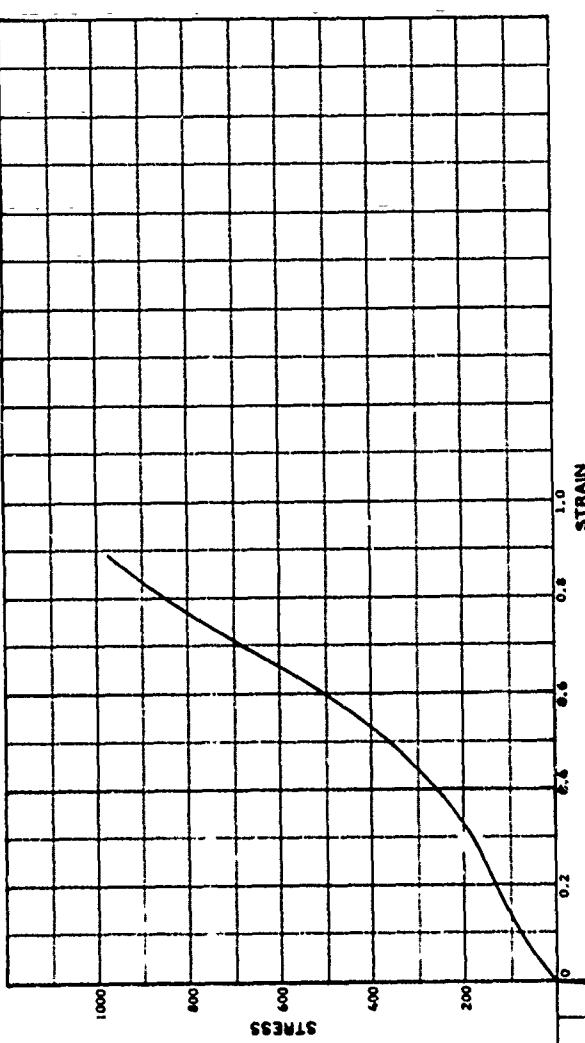
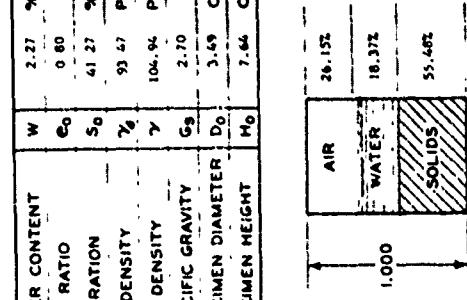


HYDROSTATIC PRESSURE, p. P51

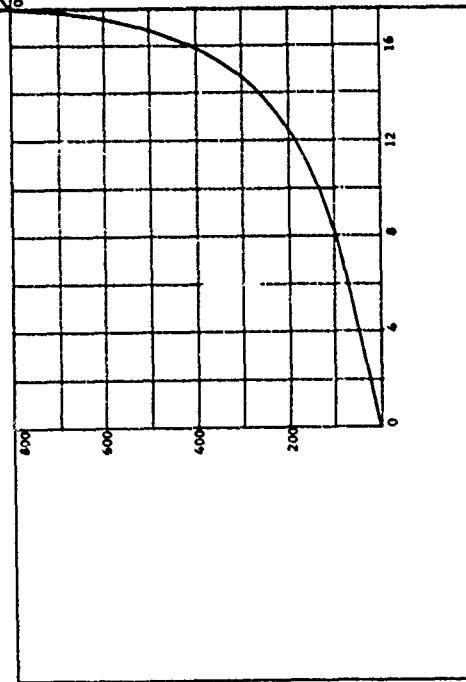
348

PROJECT	Georgia Institute of Technology S-602		
Contract No.	MAC139-67-C-0051		
AREA			
BORING NO.	SAMPLE NO. 281		
DEPTH	DATE		
EL.	36	PL	17
	P1		19
DESCRIPTION <u>Muchler Hill Clay</u>			
No Lateral Strain Triaxial Test. Initial Confining Pressure 400 psf			
Cycle Shear, Cycle Compression			

WATER CONTENT	W	2.27	%
VOID RATIO	e_0	0.60	
SATURATION	S_o	41.27	%
DRY DENSITY	γ_d	93.47	pcf
WET DENSITY	γ	104.94	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.69	cm
SPECIMEN HEIGHT	H_o	7.64	cm



HYDROSTATIC COMPRESSION PHASE

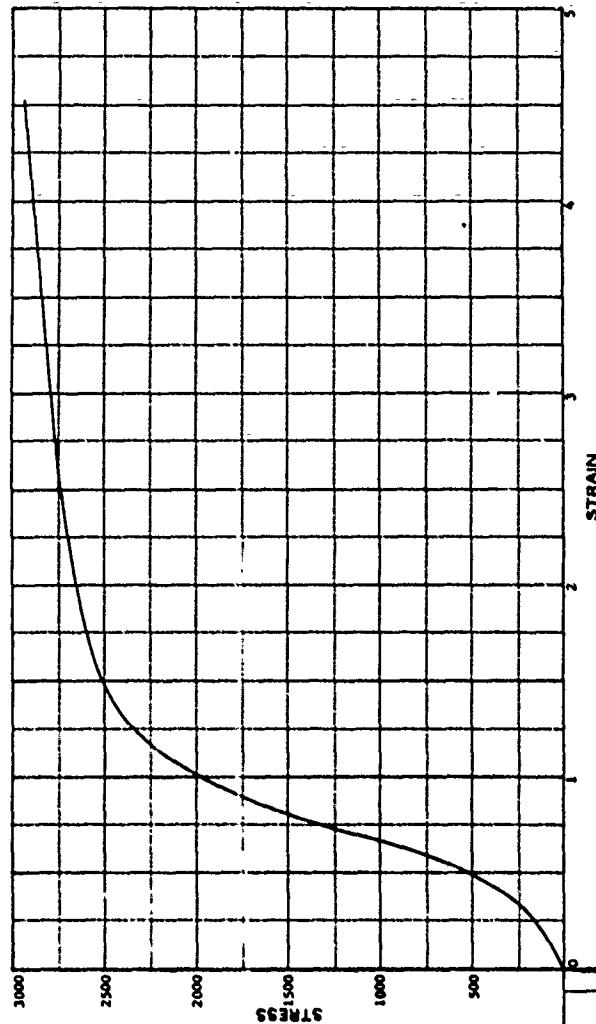
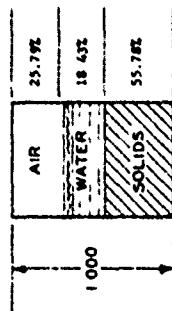


VOLUME STRAIN, $\Delta V/V_0$, PERCENT

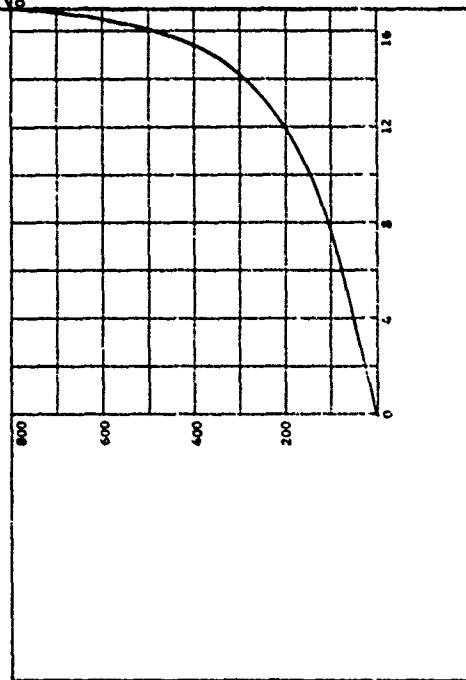
HYDROSTATIC PRESSURE, P, PSI

PROJECT <u>Georgia Institute of Technology B-602</u>	
Contract No. DMAA9-67-C-0051	
AREA	
BORING NO.	SAMPLE NO. 223
DEPTH EL	DATE
LL 36	PL 17
	P1 19
DESCRIPTION <u>Mechanistic Clay</u>	
No Lateral Strain Triaxial Test	
Initial Confined Pressure, 800 psi	

WATER CONTENT	W	12.24 %
VOID RATIO	e ₀	0.79
SATURATION	S ₀	41.64 %
DRY DENSITY	γ _d	93.96pcf
WET DENSITY	γ _w	105.48pcf
SPECIFIC GRAVITY	G _s	2.70
SPECIMEN DIAMETER	D ₀	3.48 cm
SPECIMEN HEIGHT	H ₀	7.64 cm



HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

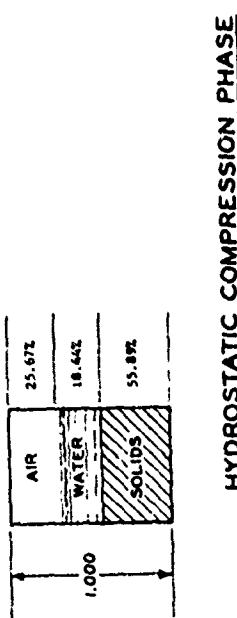
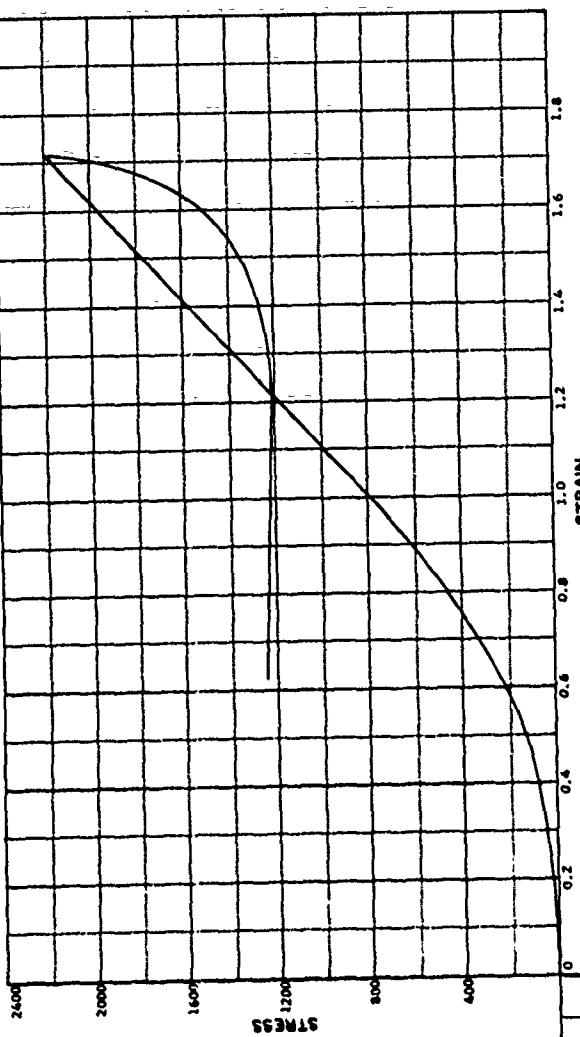
350

PROJECT	State Institute of Technology, B-402
Contract No.	DECAL-67-6-0051
AREA	
BORING NO.	SAMPLE NO. 225
DEPTH	DATE
EL	
LL	PL
36	17
	P1
	19

DESCRIPTION *Machling Hill Clay*
No Lateral Strain Triaxial Test
Initial Confines Pressure, 500 psi

Initial Confines Pressure, 500 psi

WATER CONTENT	W	12.22	%
VOID RATIO	e ₀	0.19	
SATURATION	s ₀	41.80	%
DRY DENSITY	γ_d	94.17	pcf
WET DENSITY	γ_w	105.67	pcf
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.50	cm
SPECIMEN HEIGHT	H ₀	7.63	cm

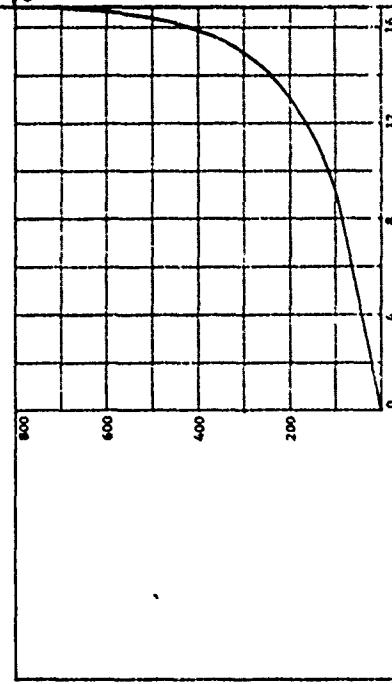
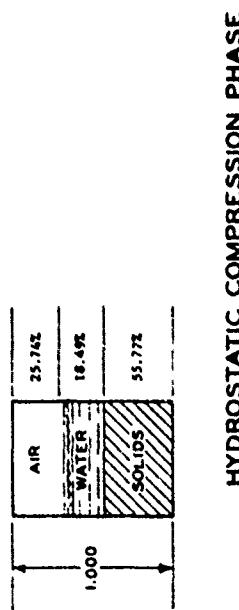
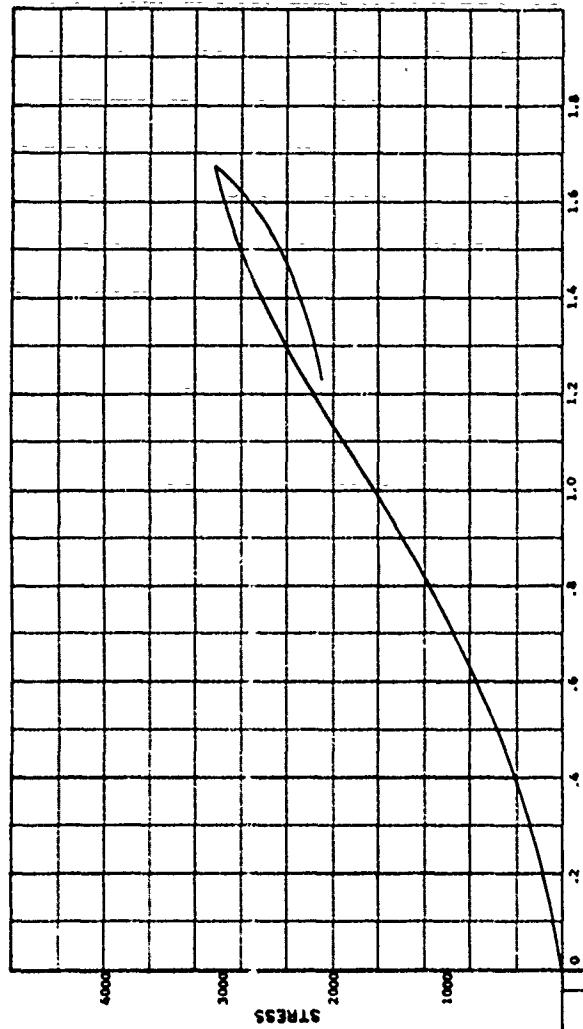


HYDROSTATIC PRESSURE, P, PSI

351

PROJECT Georgia Institute of Technology B-602	
Contract No. DACA39-67-C-0031	
AREA	SAMPLE NO. 226
BORING NO.	DATE
DEPTH	
EL	
LL	P.L. 17 P1 19
DESCRIPTION Watchin Mill Clay	
No Lateral Strain Potential Test	
Initial Confining Pressure, 800 psi	

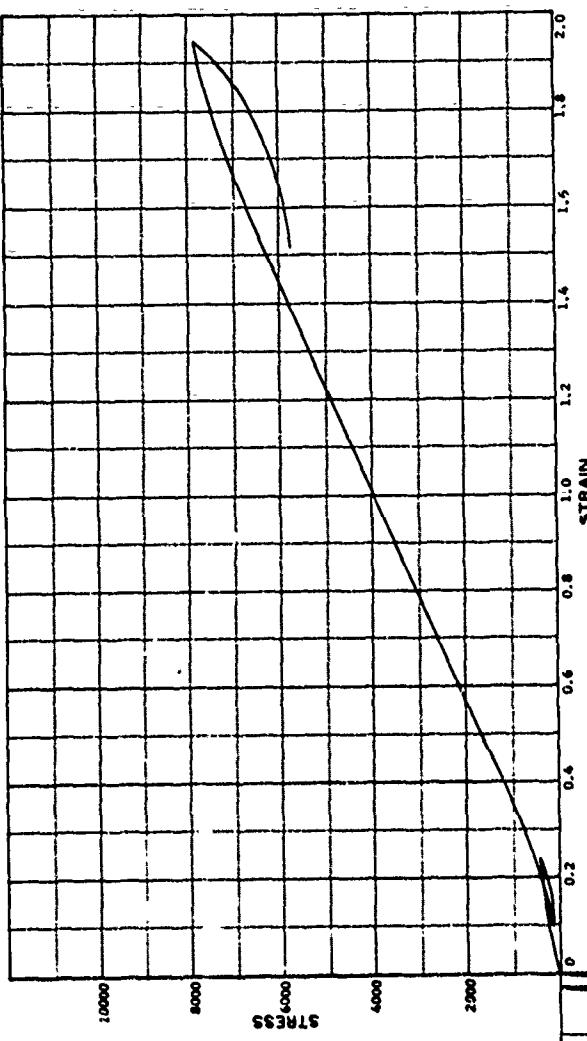
WATER CONTENT	W	12.28	%
VOID RATIO	e_0	0.79	
SATURATION	S_o	41.80	%
DRY DENSITY	γ_d	93.97	pcf
WET DENSITY	γ_w	105.50	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_o	3.49	cm
SPECIMEN HEIGHT	H_o	7.59	cm



HYDROSTATIC PRESSURE, P, PSI

352

PROJECT Georgia Institute of Technology S-602	
Contract No. DACA39-67-C-0031	
AREA	
ROTHING NO.	SAMPLE NO. 27
DEPTH	DATE
EL.	
LL 36	PL 17 P1 19
DESCRIPTION <u>WEATHERED KILL CLAY</u>	
No Lateral Strain Triaxial Test	
Initial Confining Pressure, 300 psi	



WATER CONTENT	W	12.23	%
VOID RATIO	e ₀	0.80	
SATURATION	S _o	61.15	%
DRY DENSITY	γ_d	92.49	PCF
WET DENSITY	γ_w	106.92	PCF
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D ₀	3.49	CM
SPECIMEN HEIGHT	H ₀	7.63	CM

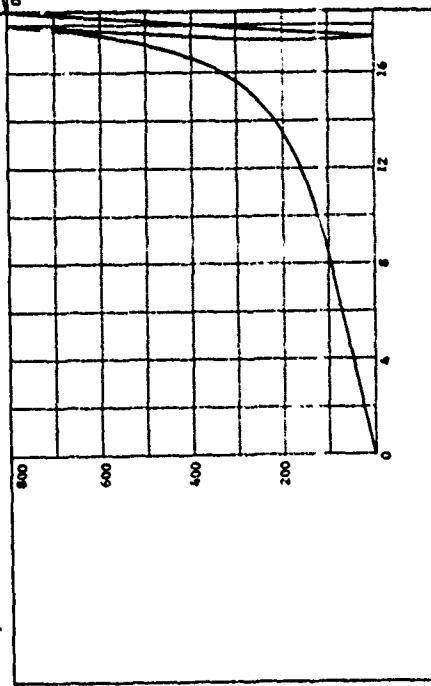
1.000

AIR 26.1%

WATER 18.37%

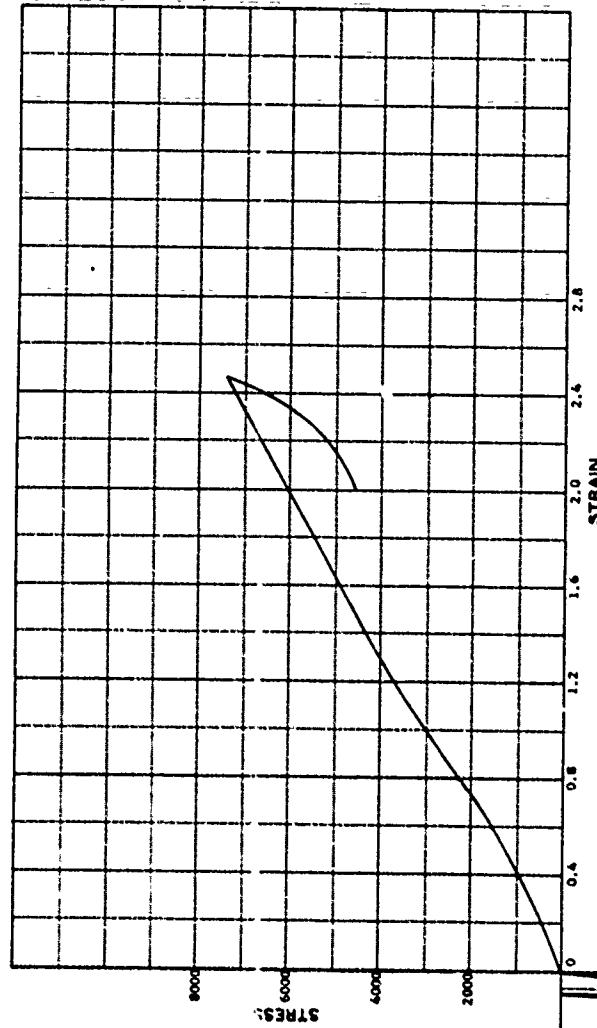
SOLIDS 51.4%

HYDROSTATIC COMPRESSION PHASE

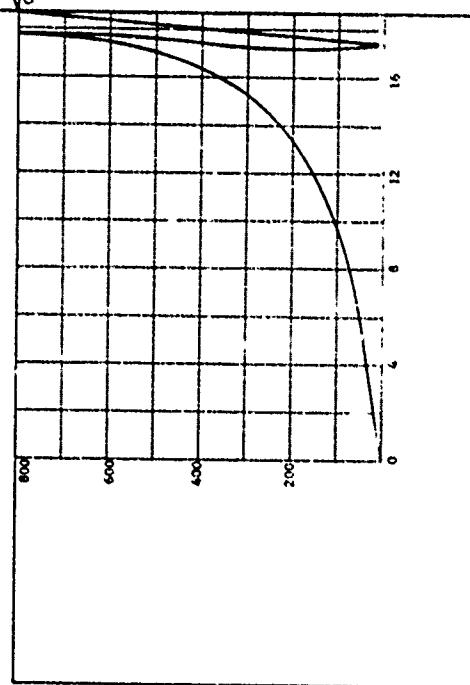


PROJECT <i>Geotechnical Institute of Technology B-603</i>	
Contract No. DMCA9-67-C-0051	
TEST #	
TEST NO.	SAMPLE NO. 239
DEPTH EL	DATE
LL	P _L 17
	P _T 19
DESCRIPTION <i>Machias Hill Clay</i>	
No Lateral Strain Triaxial Test, Initial Confining Pressure 800 psi	
Cycle Shear, Cycle Compression	

WATER CONTENT	W	12.65 %
VOID RATIO	e ₀	0.79
SATURATION	s ₀	42.40 %
DRY DENSITY	γ_d	93.96pcf
WET DENSITY	γ	105.67pcf
SPECIFIC GRAVITY	G_s	2.70
SPECIMEN DIAMETER	D ₀	3.49 cm
SPECIMEN HEIGHT	H ₀	7.60 cm



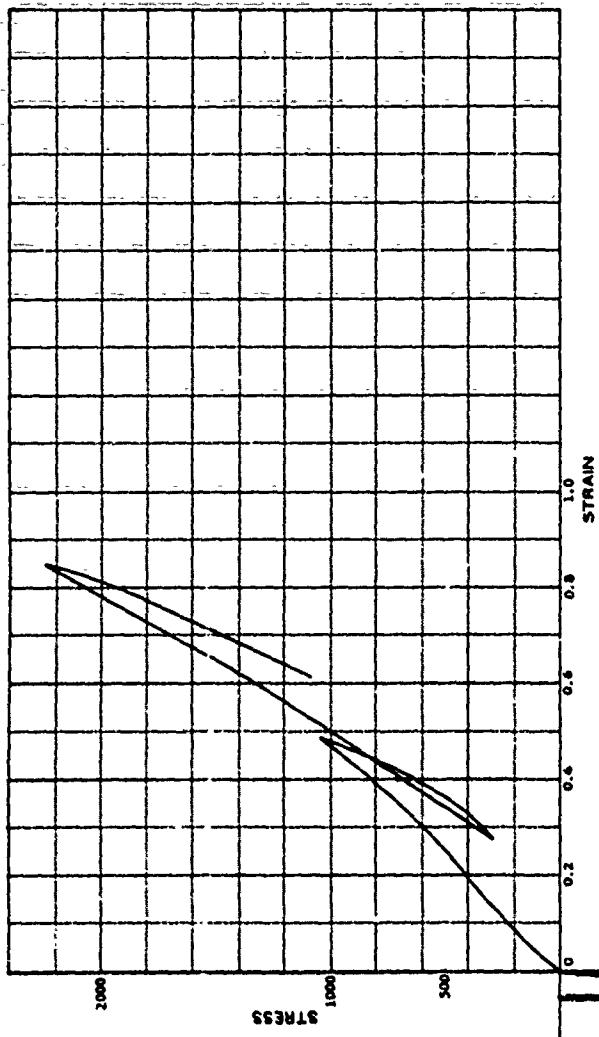
HYDROSTATIC COMPRESSION PHASE



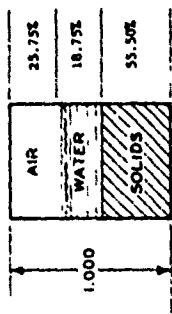
VOLUMETRIC STRAIN, $\Delta V/V_0$, PERCENT

PROJECT Georgia Institute of Technology E-602.			
Contract No. DMA39-67-C-0031.			
AREA			
BORING NO.	SAMPLE NO. 270	DATE	
LL	16	PL 17	P1 19
DESCRIPTION Witchita Hill Clay - No Lateral Strain Triaxial Test			
Initial Confining Pressure, 800 psi			
Cycle Compression			

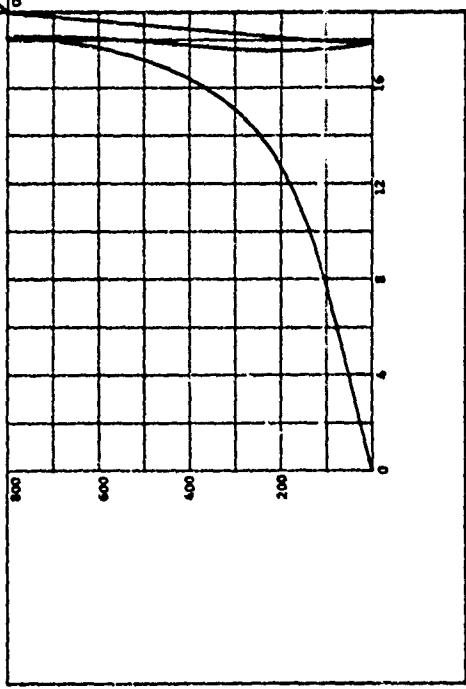
HYDROSTATIC PRESSURE, P, PSI



WATER CONTENT	W	12.51 %
VOID RATIO	e_0	0.40
SATURATION	S_o	42.13 %
DRY DENSITY	γ_d	91.31 PCF
WET DENSITY	γ	105.21 PCF
SPECIFIC GRAVITY	G_s	2.10
SPECIMEN DIAMETER	D_o	3.49 CM
SPECIMEN HEIGHT	H_o	7.62 CM



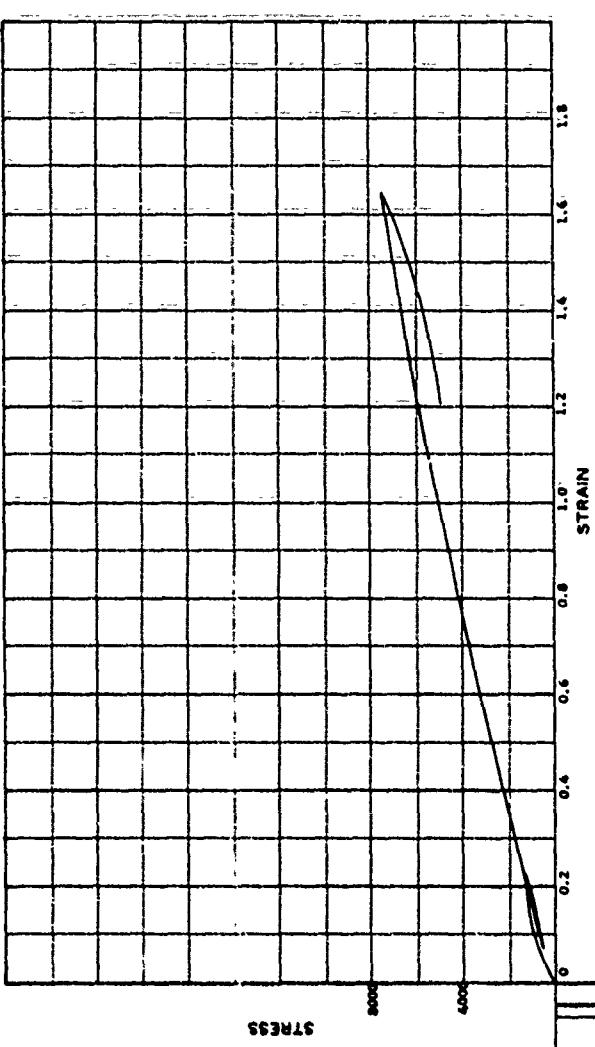
HYDROSTATIC COMPRESSION PHASE



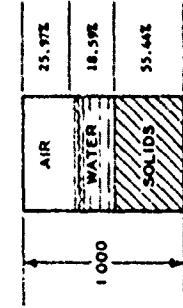
HYDROSTATIC PRESSURE, P, PSI

355

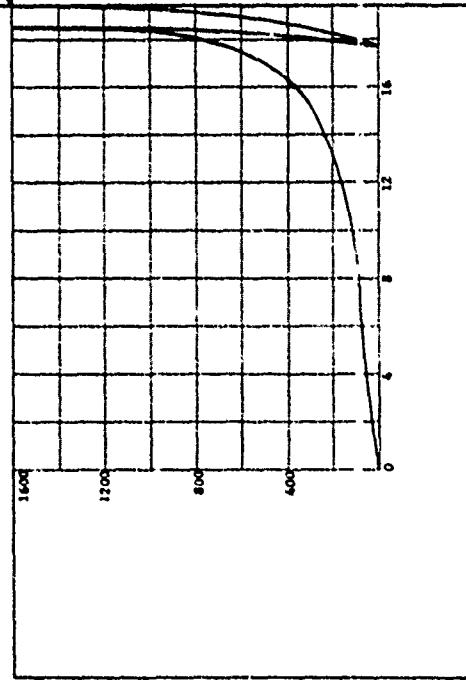
PROJECT Georgia Institute of Technology 3-602	
Contract No. DMA39-67-C-0051	
AREA	SAMPLE NO. 202
EL.	DATE
L.L. 36	P.L. 17
	P1 19
DESCRIPTION Weathering Mill Clay	
no Lateral Strain Triaxial Test, Initial Confining Pressure 800 psi	
Cycle Shear, Cycle Compression	



WATER CONTENT	W	12.42	%
VOID RATIO	e_0	0.80	
SATURATION	S_0	41.22	%
DRY DENSITY	γ_d	93.40	pcf
WET DENSITY	γ_w	105.00	pcf
SPECIFIC GRAVITY	G_s	2.70	
SPECIMEN DIAMETER	D_0	3.50	cm
SPECIMEN HEIGHT	H_0	7.62	cm



HYDROSTATIC COMPRESSION PHASE

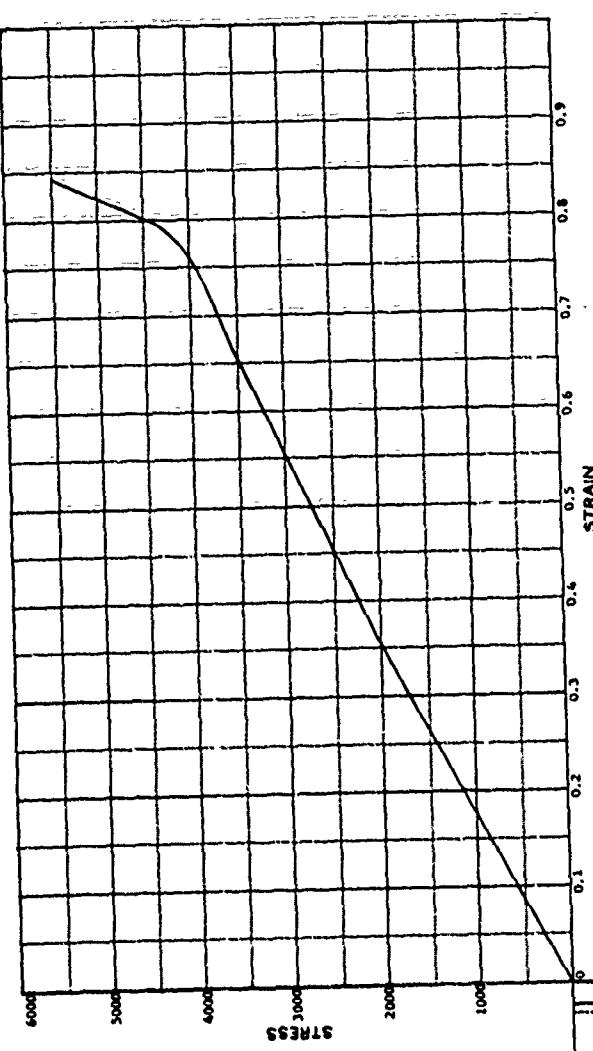


HYDROSTATIC PRESSURE, P, PSI

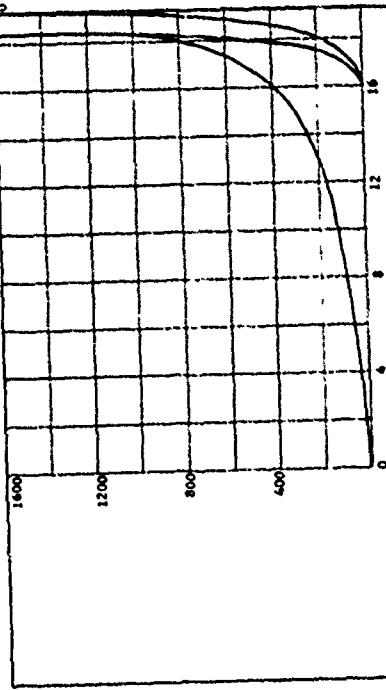
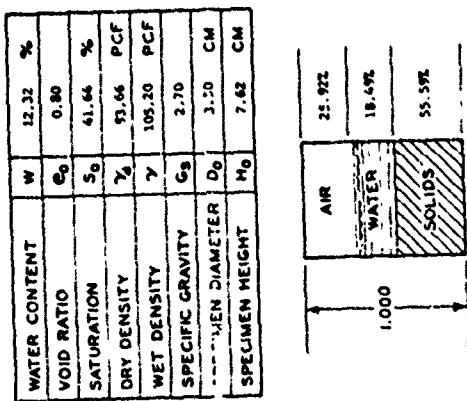
356

PROJECT Georgia Institute of Technology B-002			
Contract No. DACA19-67-C-0031			
AREA	SAMPLE NO. 27:		
	DEPTH	DATE	
EL.	SL	PL	P1
DESCRIPTION: <u>Specimen Millimeter</u>			
No Lateral Strain Triaxial Test, Initial Confined Pressure, 1600 psi			
Cycle Shear, Cycle Compression			

VOLUME STRAIN, $\Delta V/V_0$, PERCENT



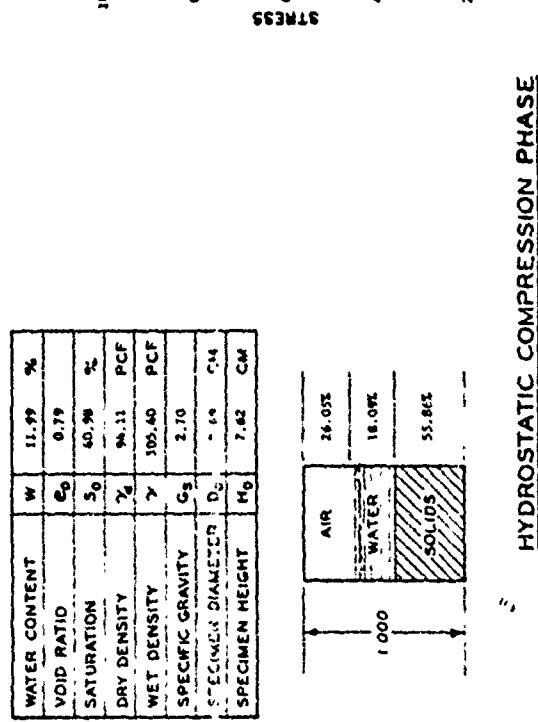
HYDROSTATIC COMPRESSION PHASE



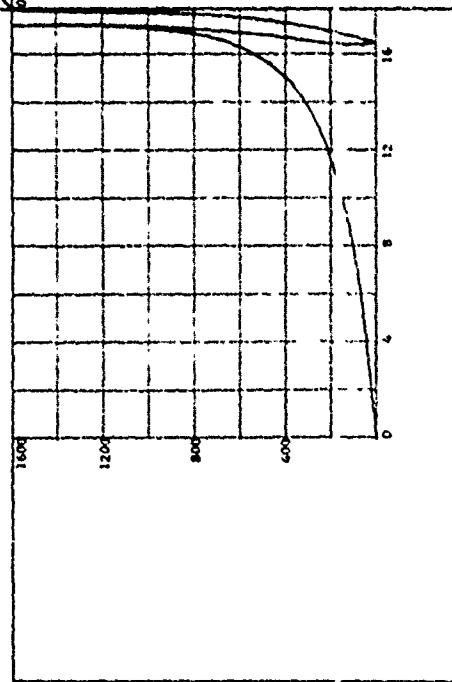
p_{HD} = HYDROSTATIC PRESSURE, p, PSI

PROJECT		Geotechnical Institute of Technology B-602	
Contract No.		DMARD-67-C-0031	
AREA			
BORING NO.		SAMPLE NO.	323
DEPTH		DATE	
EL.			
LL.	36	PL. 17	PT. 19
DESCRIPTION			
Soiltech Mill Clay			
No lateral strain Triaxial Test - Initial Confining Pressure, 1600 psi			
Cycle Compression			

WATER CONTENT	W	11.99	%
VOID RATIO	e ₀	0.79	
SATURATION	S ₀	40.96	%
DRY DENSITY	D _d	2.11	PCF
WET DENSITY	D _w	105.40	PCF
SPECIFIC GRAVITY	G _s	2.70	
SPECIMEN DIAMETER	D _s	1.6	cm
SPECIMEN HEIGHT	H _s	7.62	cm

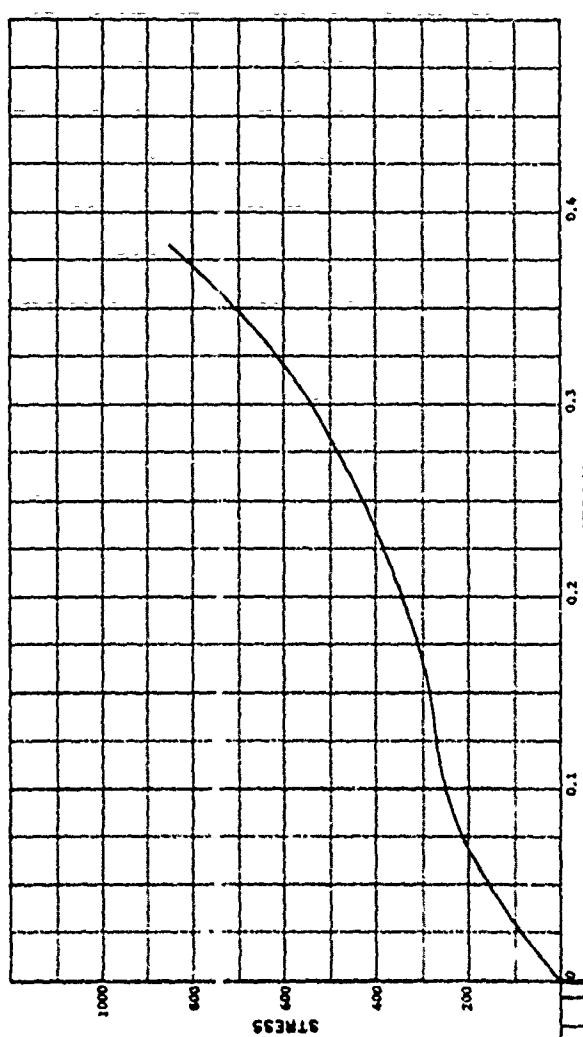


HYDROSTATIC COMPRESSION PHASE



HYDROSTATIC PRESSURE, P, PSI

358



STRAIN

STRESS, PSI

PROJECT	Geofiles Institute of Technology R-502
Contract No.	DMA/39-67-C-0031
AREA	
BORING NO.	
DEPTH	
EL.	
DATE	
LL	J6
PL	17
P1	19
DESCRIPTION: Natchez Mill Creek	
No Lateral Strain, Triaxial Test, Initial Confined Pressure, 1600 psi	
Circle Compression	

VOLUMETRIC STRAIN, ΔV/V, PERCENT