MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-8
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 20.0
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
09:00	1D	0.0	2-14	Brn gvlly f-c sand, sm si, tr veg (Fill) (SM)			AUGER	
03-08-02		2.0	19-22	Brown silty f-m sand, sm clay layers, tr clay, brick, gravel (Fill) (SM-SC)				
Friday	2D	2.0	10-14	Brown f-c sand, some silt, cinders, tr clay pockets, gvl, brick l(Fill) (SM)				
Clear		4.0	18-18		F	5		
60°F	3D	4.0	8-9	Top 6" Dark brown silty fine sand, trace gravel, clay pockets (Fill) (SM)				
		6.0	13-15	Bot 12": Lt brn gravelly f-c sand, sm silt, tr clay pkts, brick (Fill) (SM)				
	4D	6.0	10-13	Brown silty clay, some clayey fine sand layers, trace gravel (Fill) (CL)		10	▼	5D WC=20
		8.0	10-11	Brown fine to coarse sand, some silt, trace brick, cinders, rock fragments, gravel, clay layers (Fill) (SM)		12		
	5D	8.0	5-6					End of Boring at 12'.
		10.0	6-7			15		WC=Water Content in percent of dry weight.
	6D	10.0	20-10					
09:30		12.0	14-24			20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-8
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 20.0
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-45
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [ ] YES [X] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. ____ AVERAGE FALL, IN. ____
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ____ ID, IN. ____ LENGTH, FT. ____ TOP ELEV. ____
INTAKE ELEMENT: TYPE ____ OD, IN. ____ LENGTH, FT. ____ TIP ELEV. ____
FILTER: MATERIAL ____ OD, IN. ____ LENGTH, FT. ____ BOT. ELEV. ____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 12
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER RONALD STIDHAM HELPERS BILLY LUTTRELL
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-8-02

BORING NO. W-8

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-9
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 18.4
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
09:30	1D	0.0	4-7	Top 8": Dk brn si f sand, tr cl, veg (Fill)(SM)			AUGER	
03-08-02		2.0	8-13	Bot: Lt brn silty f-m sand, tr clay, gravel,				
Friday	2D	2.0	8-14	clay layers (Fill)(SM-SC)				
Clear		4.0	18-19	Brown fine sandy clay, tr gravel (Fill) (CL)				2D pp>4.5
60°F	3D	4.0	13-20	Top 8": Do 2D, trace roots (Fill) (CL)	F	5		
		6.0	17-18	Bot 10": Dk brn clayey fine sand, some				
	4D	6.0	12-13	gravel, trace cinders (Fill) (SC)				
		8.0	7-8	Brown silty fine sand, some clay layers,				
	5D	8.0	7-8	trace gravel, brick (Fill) (SM&CL)				
		10.0	6-5	Dark brown silty fine sand, trace clay, brick,		10		
	6D	10.0	4-5	gravel (Fill) (SM)	T1(A)			
10:00		12.0	3-5	Dark brown fine sandy silt, trace clay, clay		12		6D WC=17
				pockets, vegetation (ML)				End of Boring at 12'.
						15		
								pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						20		
								WC=Water Content in percent of dry weight.
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-9
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 18.4
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-45
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. ____ AVERAGE FALL, IN. ____
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ____ ID, IN. ____ LENGTH, FT. ____ TOP ELEV. ____
INTAKE ELEMENT: TYPE ____ OD, IN. ____ LENGTH, FT. ____ TIP ELEV. ____
FILTER: MATERIAL ____ OD, IN. ____ LENGTH, FT. ____ BOT. ELEV. ____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 12
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER RONALD STIDHAM HELPERS BILLY LUTTRELL
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-8-02

BORING NO. W-9

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-10
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 20.5
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
10:10	1D	0.0	3-9	Brown silty fine to medium sand, sm clay			AUGER	
03-07-02		2.0	9-7	layers, gravel, tr clay, brick (Fill) (SM-SC)				
Friday	2D	2.0	8-9	Do 1D (Fill) (SM-SC)				
Clear		4.0	19-25					
60°F	3D	4.0	22-23	Brown gravelly fine to coarse sand, some	F	5		
		6.0	13-20	silt, trace clay pockets, brick (Fill) (SM)				
	4D	6.0	35-42	Brown fine to coarse sandy gravel, some				
		7.5	81	silt, trace cinders (Fill) (GM)				
	5D	8.0	18-8	Top: Brn si f-m sand, tr gvl, brk (Fill) (SM)		9		
		10.0	10-9	Bot: Brown silty fine sand, tr clay (SM-SC)		10	▽	
	6D	10.0	9-8	Brown silty fine sand, trace clay (SM)	T2			
10:40		12.0	8-10			12		
								End of Boring at 12'.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-10
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 20.5
DATUM NGVD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-45
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. AVERAGE FALL, IN.
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 12
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER RONALD STIDHAM HELPERS BILLY LUTTRELL
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-8-02

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-11
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 23.4
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
10:55	1D	0.0	4-8	Brown silty f-m sand, trace clay, clay			AUGER	Grass at surface.
03-08-02		2.0	13-15	seams, gravel, vegetation (Fill) (SM-SC)	F			
Friday	2D	2.0	7-13	Brown silty fine to coarse sand, trace clay,				
Clear		4.0	16-15	gravel, clay seams (Fill) (SM-SC)		4		
60°F	3D	4.0	7-8	Brown fine sandy silt, trace clay, clay seams		5		
		6.0	10-11	(ML)				
	4D	6.0	7-8	Brown fine sandy silt, trace clay (ML)				
		8.0	9-12					
	5D	8.0	8-12	Do 4D (ML)	T1(A)			
		10.0	13-15			10		
	6D	10.0	9-10	Do 4D (ML)				WC=16
11:20		12.0	11-14			12		End of Boring at 12'.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-11
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 23.4
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED DURING CORING		CASING USED [ ] YES [X] NO			
TRUCK	CME-45	MECHANICAL		DIA., IN.		DEPTH, FT. FROM	TO
SKID		HYDRAULIC		DIA., IN.		DEPTH, FT. FROM	TO
BARGE		OTHER		DIA., IN.		DEPTH, FT. FROM	TO
OTHER							

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. AVERAGE FALL, IN.
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE:	TYPE		ID, IN.		LENGTH, FT.	TOP ELEV.	
INTAKE ELEMENT:	TYPE		OD, IN.		LENGTH, FT.	TIP ELEV.	
FILTER:	MATERIAL		OD, IN.		LENGTH, FT.	BOT. ELEV.	

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	12	NO. OF 3" SHELBY TUBE SAMPLES	
3.5" DIA. U-SAMPLE BORING	LIN. FT.		NO. OF 3" UNDISTURBED SAMPLES	
CORE DRILLING IN ROCK	LIN. FT.		OTHER:	

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER RONALD STIDHAM HELPERS BILLY LUTTRELL
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-8-02

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-12
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 24.9
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
12:05	1D	0.0	5-8	Brown silty fine sand, trace clay, brick,			AUGER	
03-08-02		2.0	12-15	gravel, vegetation (Fill) (SM-SC)	F			
Friday	2D	2.0	9-14	Brown fine to coarse sand, sm silt, gravel,				
Clear		4.0	14-15	tr clay, clay layers, brick (Fill) (SM-SC)				
60°F	3D	4.0	6-8	Brown silty fine to medium sand, trace clay		5		End of Boring at
12:20		6.0	12-17	(Fill) (SM)		6		6'.
								Hole was abandoned because rig broke down.
						10		Drilled offset hole at location of Boring W-12A.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-12
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 24.9
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-45
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 7.5"

CASING HAMMER, LBS. AVERAGE FALL, IN.
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 6
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER RONALD STIDHAM HELPERS BILLY LUTTRELL
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-8-02

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-12AU
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 24.9±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
12:00							AUGER	Grass at surface.
03-15-02								For soil description
Friday								from 0' -4' see log
Clear					F			of Boring No.12.
60°F	1D	4.0	4-5	Brown fine sandy silt, trace brick, gravel		5		
		6.0	5-9	(Fill) (ML)		6		
	2D	6.0	5-10	Brown fine sandy silt, trace clay (ML)				WC=14
		8.0	11-10					
	1U	8.0	PUSH=24"	Brown fine to medium sandy silt, trace clay,	T1(A)			pp>4.5, TV=0.6
		10.0	REC=22"	gravel (ML)		10	▼	WC=11
	3D	10.0	6-7	Stiff brown clayey silt, some fine sand,				WC=17
12:25		12.0	8-12	trace roots (ML)		12		End of Boring at 12'.
								pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						15		
								TV=Torvane Shear Strength in tsf.
						20		
								WC=Water Content in percent of dry weight.
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-12AU
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 24.9±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED DURING CORING		CASING USED	[ ] YES [X] NO		
TRUCK	CME-55	MECHANICAL		DIA., IN.		DEPTH, FT. FROM	TO
SKID		HYDRAULIC		DIA., IN.		DEPTH, FT. FROM	TO
BARGE		OTHER		DIA., IN.		DEPTH, FT. FROM	TO
OTHER							

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER 3" SHELBY HEAD
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 7.5"

CASING HAMMER, LBS. AVERAGE FALL, IN.
SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	6	NO. OF 3" SHELBY TUBE SAMPLES	
3.5" DIA. U-SAMPLE BORING	LIN. FT.	2	NO. OF 3" UNDISTURBED SAMPLES	1
CORE DRILLING IN ROCK	LIN. FT.		OTHER:	

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-13
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 29.7±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
10:50	1D	0.0	2-3	Dark brown fine sandy silt, trace brick,			AUGER	Grass at surface.
03-15-02		2.0	4-5	gravel, cinders (Fill) (ML)				
Friday	2D	2.0	4-4	Brown fine sandy silt, tr clay (Fill) (ML)				
Clear		4.0	5-6		F			
60°F	3D	4.0	4-6	Brown fine sandy silt, trace brick, shells		5		
		6.0	4-4	(Fill) (ML)				
	4D	6.0	3-4	Brown fine sandy silt, trace brick, shells,				
		8.0	6-7	cinders, vegetation (Fill) (ML)				
	5D	8.0	3-6	Top 6": Do 4D (Fill) (ML)		8.5		5D: BOT WC=17
		10.0	7-8	Bot 12": Brn f sandy silt, trace clay (ML)		10		
	6D	10.0	4-6	Brown fine sandy silt, trace clay (ML)	T1(A)			WC=16
11:45		12.0	7-9			12		End of Boring at 12'.
								WC=Water Content in percent of dry weight.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-13
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 29.7±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED DURING CORING		CASING USED	[ ] YES [X] NO		
TRUCK	CME-55	MECHANICAL		DIA., IN.		DEPTH, FT. FROM	TO
SKID		HYDRAULIC		DIA., IN.		DEPTH, FT. FROM	TO
BARGE		OTHER		DIA., IN.		DEPTH, FT. FROM	TO
OTHER							

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. AVERAGE FALL, IN.
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	12	NO. OF 3" SHELBY TUBE SAMPLES	
3.5" DIA. U-SAMPLE BORING	LIN. FT.		NO. OF 3" UNDISTURBED SAMPLES	
CORE DRILLING IN ROCK	LIN. FT.		OTHER:	

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-13

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-14
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 27.3
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
10:00	1D	0.0	2-4	Dark brown fine sandy silt, trace clay,			AUGER	Grass at surface.
03-15-02		2.0	4-5	roots, brick, cinders, vegetation (Fill) (ML)				
Friday	2D	2.0	3-3	Brown fine sandy silt, trace brick, cinders,	F			
Clear		4.0	3-3	clay (Fill) (ML)				
60°F	3D	4.0	3-4	Brown fine sandy silt, trace clay, cinders,		5		
		6.0	5-5	roots (Fill) (ML)		6		
	4D	6.0	3-4	Brown fine sandy silt, trace clay (ML)				WC=20
		8.0	5-6					
	5D	8.0	4-5	Do 4D (ML)	T1(A)			WC=18
		10.0	7-7			10		
	6D	10.0	3-4	Do 4D (ML)				WC=20
10:30		12.0	5-7			12		End of Boring at 12'.
								WC=Water Content in percent of dry weight.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-14
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 27.3
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-55
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO
DIA., IN. DEPTH, FT. FROM TO

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. AVERAGE FALL, IN.
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 12
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-14

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-15U
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 21.4±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
09:00	1D	0.0	1-4	Dark brown fine sandy silt, trace clay, brick,	F		AUGER	Grass at surface.
03-15-02		2.0	6-8	cinders, vegetation (Fill) (ML)		2		
Friday	2D	2.0	4-4	Brown fine sandy silt, trace clay, vegetation				WC=20
Clear		4.0	5-7	(ML)				
60°F	3D	4.0	4-5	Brown fine sandy silt, trace clay (ML)		5		WC=17
		6.0	6-9					1U: pp=3.7, TV=1.2
	1U	6.0	PUSH=24"	Brown fine sandy clay, trace gravel (CL)	T1(A)			WC=18
		8.0	REC=19"					
	4D	8.0	3-5	Brown fine sandy silt, trace clay (ML)				pp=2.9, WC=17
		10.0	8-11			10		
	5D	10.0	3-5	Stiff brown clayey silt, some fine sand (ML)				5D: pp=3.4, WC=20
09:45		12.0	9-12			12		End of Boring at 12'.
						15		
						20		pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						25		TV=Torvane Shear Strength in tsf.
						30		WC=Water Content in percent of dry weight.
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-15U
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 21.4±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED DURING CORING		CASING USED	[ ] YES [X] NO		
TRUCK	CME-55	MECHANICAL		DIA., IN.		DEPTH, FT. FROM	TO
SKID		HYDRAULIC		DIA., IN.		DEPTH, FT. FROM	TO
BARGE		OTHER		DIA., IN.		DEPTH, FT. FROM	TO
OTHER							

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER 3" SHELBY HEAD
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 7.5"

CASING HAMMER, LBS. AVERAGE FALL, IN.
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE:	TYPE		ID, IN.		LENGTH, FT.	TOP ELEV.	
INTAKE ELEMENT:	TYPE		OD, IN.		LENGTH, FT.	TIP ELEV.	
FILTER:	MATERIAL		OD, IN.		LENGTH, FT.	BOT. ELEV.	

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	10	NO. OF 3" SHELBY TUBE SAMPLES	
3.5" DIA. U-SAMPLE BORING	LIN. FT.	2	NO. OF 3" UNDISTURBED SAMPLES	1
CORE DRILLING IN ROCK	LIN. FT.		OTHER:	

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-16
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 24.2±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
07:45	1D	0.0	3-5	Dark brown fine sandy silt, trace gravel,			AUGER	Grass at surface.
03-15-02		2.0	9-9	brick, vegetation (Fill) (ML)				
Fri., Clear	2D	2.0	5-5	Brown fine sandy silt, trace rock fragments,	F			
60°F, 7:55		4.0	6-5	gravel, clay, brick (Fill) (ML)				
	3D	4.0	3-50/3"	Top: Brown fine sandy clay (Fill) (CL)		4.7		REC=6"
		4.7		Bot 2": Gray gravel (Fill) (GP)				Bot 2" sample wet.
								Boring was terminated at 4.7' due to obstruction.
						10		Possible waler line.
								Drilled replacement boring at location of W-16A.
						15		
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-16
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 24.2±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-55
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. ____ AVERAGE FALL, IN. ____
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ____ ID, IN. ____ LENGTH, FT. ____ TOP ELEV. ____
INTAKE ELEMENT: TYPE ____ OD, IN. ____ LENGTH, FT. ____ TIP ELEV. ____
FILTER: MATERIAL ____ OD, IN. ____ LENGTH, FT. ____ BOT. ELEV. ____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 4.7
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-16

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-16A
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 24±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-55
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____
DIA., IN. ____ DEPTH, FT. FROM ____ TO ____

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. ____ AVERAGE FALL, IN. ____
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ____ ID, IN. ____ LENGTH, FT. ____ TOP ELEV. ____
INTAKE ELEMENT: TYPE ____ OD, IN. ____ LENGTH, FT. ____ TIP ELEV. ____
FILTER: MATERIAL ____ OD, IN. ____ LENGTH, FT. ____ BOT. ELEV. ____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 8
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-16A

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-16A
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 24±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
08:05							AUGER	
03-15-02					F			
Friday				Top 6": Dark brown fine sandy silt, trace clay, brick fgmts, shells (Fill) (ML)				
Clear								
60°F	1D	4.0	3-3	Bot 12': Stiff brown clayey silt, some fine sand (ML)		4.5		1D Bot WC=19
		6.0	5-5					
	2D	6.0	3-4	Brown fine sandy silt, trace clay (ML)				pp=2.2, WC=17
		8.0	6-6		T1(A)			
	3D	8.0	3-4	Stiff brown silty clay, some fine sand (CL)				pp=2.0, WC=19
		10.0	6-7			10		
	4D	10.0	4-6	Brown fine sandy silt, trace clay (ML)				WC=18
08:30		12.0	9-10			12		End of Boring at 12'.
								pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						15		
								WC=Water Content in percent of dry weight.
						20		
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-17
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 18.5±
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
07:00	1D	0.0	2-3	Brown fine sandy silt, trace vegetation (Fill) (ML)			AUGER	
03-15-02		2.0	4-5		F			
Friday	2D	2.0	4-5	Stiff light brown clayey silt, some fine sand (ML)		2.5		pp=3.4, WC=21
Clear		4.0	9-11					
60°F	3D	4.0	5-10	Brown fine sandy silt, trace clay, clay pockets (ML)	T1(A)	5		pp=4.2, WC=14
		6.0	14-17			6		
	4D	6.0	6-9	Brown silty fine sand, some clay layers (SM&CL)				pp=2.25
		8.0	11-10		T2	8		
	5D	8.0	3-4	Stiff brown tan clayey silt, some fine sand (ML)				pp=3.3, WC=16
		10.0	6-8		T1(A)	10	▽	
	6D	10.0	4-7	Stiff brown silty clay, some fine sand (CL)				pp=3.4. WC=17
07:35		12.0	8-8			12		
								End of Boring at 12'.
						15		
								pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						20		
								WC=Water Content in percent of dry weight.
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-17
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 18.5±
DATUM NGSD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG
TRUCK CME-55
SKID
BARGE
OTHER

TYPE OF FEED DURING CORING
MECHANICAL
HYDRAULIC
OTHER

CASING USED [ ] YES [X] NO
DIA., IN. / DEPTH, FT. FROM / TO
DIA., IN. / DEPTH, FT. FROM / TO
DIA., IN. / DEPTH, FT. FROM / TO

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 6"

CASING HAMMER, LBS. AVERAGE FALL, IN.
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING LIN. FT. 12
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER:

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-17

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

BORING NO. W-18U
SHEET 1 OF 2
FILE NO. 9726A
SURFACE ELEV. 16.9
RES. ENGR. MICHAEL WECKLER

PROJECT: WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION : WASHINGTON, D.C.

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
17:50	1D	0.0	2-4	Brown fine sandy silt, trace gravel,	F		AUGER	
03-15-02		2.0	5-5	vegetation (Fill) (ML)		2		
Friday	2D	2.0	4-4	Light brown fine sandy silt, trace clay (ML)	T1(A)			pp=2.5, WC=16
Clear		4.0	6-9					
70°F	1U	4.0	PUSH=24"	Top: Hard clayey silt, sm f sa, tr gvl (ML)		5		Top 1U pp>4.5
		6.0	REC=23"	Bot: Brn silty f-m sand, trace clay (SM)	T2			WC=15
	3D	6.0	5-8	Light brown silty fine sand, some clay				Bot 1U WC=11
		8.0	7-7	layers (SM&CL)		8		
	4D	8.0	3-4	Stiff light brown clayey silt, some fine sand	T1(A)			pp=3.1, WC=16
		10.0	6-8	(ML)		10		
	2U	10.0	PUSH=24"	Brown gray silty fine to medium sand, trace	T2			WC=15
18:30		12.0	REC=23"	clay, gravel (SM)		12		
								End of Boring at 12'.
						15		
								pp=Pocket Penetrometer Unconfined Compressive Strength in tsf.
						20		
								WC=Water Content in percent of dry weight.
						25		
						30		
						35		
						40		
						45		
						50		

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING NO. W-18U
SHEET 2 **OF** 2
FILE NO. 9726A
SURFACE ELEV. 16.9
DATUM NGVD

PROJECT WASHINGTON MONUMENT GROUND IMPROVEMENTS
LOCATION WASHINGTON, D.C.
BORING LOCATION SEE BORING LOCATION PLAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED DURING CORING		CASING USED	[ ] YES [X] NO		
TRUCK	CME-55	MECHANICAL		DIA., IN.		DEPTH, FT. FROM	TO
SKID		HYDRAULIC		DIA., IN.		DEPTH, FT. FROM	TO
BARGE		OTHER		DIA., IN.		DEPTH, FT. FROM	TO
OTHER							

TYPE AND SIZE OF:
D-SAMPLER 2" O.D. SPLIT SPOON
U-SAMPLER SHELBY HEAD
S-SAMPLER
CORE BARREL
CORE BIT
DRILL RODS AW

DRILLING MUD USED [ ] YES [X] NO
DIAMETER OF ROTARY BIT, IN.
TYPE OF DRILLING MUD

AUGER USED [X] YES [ ] NO
TYPE AND DIAMETER, IN. HOLLOW STEM O.D. 7.5"

CASING HAMMER, LBS. AVERAGE FALL, IN.
*SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

*MECHANICAL HAMMER USED.

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE (FEET)	DEPTH OF CASING (FEET)	DEPTH TO WATER (FEET)	CONDITIONS OF OBSERVATION
					NO OBSERVATIONS MADE.

PIEZOMETER INSTALLED [ ] YES [X] NO SKETCH SHOWN ON

STANDPIPE: TYPE ID, IN. LENGTH, FT. TOP ELEV.
INTAKE ELEMENT: TYPE OD, IN. LENGTH, FT. TIP ELEV.
FILTER: MATERIAL OD, IN. LENGTH, FT. BOT. ELEV.

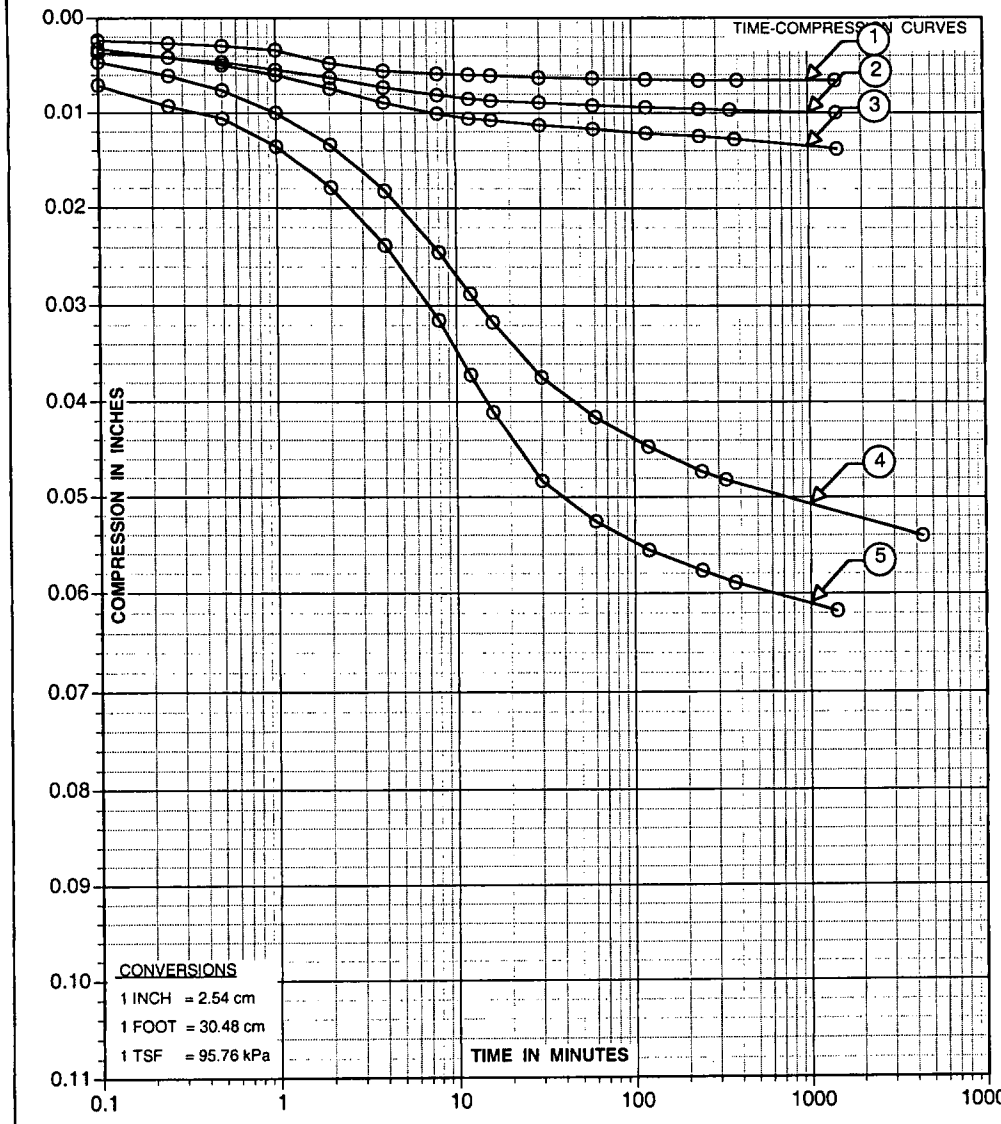
PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	8	NO. OF 3" SHELBY TUBE SAMPLES	
3.5" DIA. U-SAMPLE BORING	LIN. FT.	4	NO. OF 3" UNDISTURBED SAMPLES	2
CORE DRILLING IN ROCK	LIN. FT.		OTHER:	

BORING CONTRACTOR GEOSERVICES CORP.
DRILLER STEVE WINGET HELPERS JOHN PERSINGER
REMARKS BOREHOLE WAS GROUTED UPON COMPLETION.
RESIDENT ENGINEER MICHAEL WECKLER DATE 3-15-02

BORING NO. W-18U

APPENDIX B



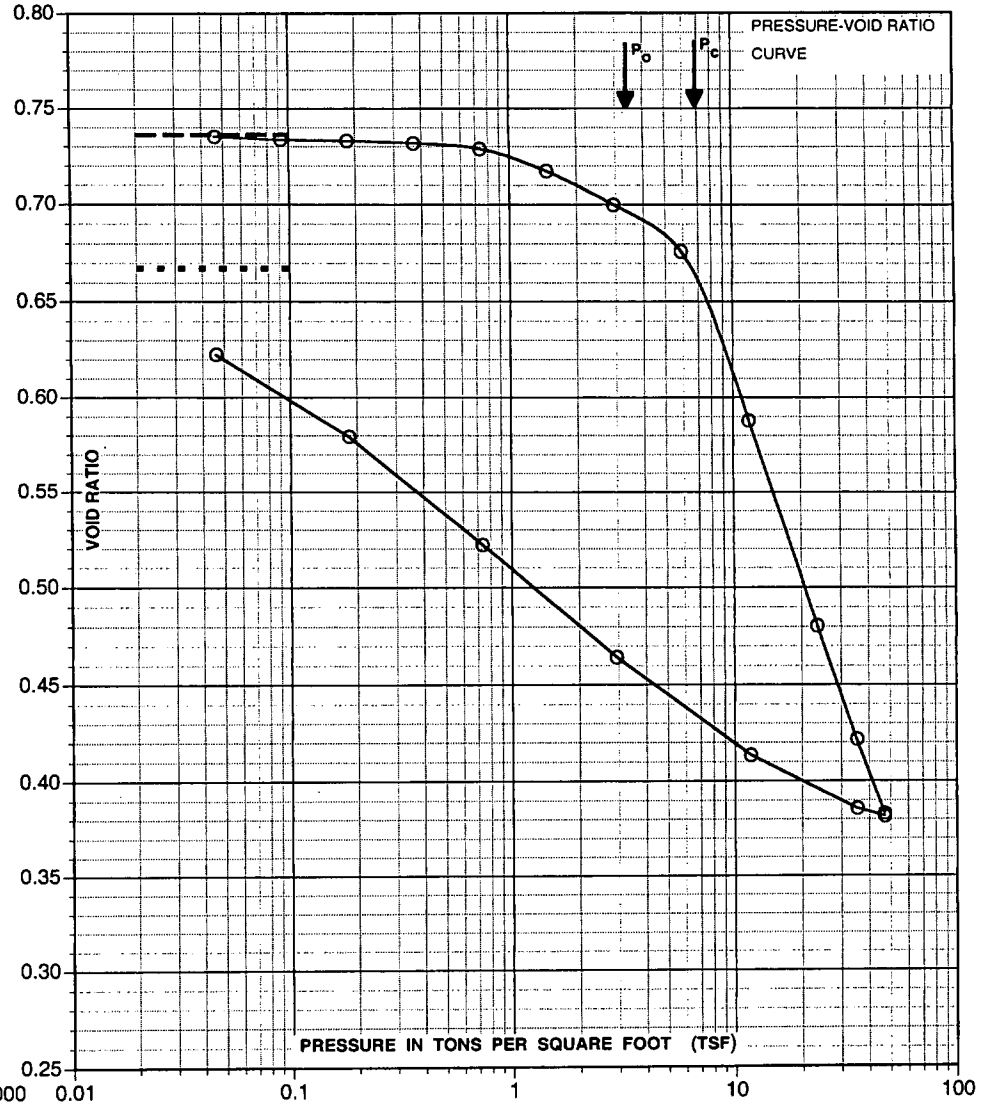


PLATE NO. 1

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①	0.733	1.47
②	1.47	2.93
③	2.93	5.87
④	5.87	11.73
⑤	11.73	23.41
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION: STIFF GRAY SILTY CLAY, TRACE FINE SAND (CL)

STRATUM T1(D)

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - CL
LIQUID LIMIT, w_L = 43.4
PLASTIC LIMIT, w_P = 22.4
PLASTICITY INDEX, I_P = 21
NATURAL WATER CONT. %, w = 27.5
LIQUIDITY INDEX, $(w-w_p)/I_p$ = 0.243
SPECIFIC GRAVITY, G_s = 2.75

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN = -33.6
DEPTH OF SPECIMEN (FT) = 61
DIAMETER OF SPECIMEN (IN) = 2.5
INITIAL THICKNESS OF SPECIMEN (IN) = 0.99
INITIAL WATER CONTENT, % = 26.8
FINAL WATER CONTENT, % = 26.3
INITIAL DEGREE SATURATION, % = 100.14
FINAL DEGREE SATURATION, % = 108.37

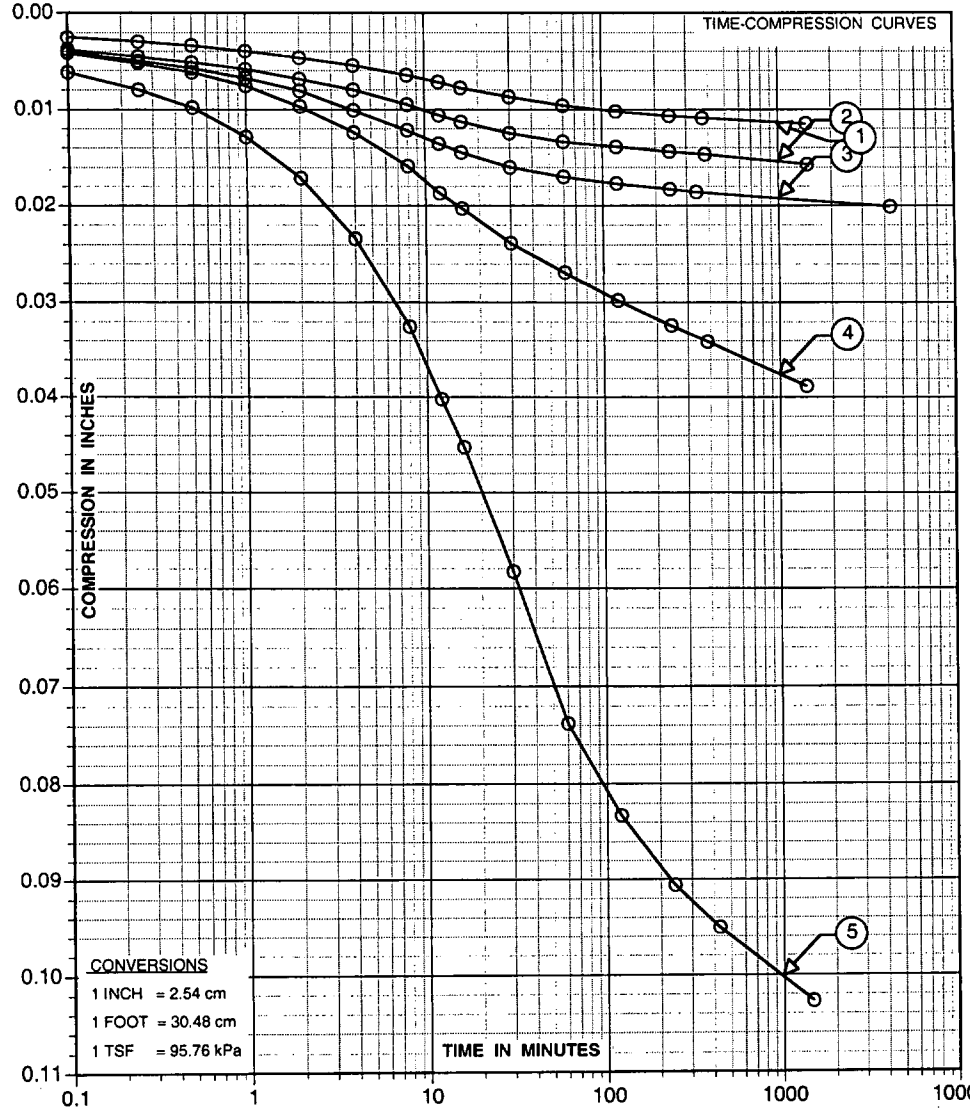
INITIAL VOID RATIO, e_o = 0.736
FINAL VOID RATIO, e_f = 0.667
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c = 7.0
EXISTING OVERBURDEN STRESS (TSF), P_o = 3.4
COMPRESSION INDEX, C_c = 0.340
SWELLING INDEX, C_s = 0.090, REBOUND FROM e = 0.382

WASHINGTON MONUMENT
WASHINGTON D.C.

MUESER RUTLEDGE CONSULTING ENGINEERS
225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM DATE: 6-4-02 FILE NO.
CH'KD BY: AA DATE: 6-6-02 9726B

CONSOLIDATION TEST PLATE NO.
BORING NO. B-1UP SAMPLE NO. 3U 1



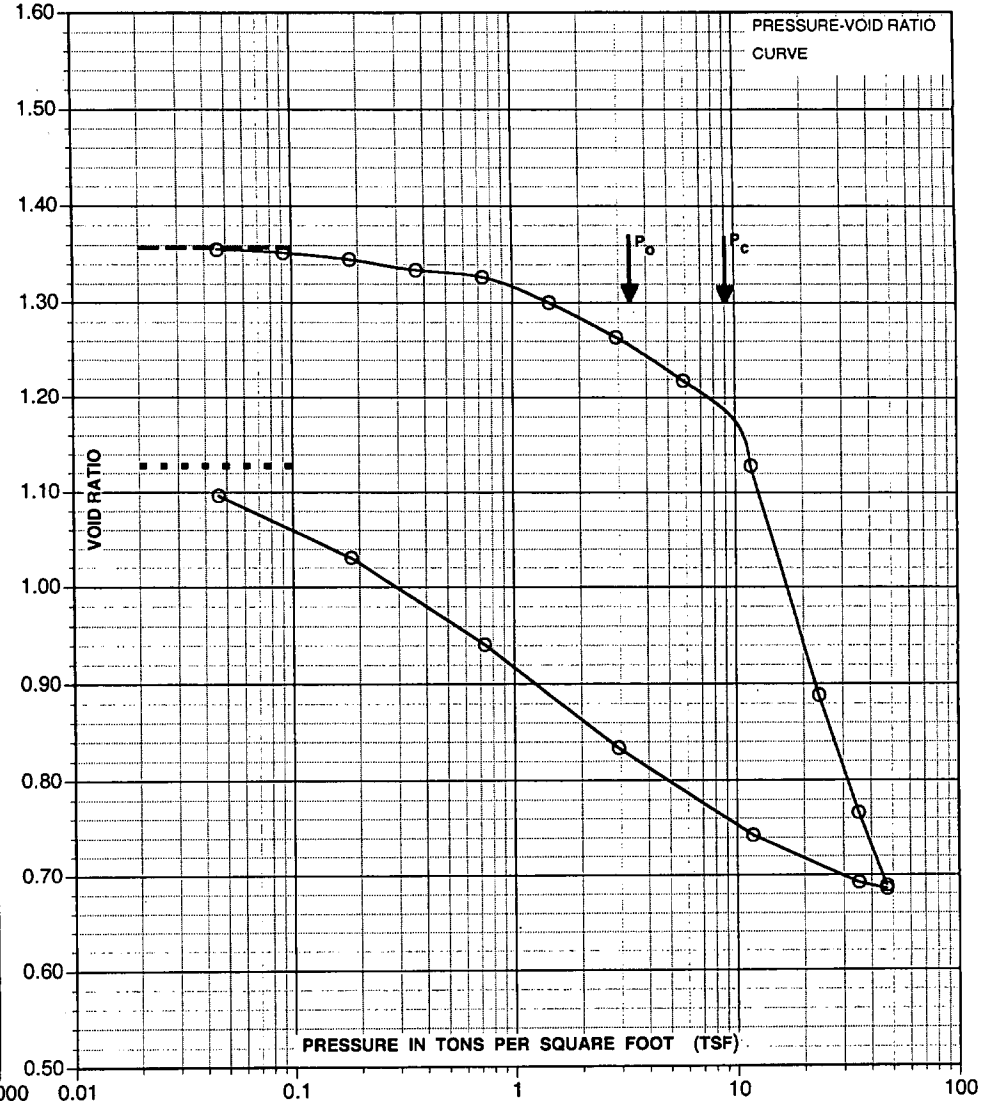


PLATE NO. 3

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①	0.73	1.46
②	1.46	2.93
③	2.93	5.85
④	5.85	11.7
⑤	11.7	23.4
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION: STIFF GRAY SILT, TRACE FINE SAND (MH)

STRATUM T1(D)

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - MH
LIQUID LIMIT, w_L = 76.9
PLASTIC LIMIT, w_P = 39.8
PLASTICITY INDEX, I_P = 37.0
NATURAL WATER CONT. %, w = 47.1
LIQUIDITY INDEX, $(w-w_p)/I_p$ = 0.197
SPECIFIC GRAVITY, G_s = 2.72

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN = -58.2
DEPTH OF SPECIMEN (FT) = 77
DIAMETER OF SPECIMEN (IN) = 2.5
INITIAL THICKNESS OF SPECIMEN (IN) = 1.0045
INITIAL WATER CONTENT, % = 47.3
FINAL WATER CONTENT, % = 42.8
INITIAL DEGREE SATURATION, % = 94.74
FINAL DEGREE SATURATION, % = 103.16

INITIAL VOID RATIO, e_o = 1.36
FINAL VOID RATIO, e_f = 1.13
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c = 9.5
EXISTING OVERBURDEN STRESS (TSF), P_o = 3.4
COMPRESSION INDEX, C_c = 0.750
SWELLING INDEX, C_s = 0.160, REBOUND FROM e = 0.685

WASHINGTON MONUMENT
WASHINGTON D.C.

MUESER RUTLEDGE CONSULTING ENGINEERS
225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM DATE: 6-3-02 FILE NO.
CH'KD BY: AA DATE: 6-6-02 9726B

CONSOLIDATION TEST PLATE NO.
BORING NO. B-4U SAMPLE NO. 6U 3

APPENDIX C

WASHINGTON MONUMENT, WASHINGTON D.C.

SUMMARY OF CONSOLIDATION TESTS BY EDWARD S. BARBER

Plate No.	Initial Density (lb/ft^3)	Specimen Depth (ft)	Specimen Diameter (in)	Specimen Thickness (in)	Initial Water Content w (%)	Value For e_0	USCS Symbol	Slope of Recompression curve $C_r/1+e_0$	Slope of Recompression curve C_r*	Slope of Virgin curve $C_c/1+e_0$	Slope of Virgin curve C_c*
1	122	74	1.75	0.5	29	0.77		0.0155	0.0274	0.2400	0.4244
2	120	78	1.75	0.5	33	0.87		0.0164	0.0307	0.1660	0.3112
3	107	84	1.75	0.5	46	1.22	OH	0.0364	0.0808	0.3070	0.6812
4	108	89	1.75	0.5	47	1.25		Lack of recompression		0.2850	0.6400
5	108	101	1.75	0.5	44	1.17		0.0166	0.0360	0.3460	0.7494
6	126	68	1.75	0.5	25	0.66		0.0143	0.0238	0.2700	0.4489
7	123	73	1.75	0.5	26	0.69		Lack of recompression		0.2100	0.3547
8	120	78	1.75	0.5	32	0.85	CL	0.0255	0.0471	0.2660	0.4916
9	108	82	1.75	0.5	44	1.17		0.0161	0.0349	0.2870	0.6216
10	108	88	1.75	0.5	48	1.27		Lack of recompression		Test terminated early	
11	107	92	1.75	0.5	44	1.17		Lack of recompression		Test terminated early	
12	107	97	1.75	0.5	49	1.30	OH	0.0216	0.0496	0.3060	0.7033
13	102	83	1.75	0.5	55	1.46		0.0281	0.0691	0.3000	0.7373
14	90	88	1.75	0.5	75	1.99		0.0187	0.0559	0.3160	0.9441
15	108	95	1.75	0.5	42	1.11	OH/CH	0.0146	0.0308	0.1910	0.4036
16	108	99	1.75	0.5	43	1.14		0.0174	0.0372	0.1940	0.4151
17	125	15	1.75	0.5	18	0.48		Data quality in question		Test terminated early	
18	116	17	1.75	0.5	31	0.82		0.0191	0.0348	0.1550	0.2823
19	105	44	1.75	0.5	49	1.30	OH	0.0160	0.0368	Test terminated early	
20	108	20	1.75	0.5	44	1.17	CL	0.0167	0.0362	0.1677	0.3632
21	97	25	1.75	0.5	63	1.67		0.0125	0.0334	0.1699	0.4535
22	126	41	1.75	0.5	25	0.66		0.0141	0.0234	Test terminated early	
23	121	47	1.75	0.5	32	0.85	CL	0.0169	0.0312	Test terminated early	
24	115	52	1.75	0.5	36	0.95		0.0100	0.0195	Data quality in question	
25	114	56	1.75	0.5	35	0.93		0.0235	0.0453	Test terminated early	
26	106	62	1.75	0.5	48	1.27		Lack of recompression		Test terminated early	
27	106	67	1.75	0.5	46	1.22	OH	0.0192	0.0426	Test terminated early	
28	104	71	1.75	0.5	51	1.35		0.0259	0.0609	Test terminated early	
29	107	76	1.75	0.5	47	1.25		Data quality in question		Data quality in question	
30	106	61	1.75	0.5	51	1.35		0.0110	0.0259	Data quality in question	
31	106	67	1.75	0.5	51	1.35	CH	Data quality in question		Test terminated early	
32	119	66	1.75	0.5	33	0.87	CH	Data quality in question		Test terminated early	
33	108	77	1.75	0.5	44	1.17		0.0077	0.0166	Data quality in question	
34	110	77	1.75	0.5	47	1.25		0.0217	0.0487	0.3322	0.7460
35	109	82	1.75	0.5	46	1.22		Lack of recompression		0.1900	0.4216
36	N/A	84	2.5	1				Lack of recompression		Test terminated early	
37	N/A	28	2.5	1				Lack of recompression		Test terminated early	
38	N/A	97	2.5	1				Lack of recompression		Test terminated early	
39	N/A	95	2.5	1				Lack of recompression		Test terminated early	
40	N/A	44	2.5	1				Lack of recompression		0.1360	0.1360
41	N/A	67	2.5	1				Lack of recompression		Test terminated early	
42	N/A	76	2.5	1				Lack of recompression		Test terminated early	
43	N/A	67	2.5	1				Lack of recompression		Test terminated early	
44	N/A	66	2.5	1				Lack of recompression		Test terminated early	
								AVERAGE	**0.0391**	**AVERAGE**	**0.5164**

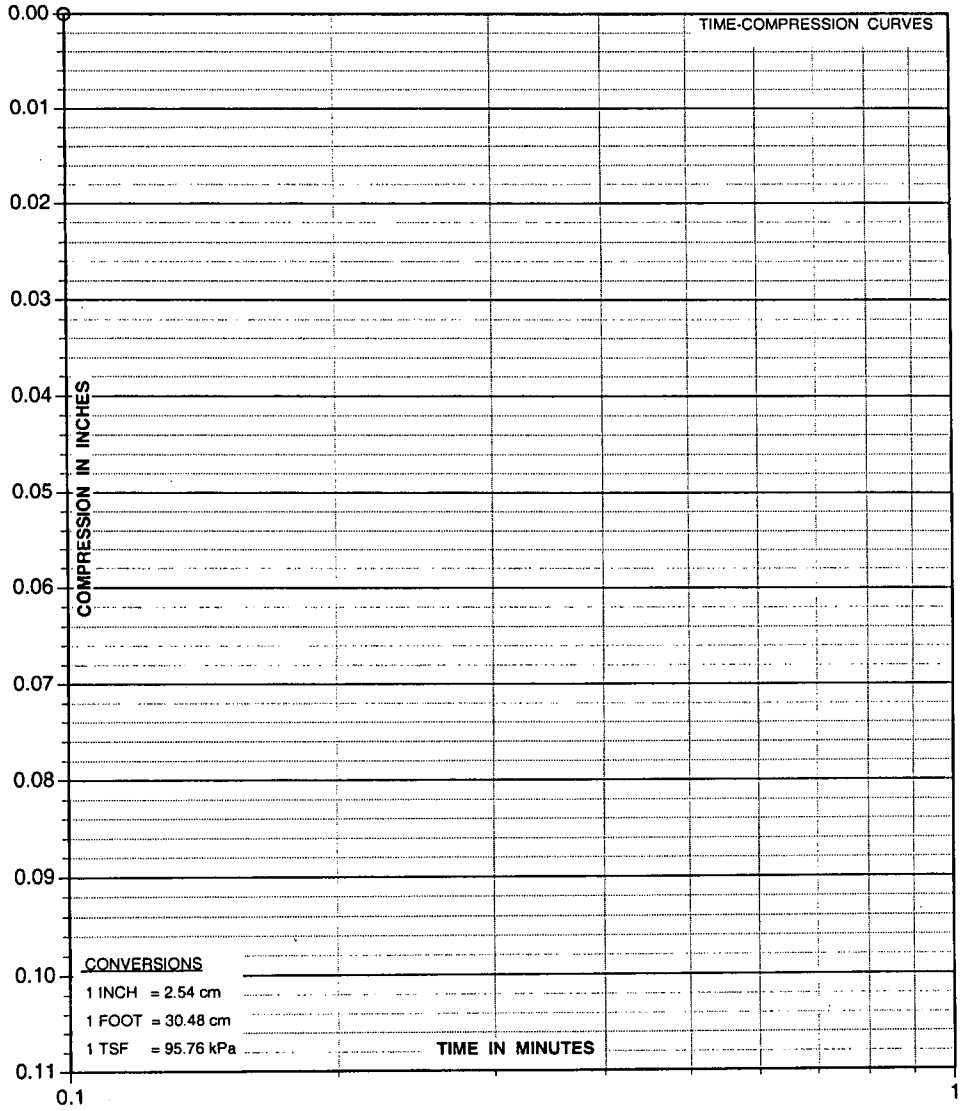
*Value for e_0 Calculated with the formula

$G_s * w = S * e_0$

* Estimated $G_s = 2.65$

*Assume S=1.0

FILE NO. 9726B



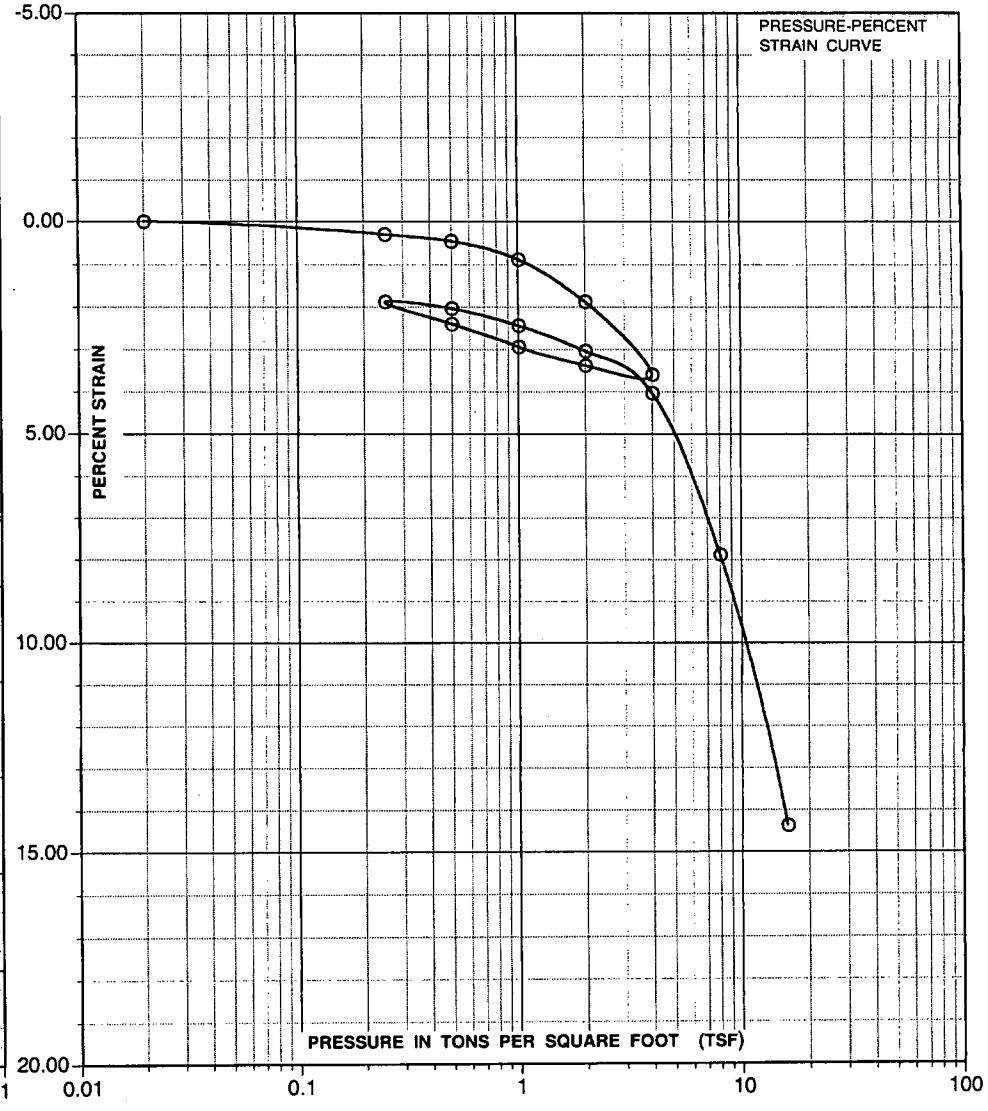


PLATE NO. 1

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT , w_L =
PLASTIC LIMIT , w_P =
PLASTICITY INDEX , I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY , G_s =
INITIAL DENSITY, lb/ft^3 = 122

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 74
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 29
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO , e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

FROM 1962 DATA BY EDWARD S. BARBER

WASHINGTON MONUMENT

WASHINGTON D.C.

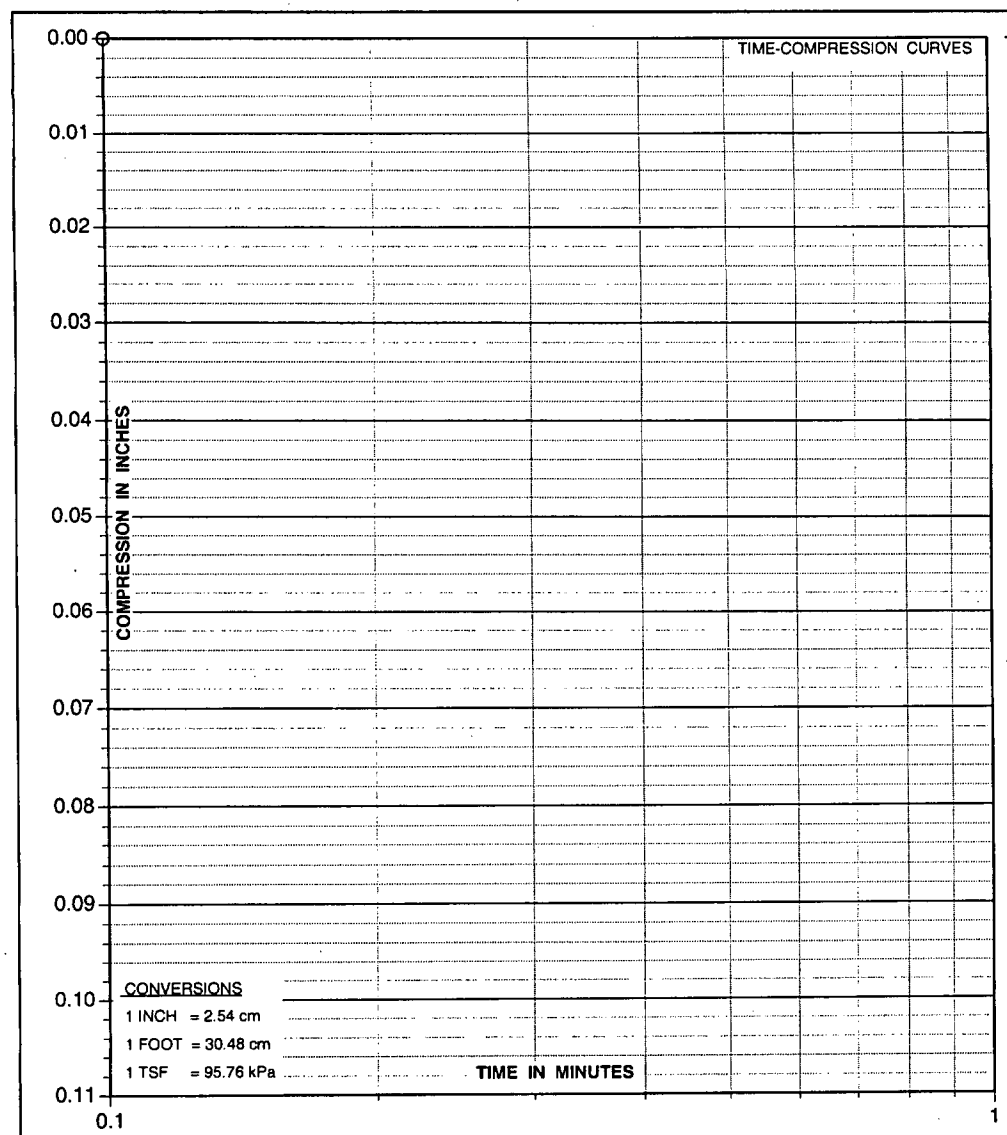
MUESER RUTLEDGE CONSULTING ENGINEERS

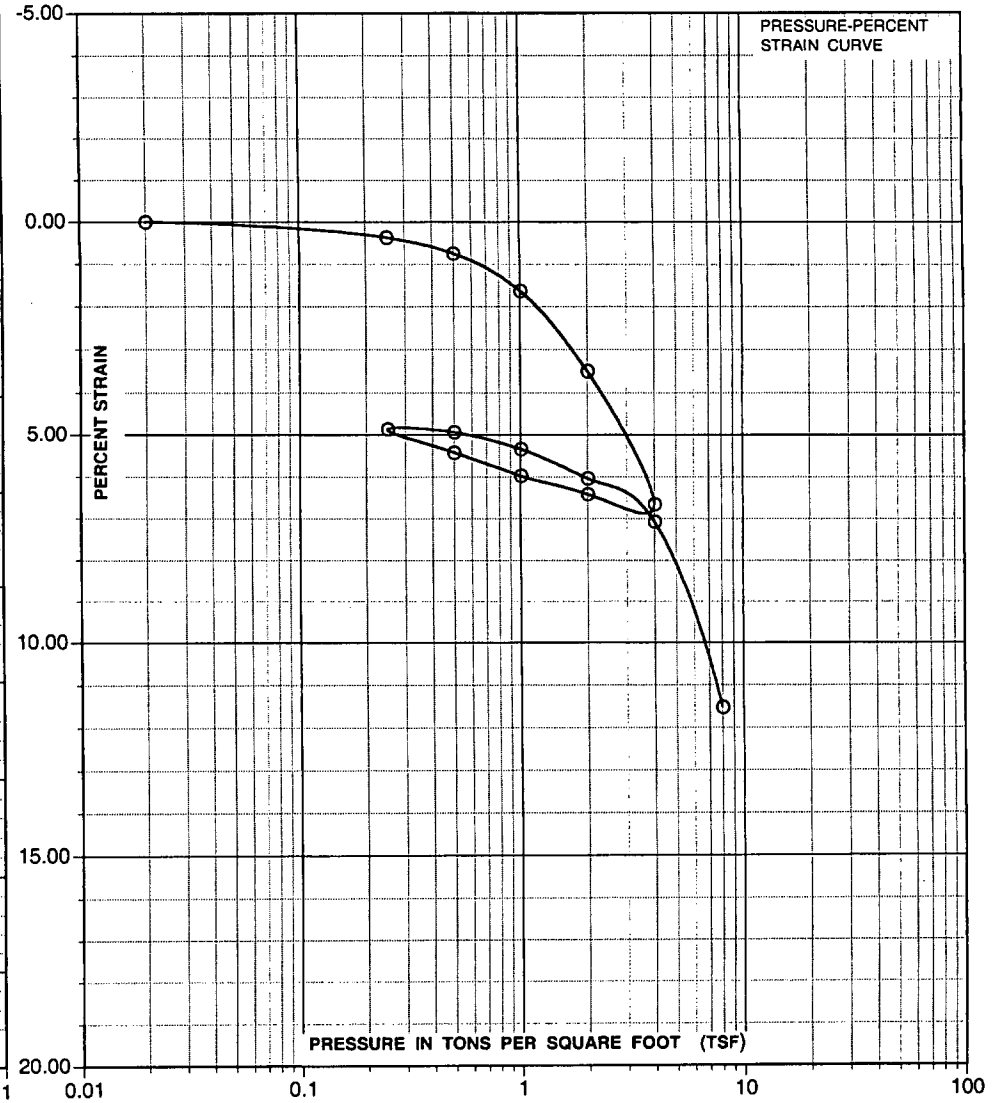
225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM	DATE: 5-23-02	FILE NO.
CH'KD BY: AA	DATE: 6-6-02	9726B

CONSOLIDATION TEST — PLATE NO. 1

BORING NO. B-22 SAMPLE NO. 18





CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

PLATE NO. 2

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 120

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 78
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 33
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

FROM 1962 DATA BY EDWARD S. BARBER

WASHINGTON MONUMENT

WASHINGTON D.C.

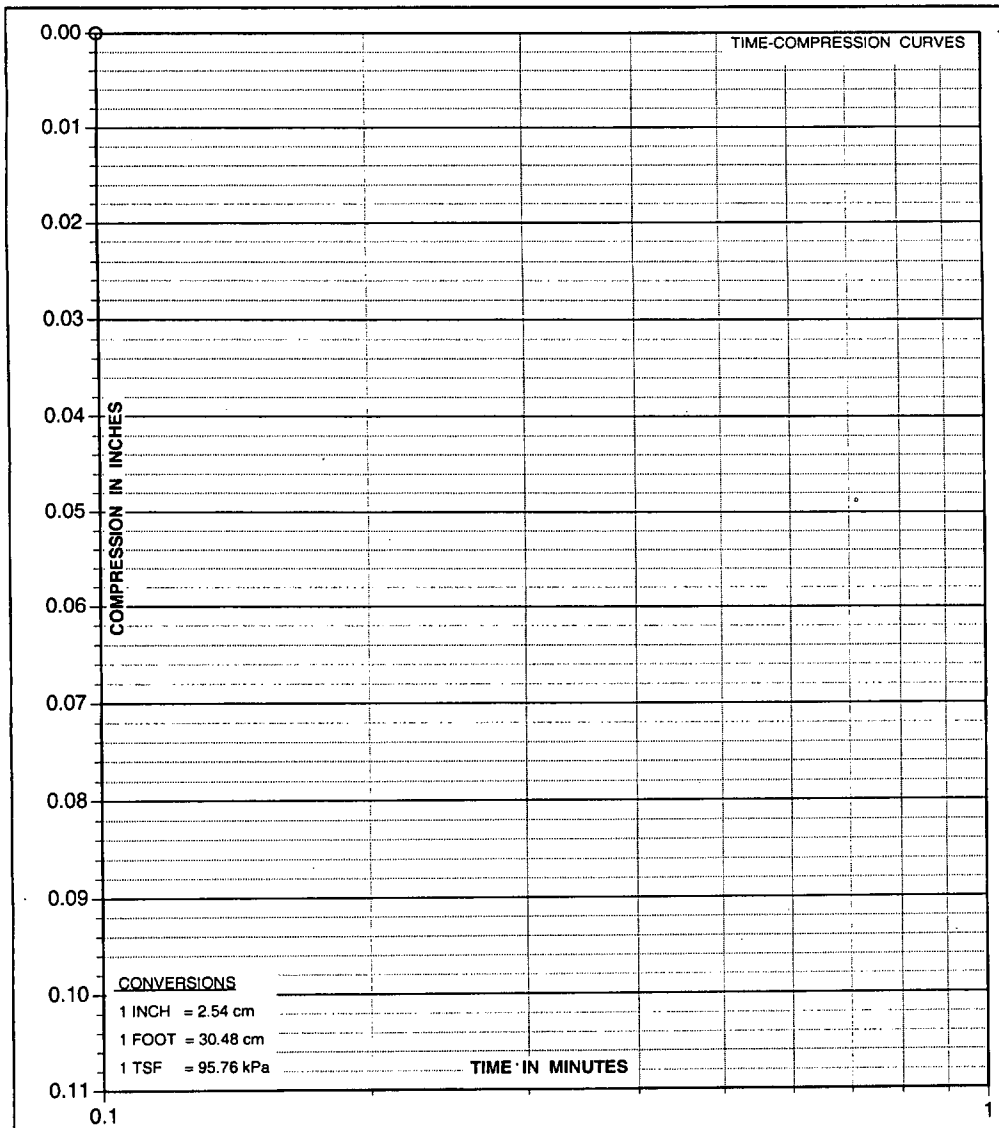
MUESER RUTLEDGE CONSULTING ENGINEERS

225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM	DATE: 5-23-02	FILE NO.
CH'KD BY: AA	DATE: 6-6-02	9726B

CONSOLIDATION TEST — PLATE NO. 2

BORING NO. B-22 SAMPLE NO. 19



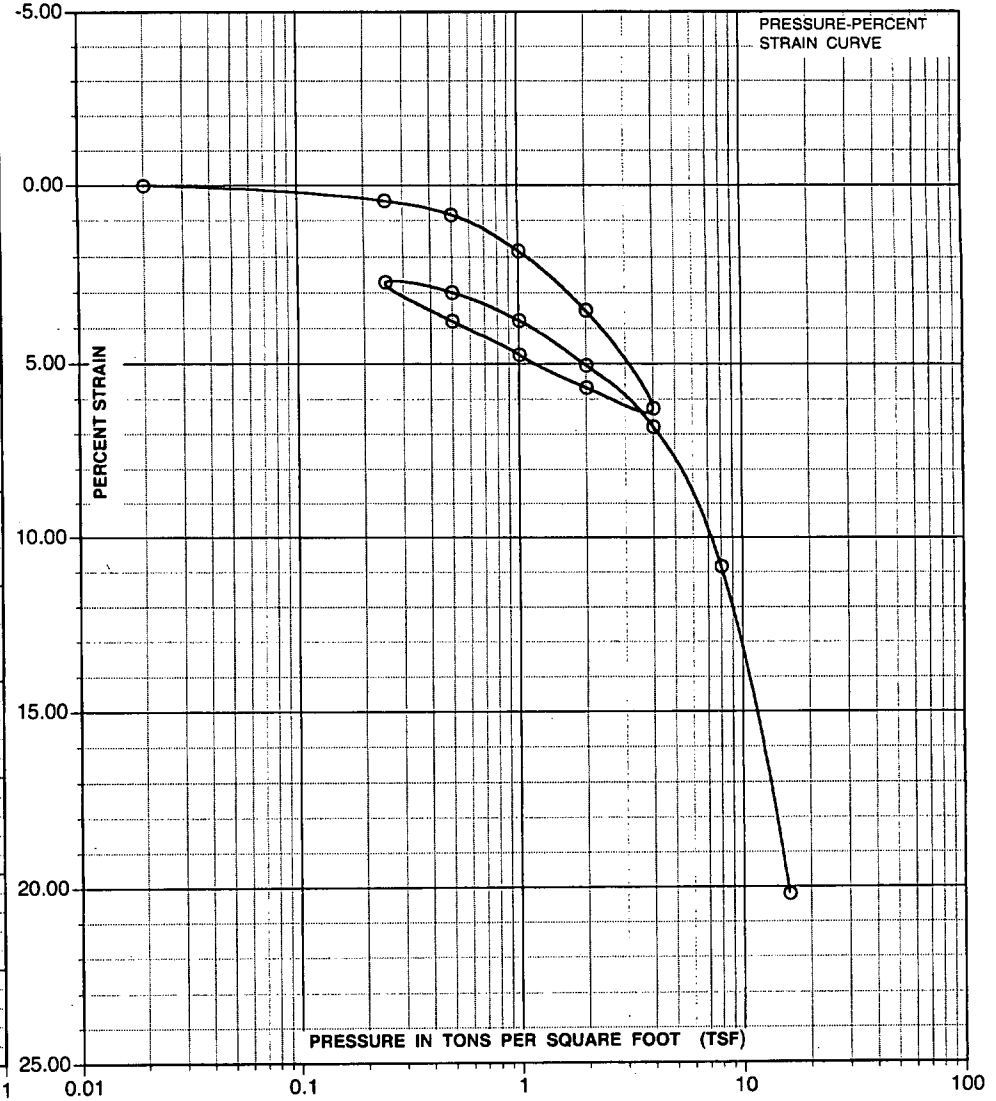


PLATE NO. 3

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - OH
LIQUID LIMIT, w_L = 59
PLASTIC LIMIT, w_P = 37
PLASTICITY INDEX, I_P = 22
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 107

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 84
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 46
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

FROM 1962 DATA BY EDWARD S. BARBER

WASHINGTON MONUMENT

WASHINGTON D.C.

MUESER RUTLEDGE CONSULTING ENGINEERS

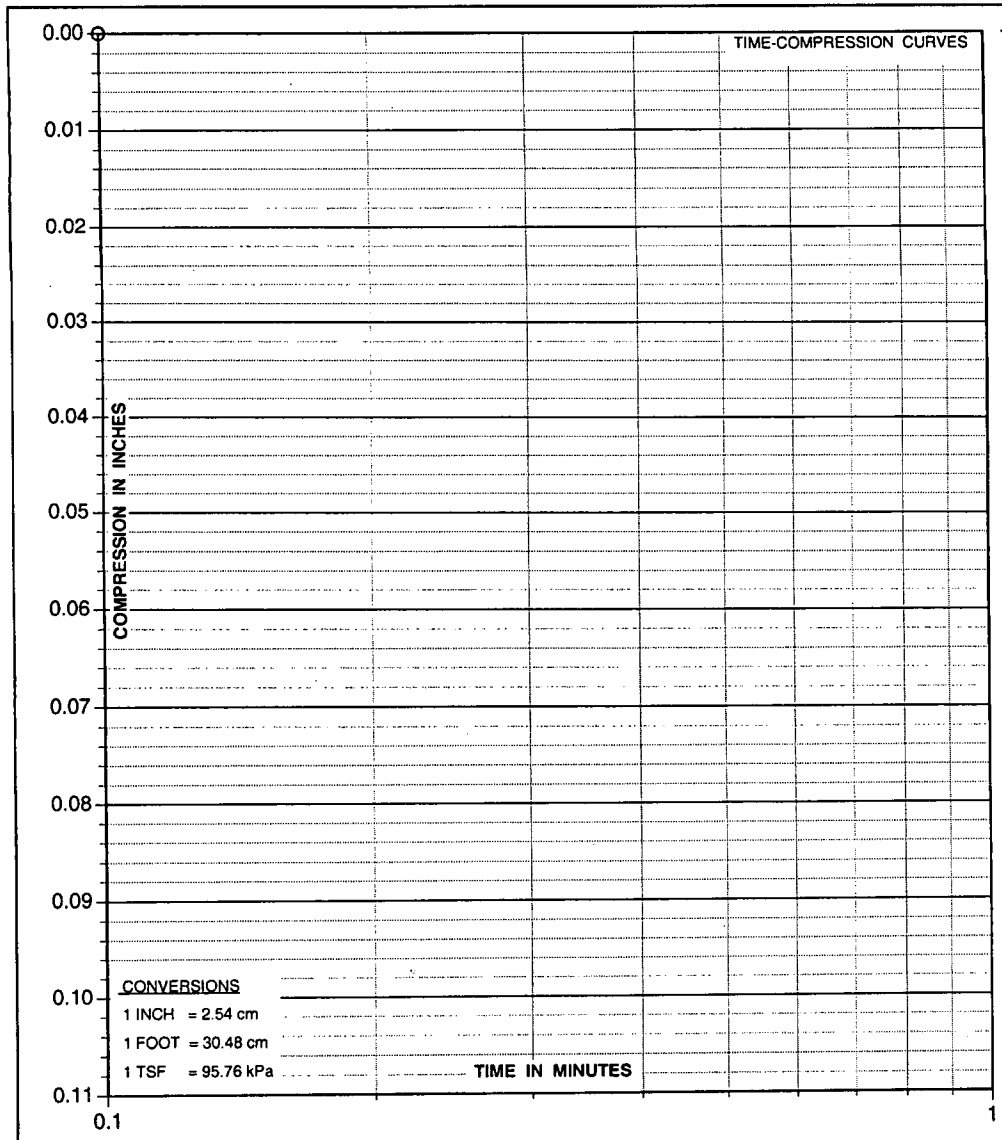
225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM DATE: 5-23-02 FILE NO. 9726B

CH'KD BY: DATE:

CONSOLIDATION TEST PLATE NO. 3

BORING NO. B-22 SAMPLE NO. 21



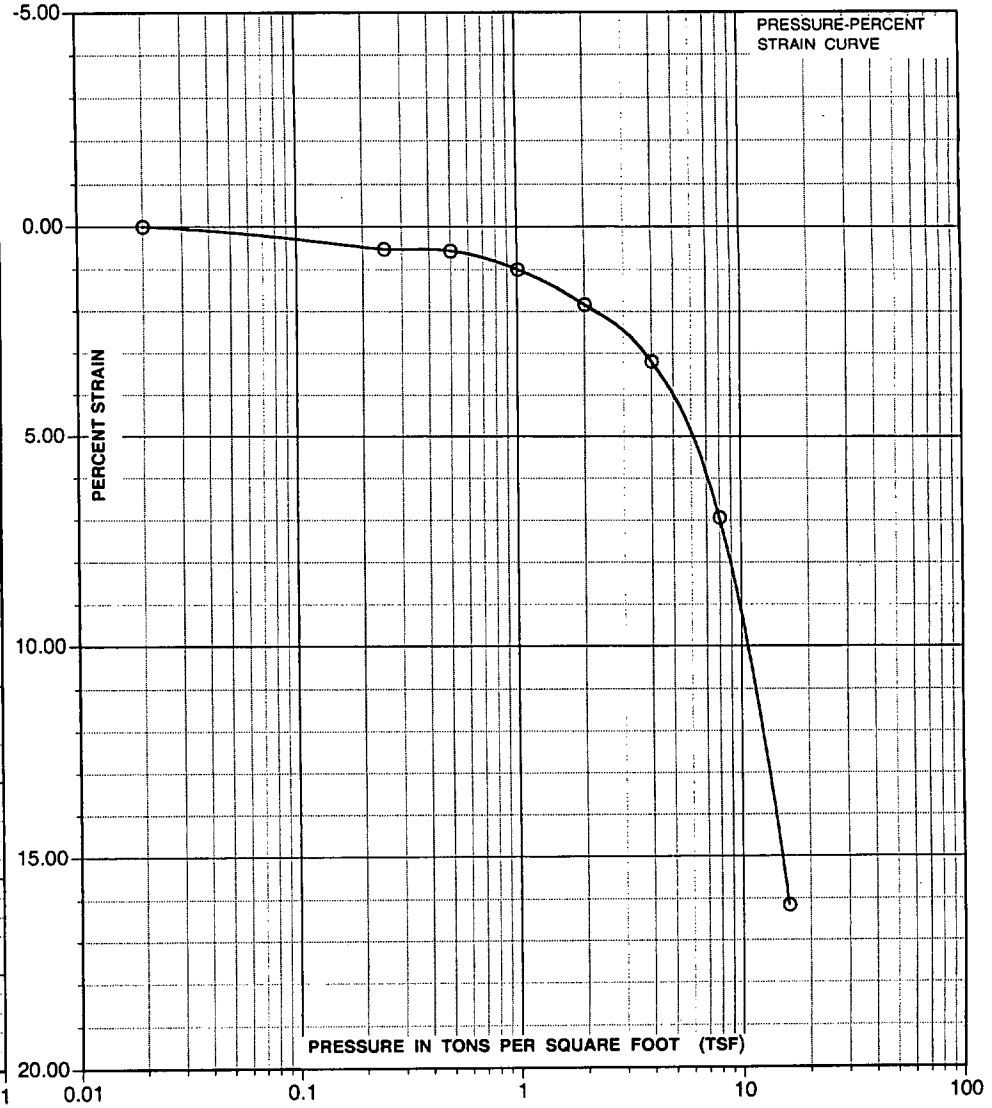


PLATE NO. 4

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 89
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 47
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

FROM 1962 DATA BY EDWARD S. BARBER

WASHINGTON MONUMENT

WASHINGTON D.C.

MUESER RUTLEDGE CONSULTING ENGINEERS

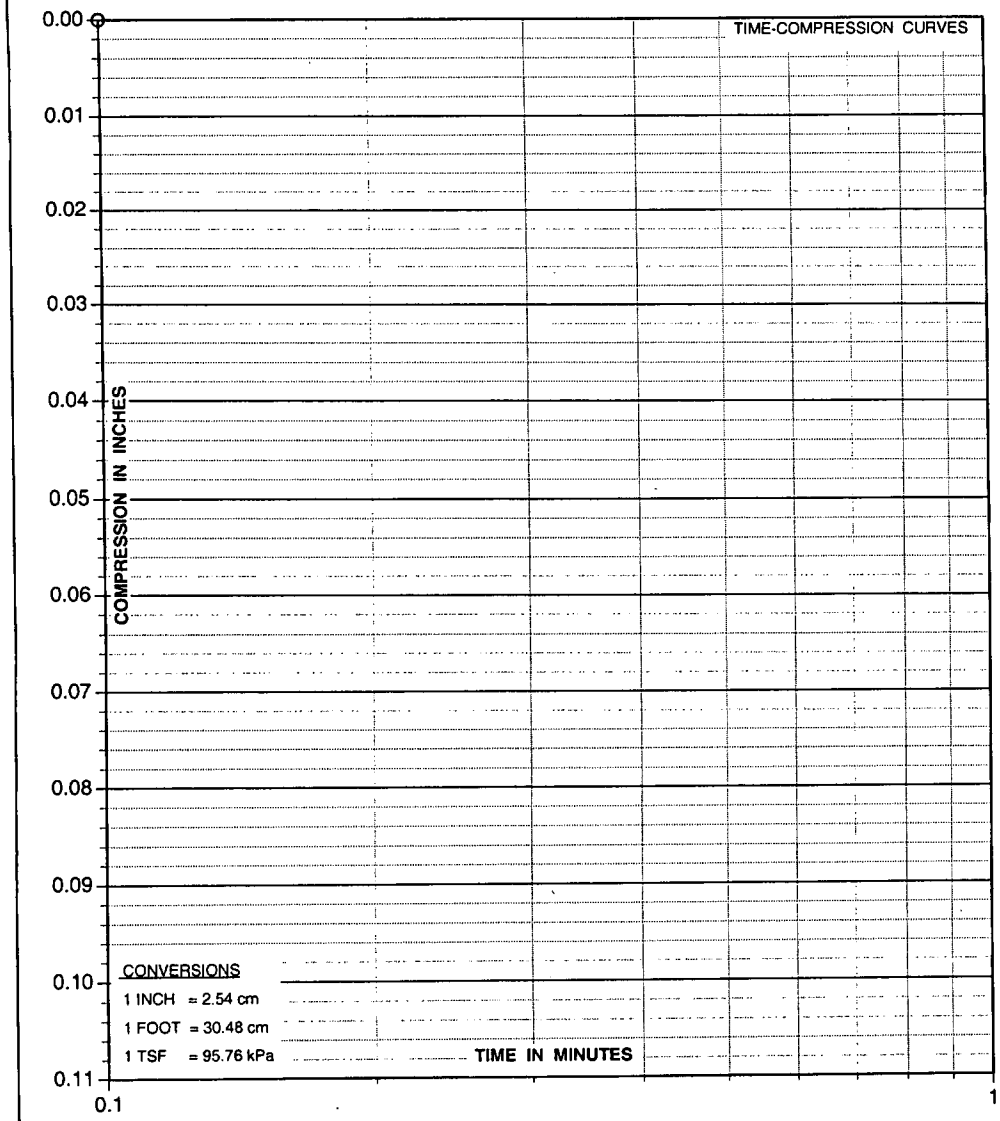
225 WEST 34TH STREET, NEW YORK, N.Y. 10122

MADE BY: MM DATE: 5-23-02 FILE NO.

CH'KD BY: AA DATE: 6-6-02 9726B

CONSOLIDATION TEST PLATE NO.

BORING NO. B-22 SAMPLE NO. 23 4



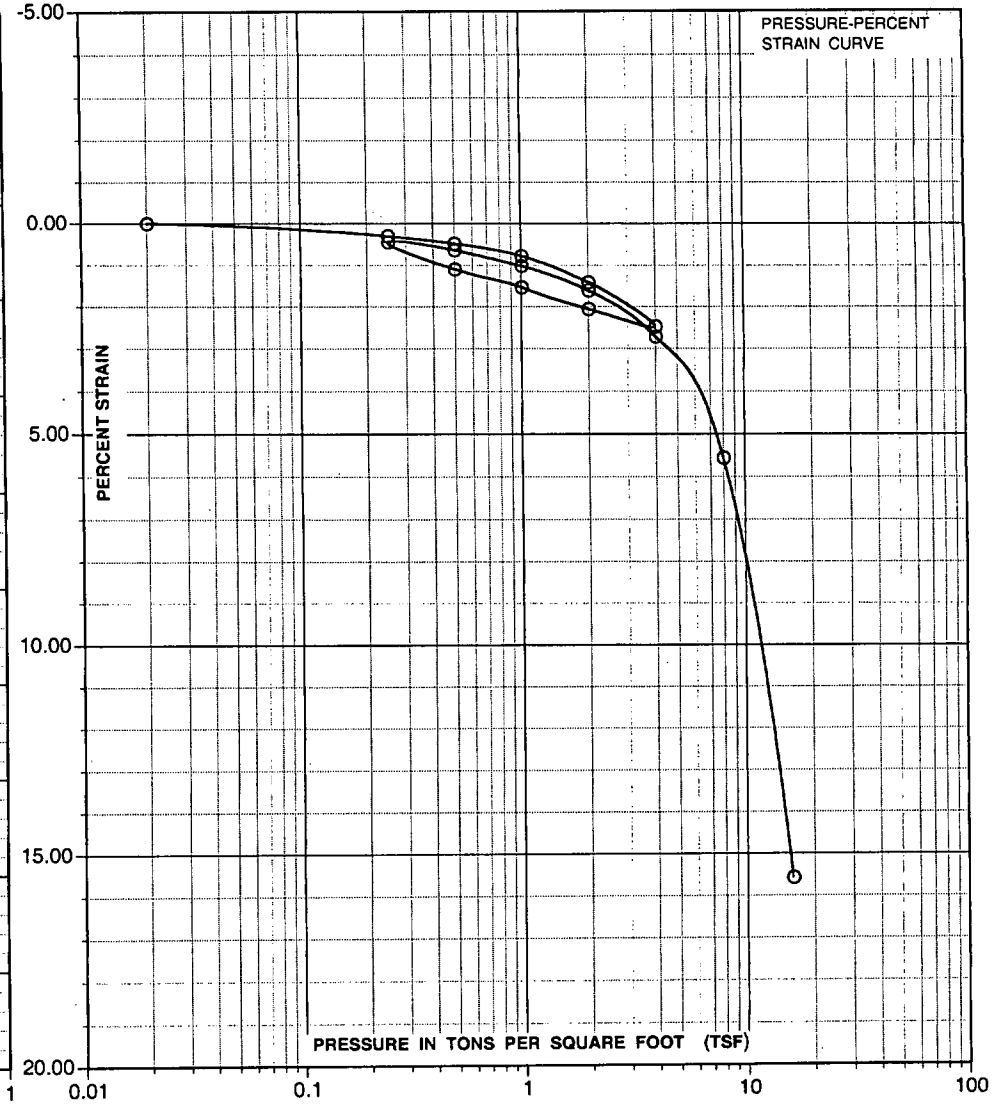


PLATE NO. 5

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT , w_L =
PLASTIC LIMIT , w_P =
PLASTICITY INDEX , I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY , G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 101
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 44
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO , e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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MUESER RUTLEDGE CONSULTING ENGINEERS

225 WEST 34TH STREET, NEW YORK, N.Y. 10122

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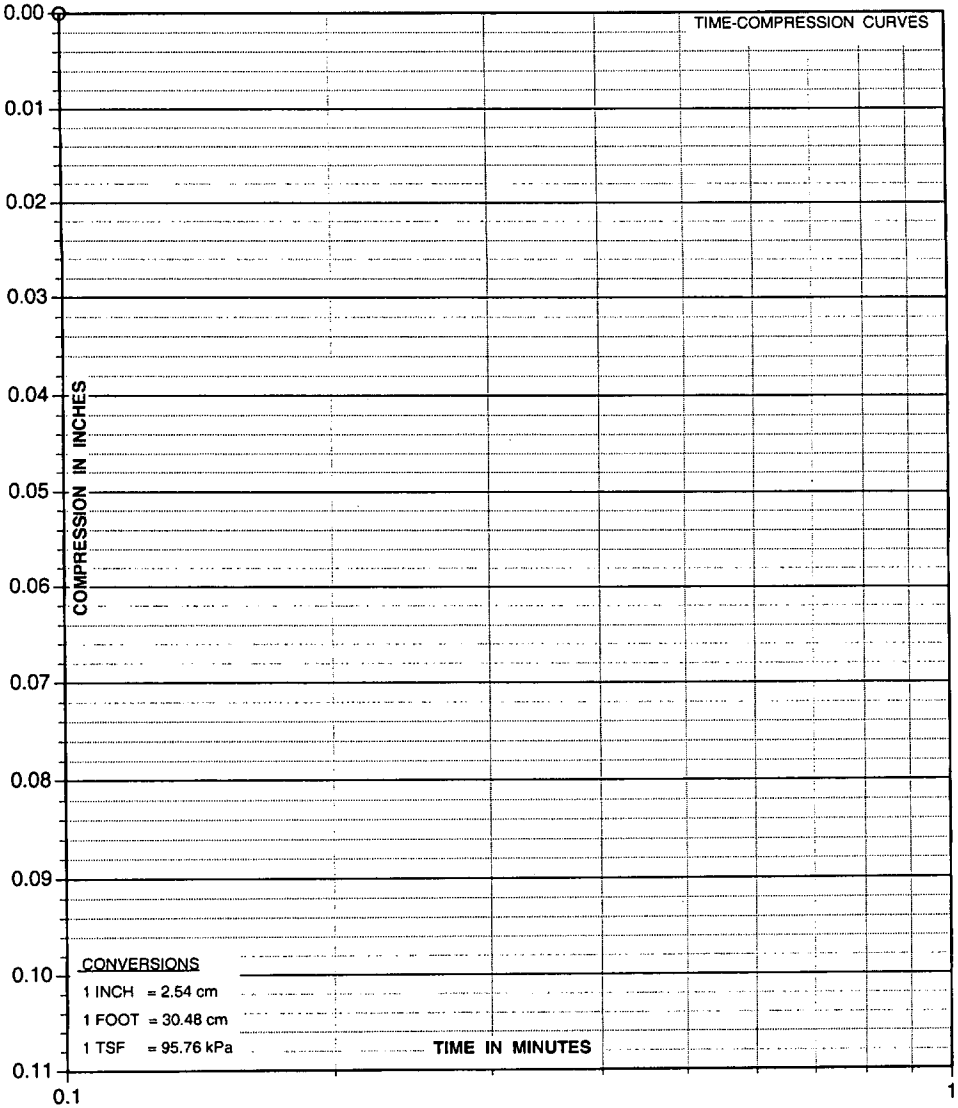
CONSOLIDATION TEST PLATE NO.

BORING NO. B-22 SAMPLE NO. 27 5



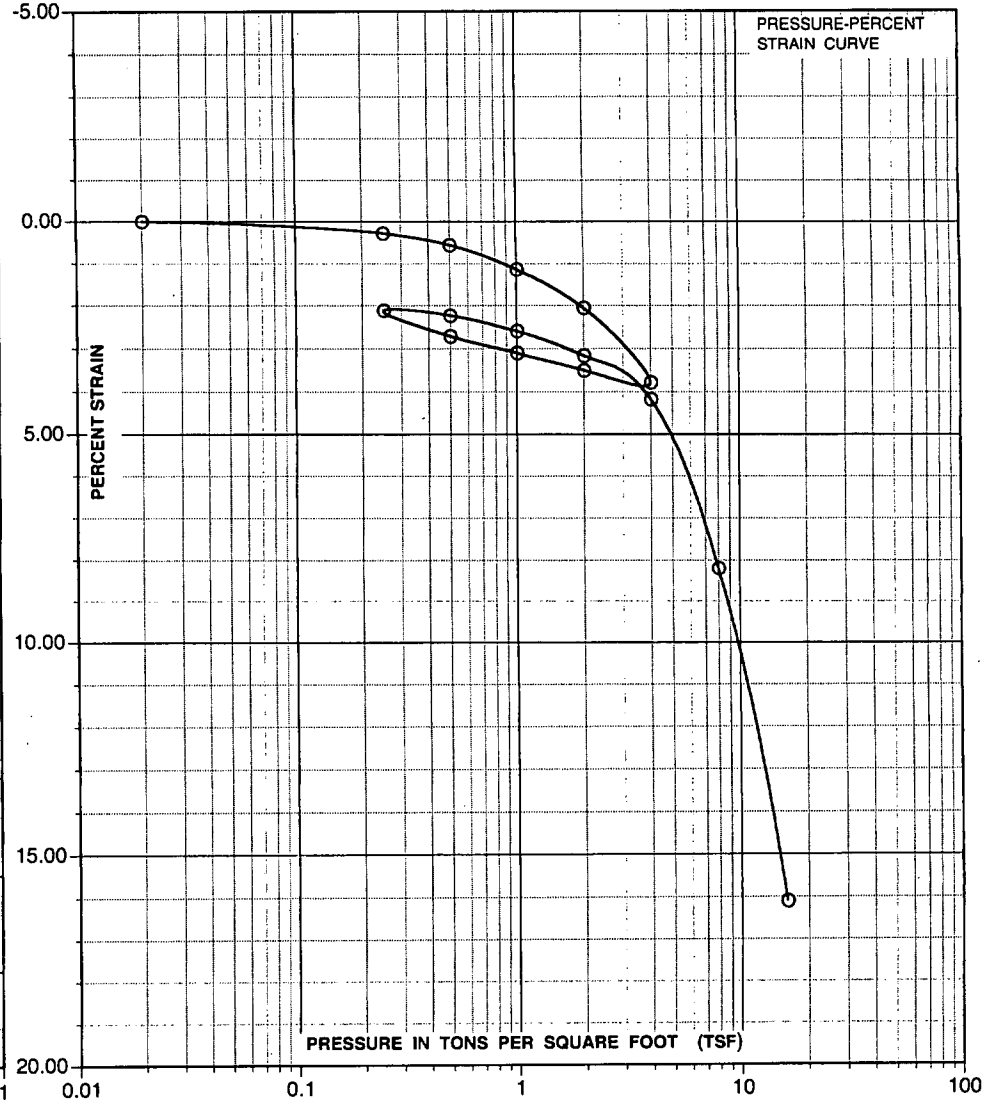


PLATE NO. 6

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 126

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 68
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 25
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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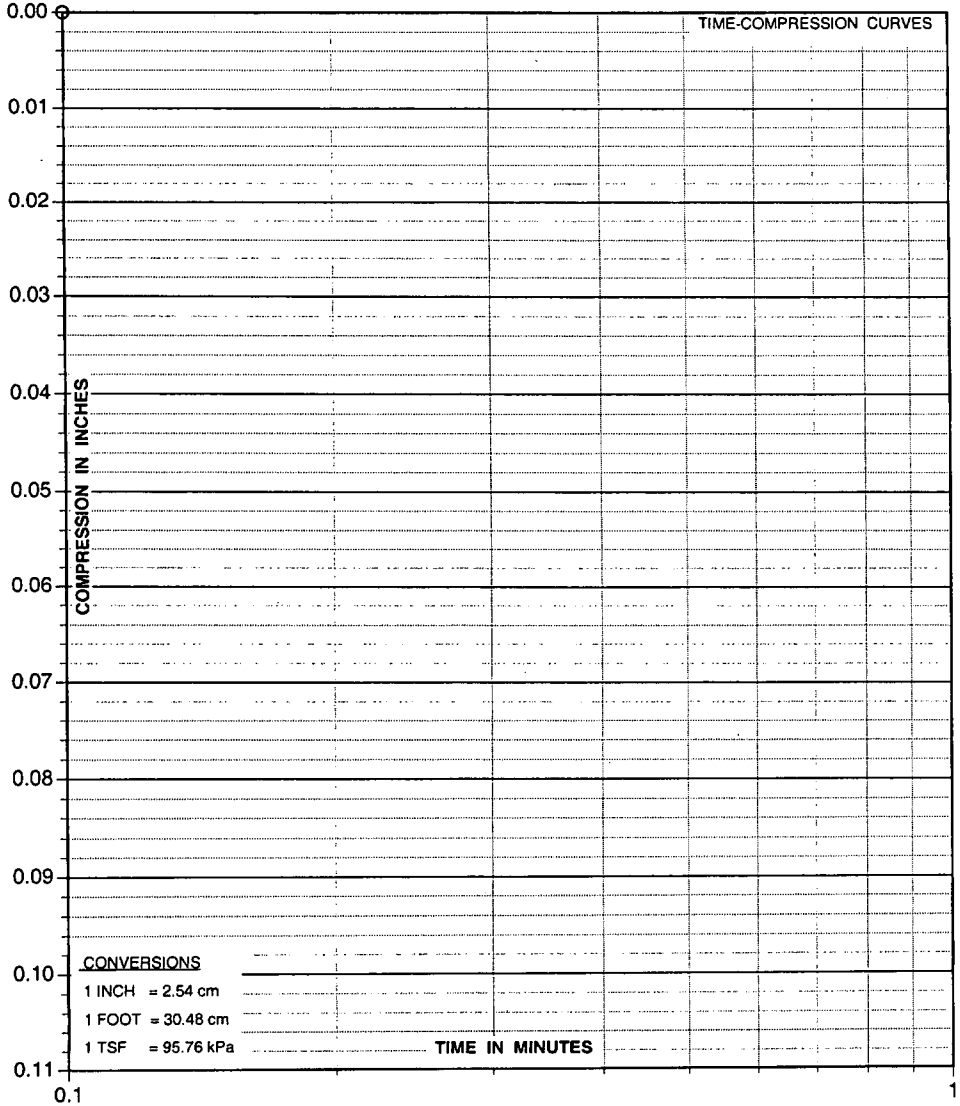
CONSOLIDATION TEST		PLATE NO.
BORING NO. B-23	SAMPLE NO. 17	6



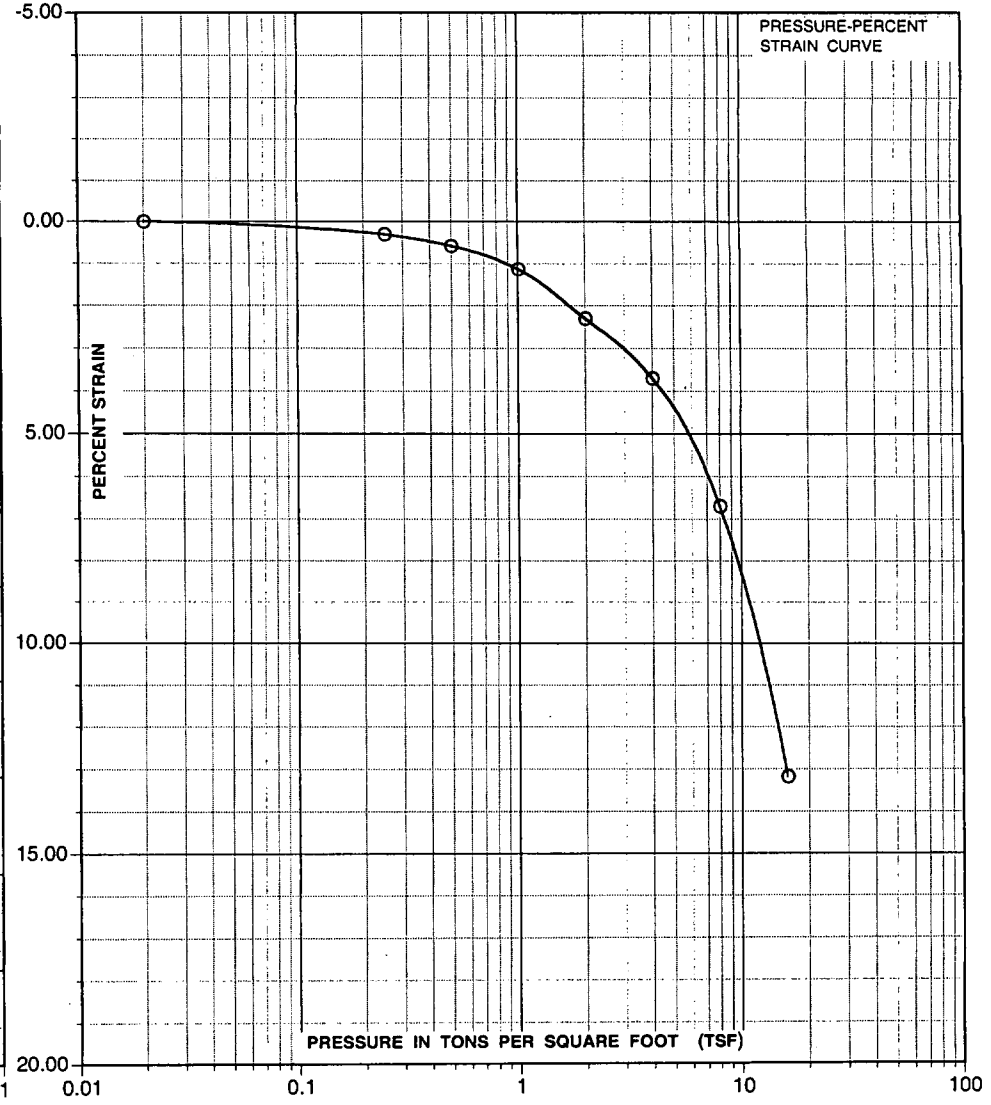


PLATE NO. 7

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 123

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 73
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 26
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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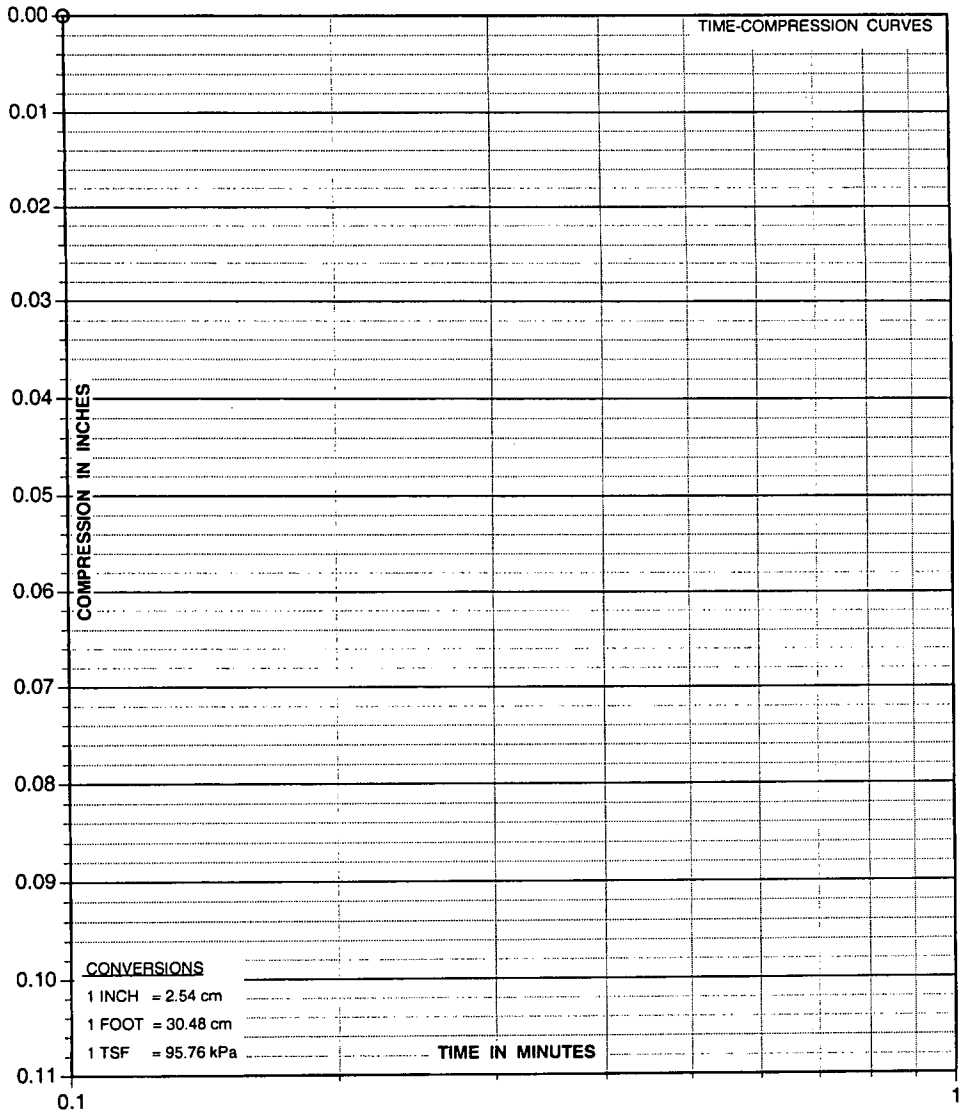
CONSOLIDATION TEST — PLATE NO. 7

BORING NO. B-23 SAMPLE NO. 18



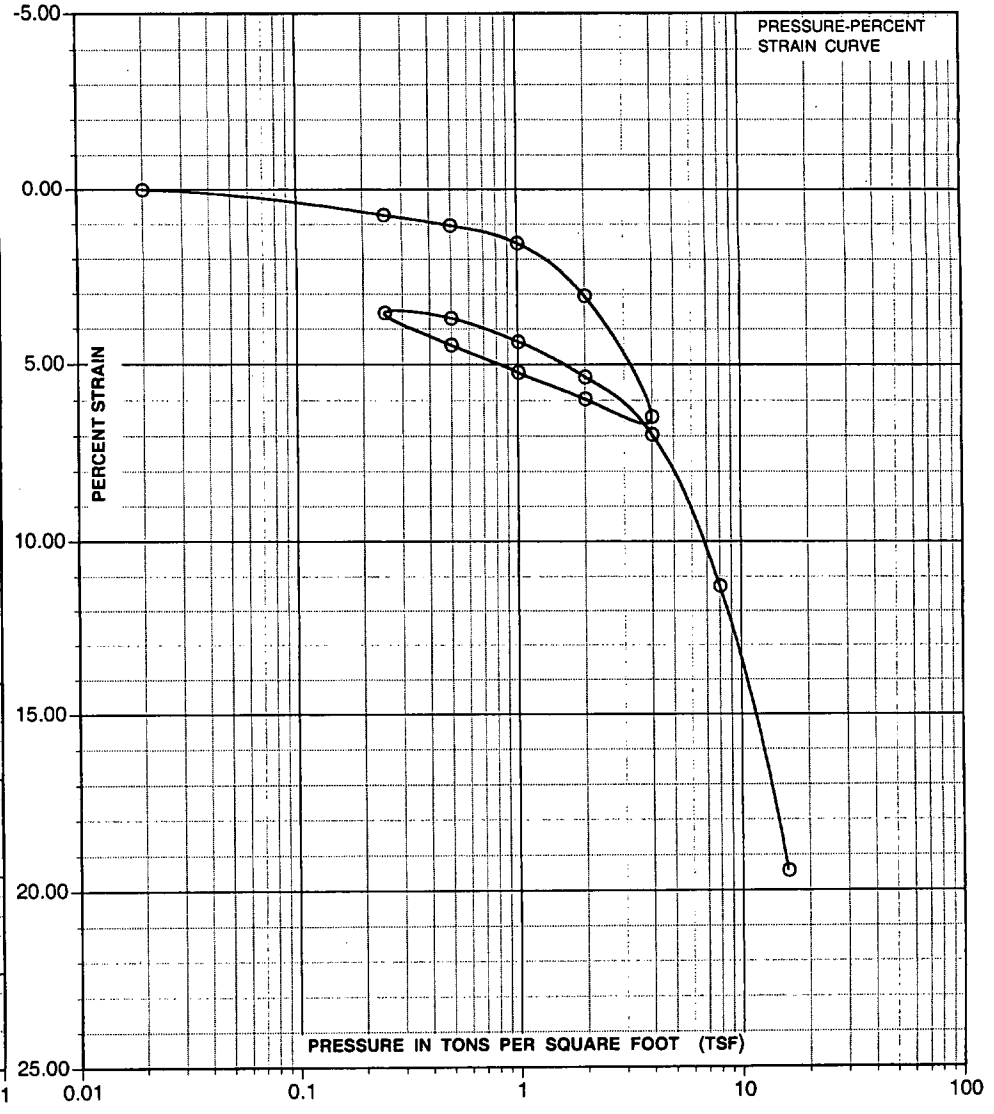


PLATE NO. 8

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - CL
LIQUID LIMIT, w_L = 47
PLASTIC LIMIT, w_P = 22
PLASTICITY INDEX, I_P = 25
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 120

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 78
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 32
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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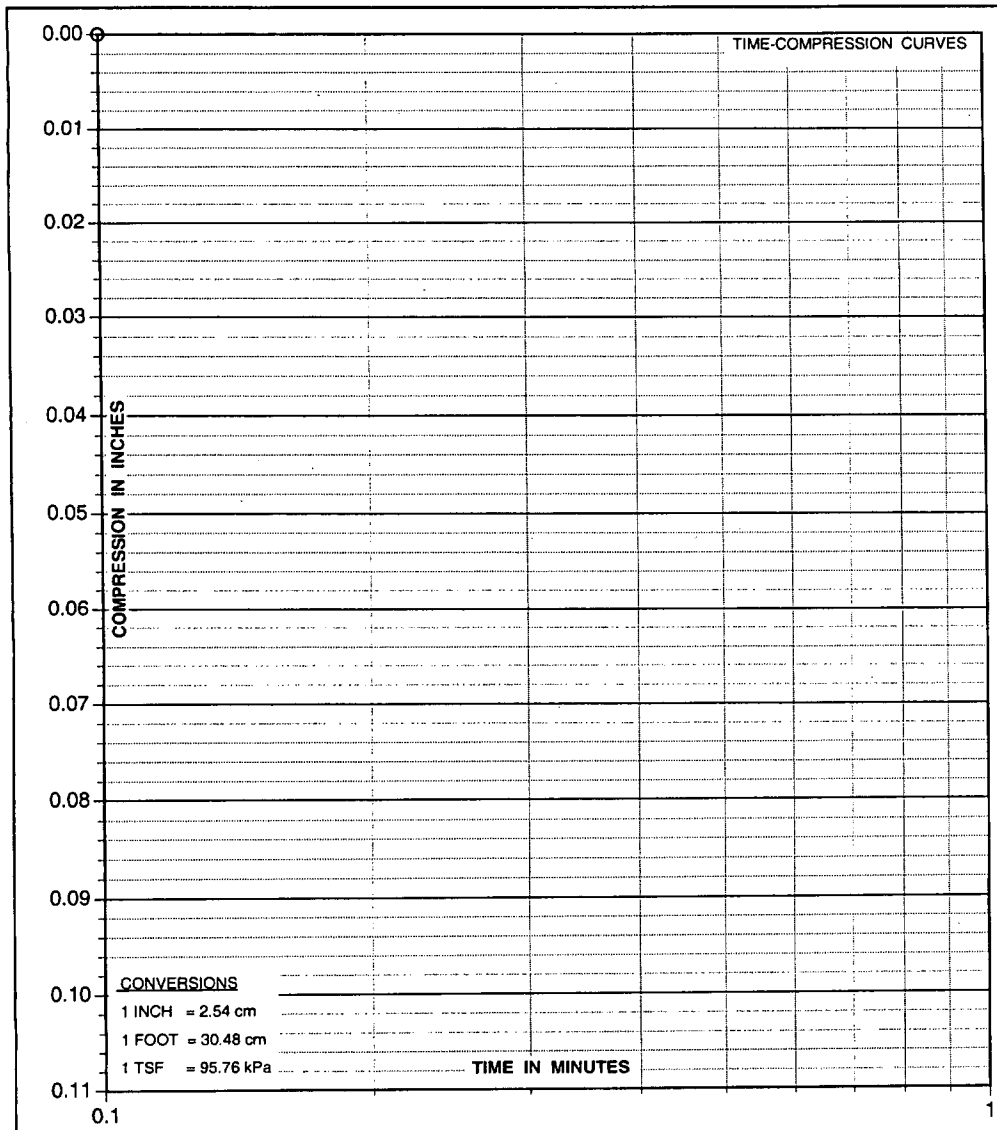
CONSOLIDATION TEST PLATE NO.

BORING NO. B-23 SAMPLE NO. 20 8



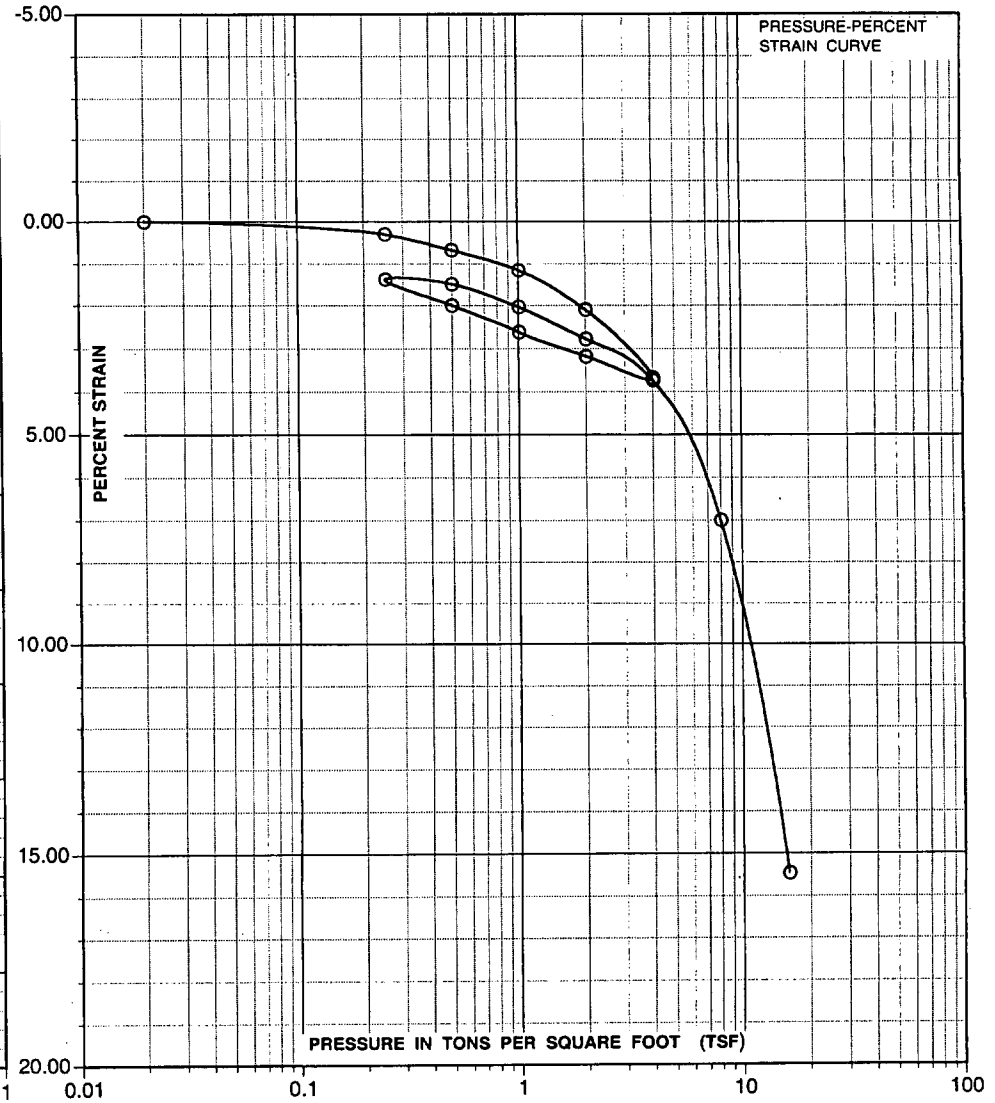


PLATE NO. 9

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
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④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 82
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 44
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_0 =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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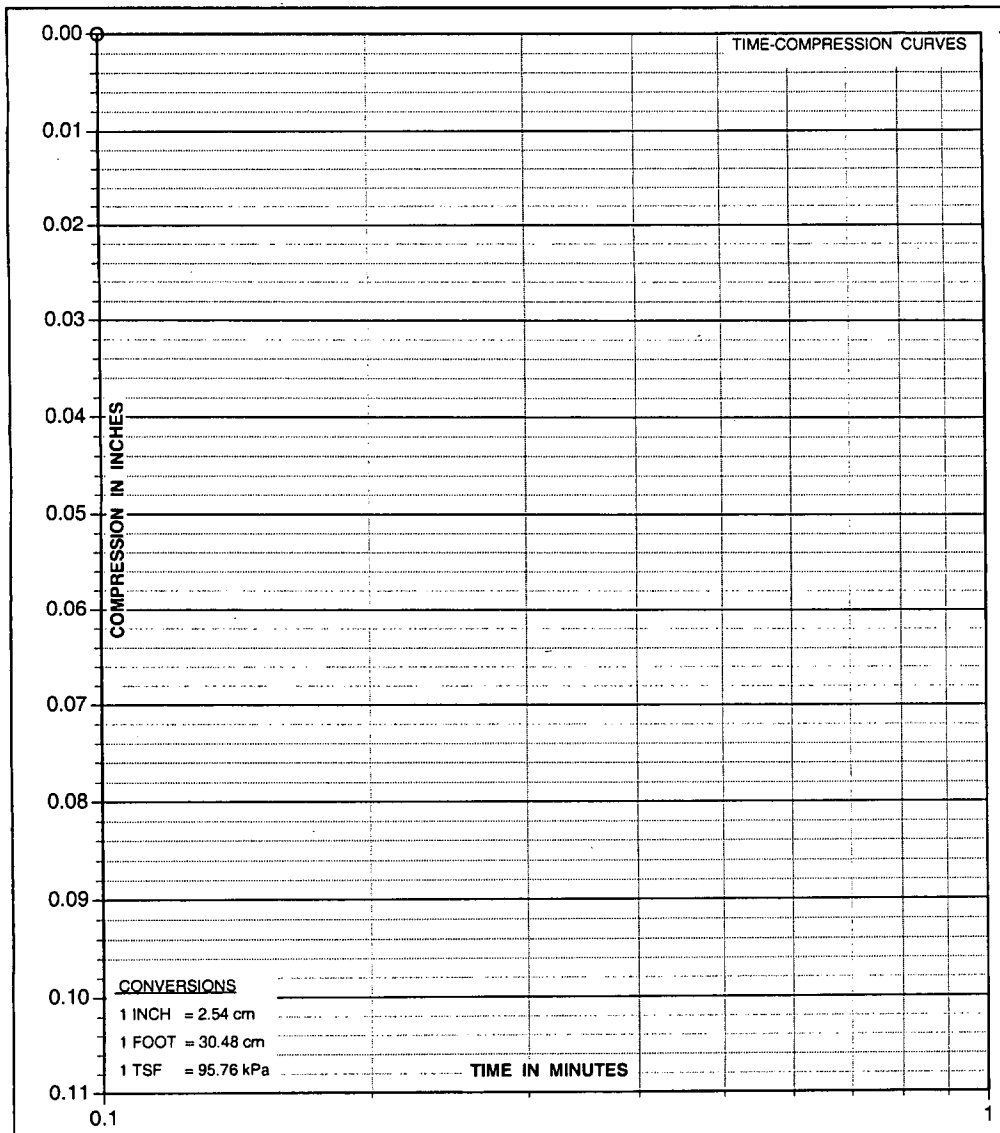
CONSOLIDATION TEST — PLATE NO. 9

BORING NO. B-23 SAMPLE NO. 22



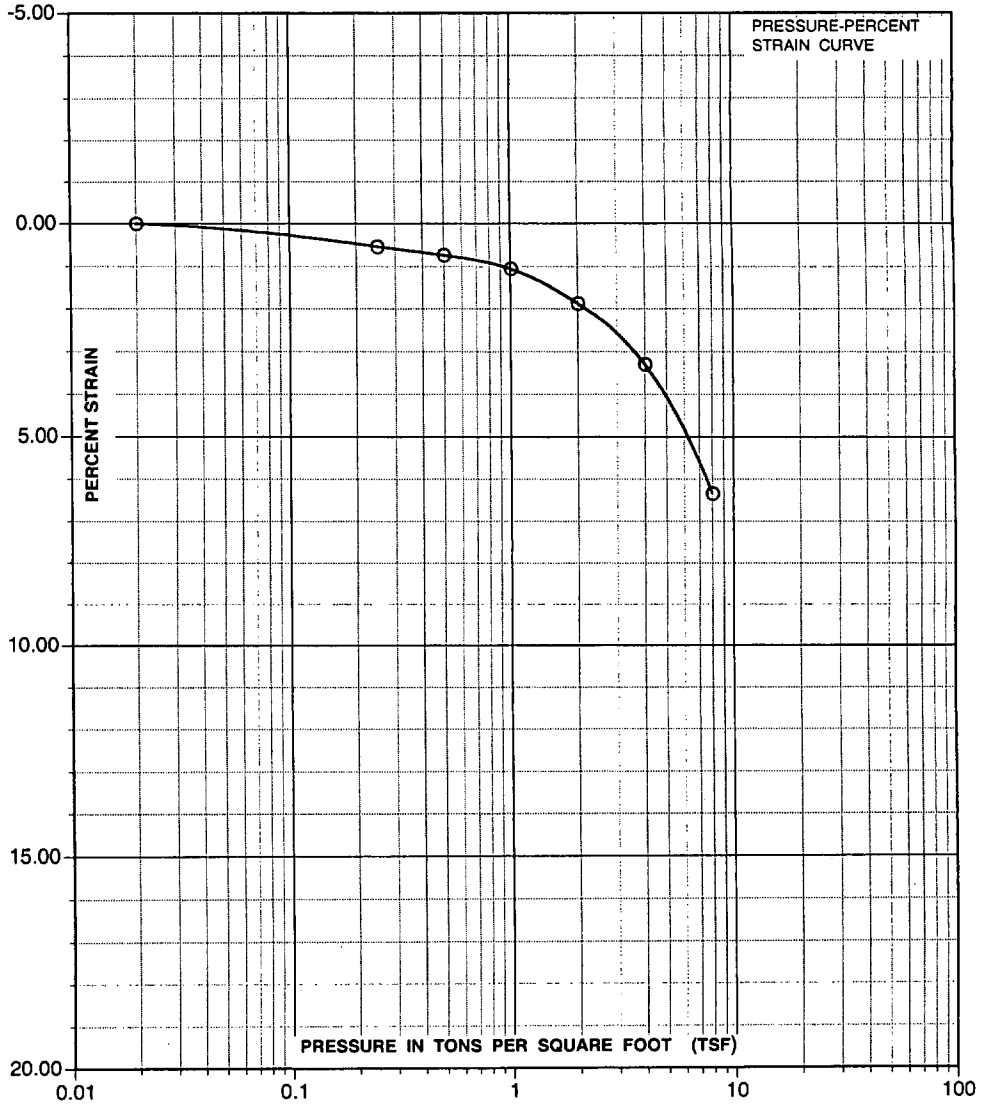


PLATE NO. 10

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
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⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

STRATUM

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 88
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 48
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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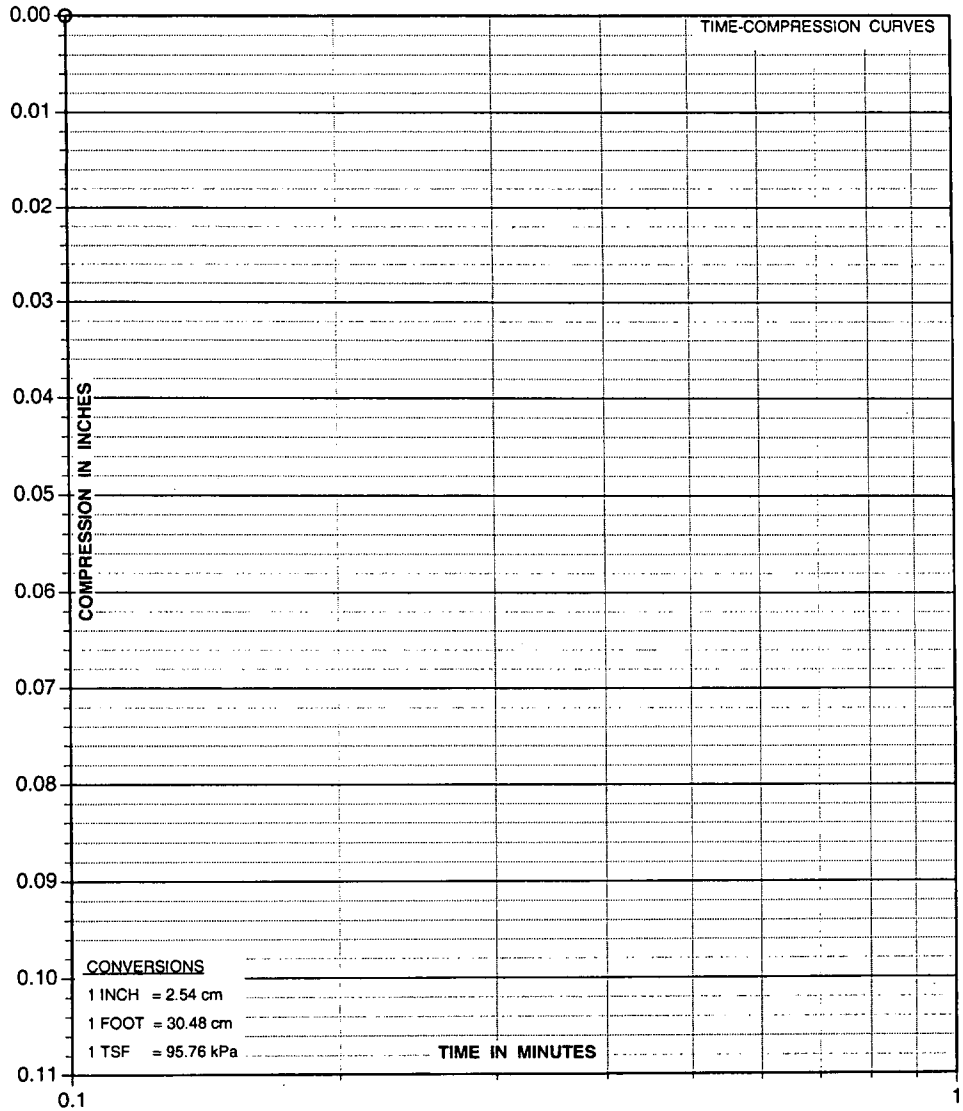
CONSOLIDATION TEST — PLATE NO. 10

BORING NO. B-23 SAMPLE NO. 24



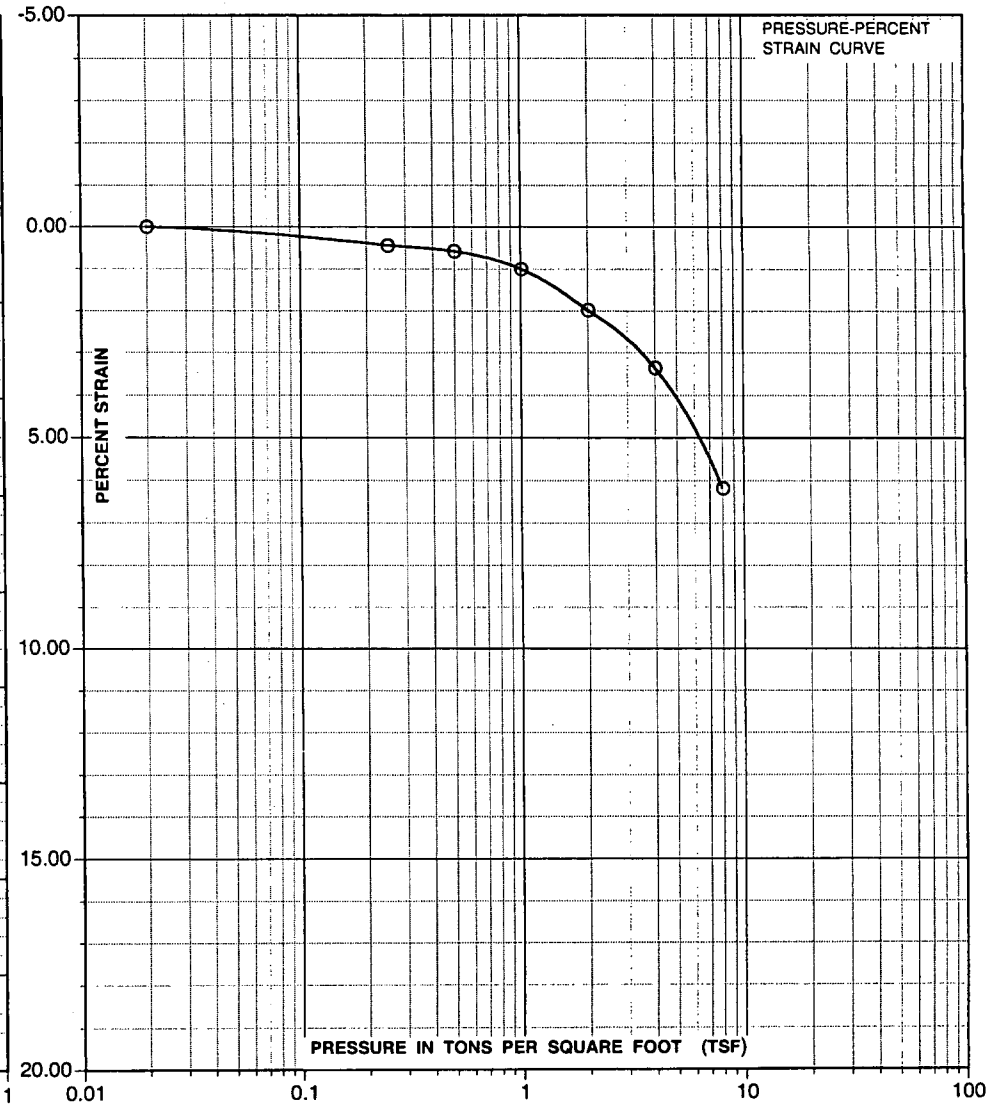


PLATE NO. 11

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT , w_L =
PLASTIC LIMIT , w_P =
PLASTICITY INDEX , I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY , G_s =
INITIAL DENSITY, lb/ft^3 = 107

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 92
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 44
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO , e_0 =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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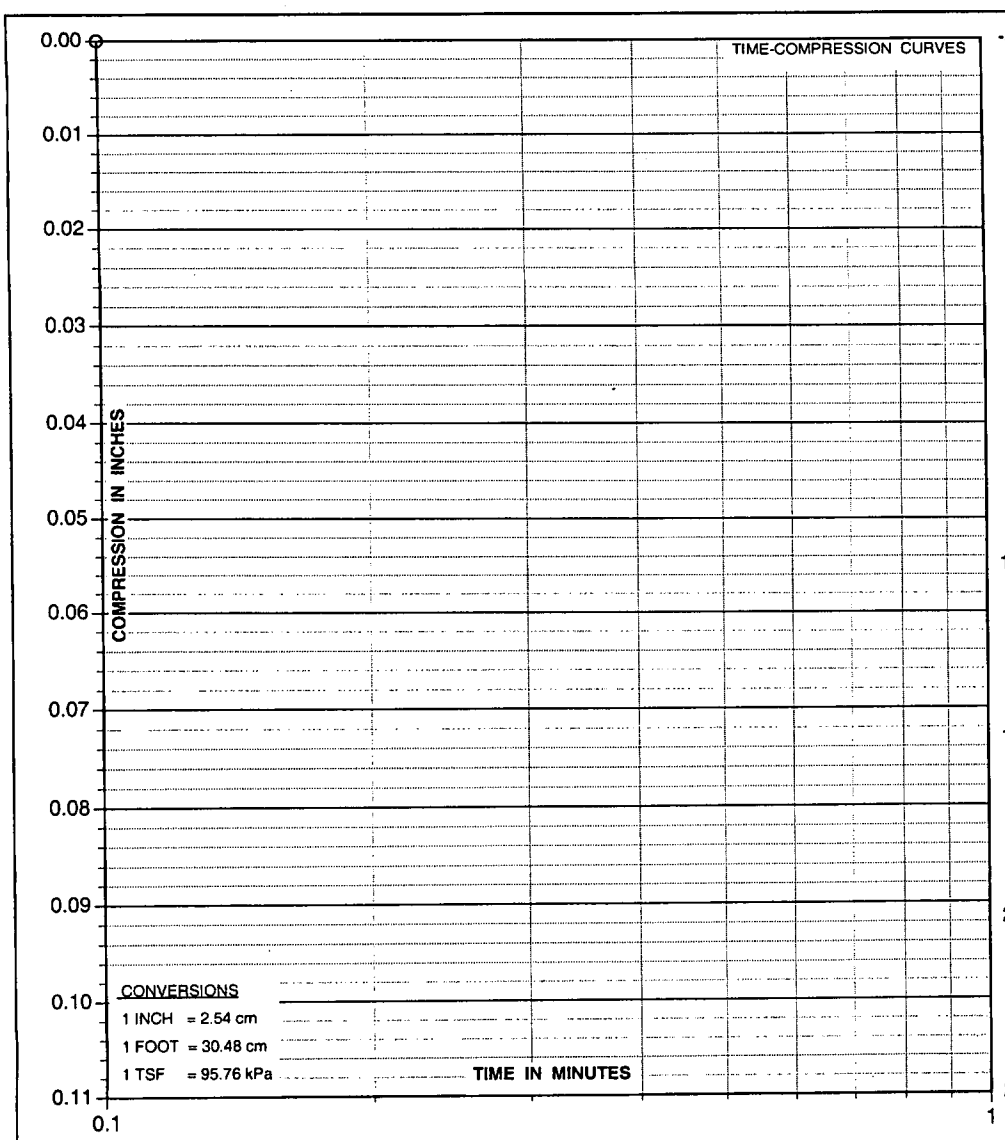
CONSOLIDATION TEST — PLATE NO. 11

BORING NO. B-23 SAMPLE NO. 26



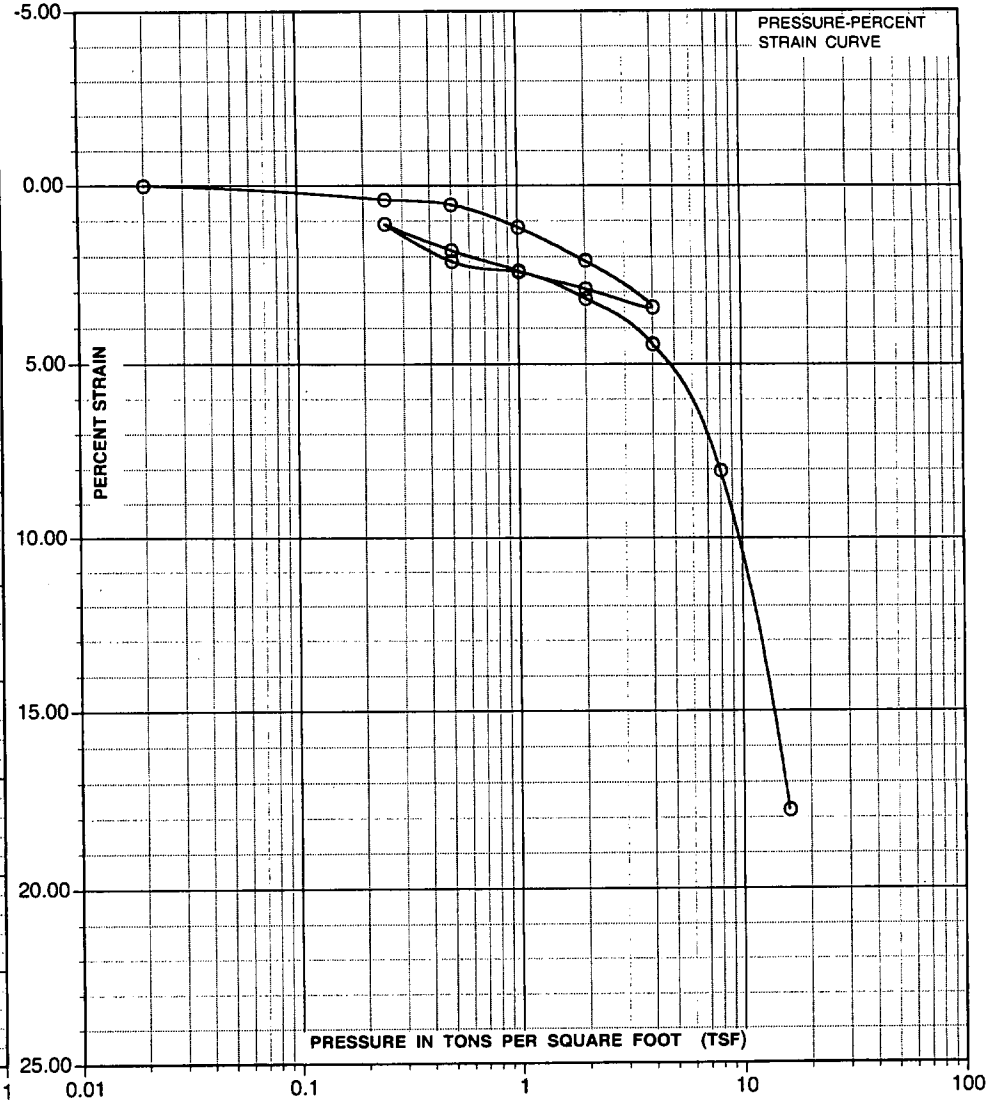


PLATE NO. 12

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - OH
LIQUID LIMIT, w_L = 73
PLASTIC LIMIT, w_P = 35
PLASTICITY INDEX, I_P = 38
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 107

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 97
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 49
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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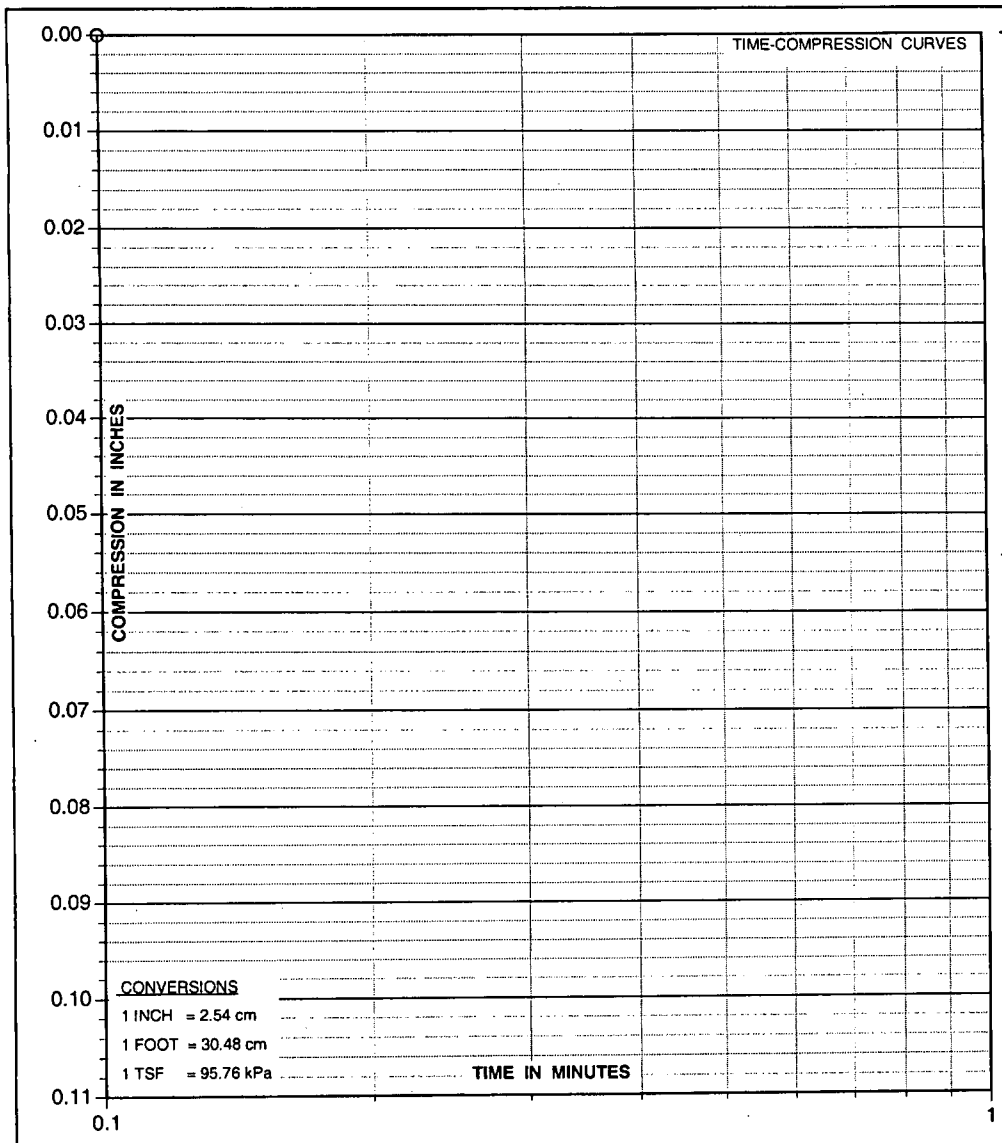
CONSOLIDATION TEST — PLATE NO. 12

BORING NO. B-23 SAMPLE NO. 28



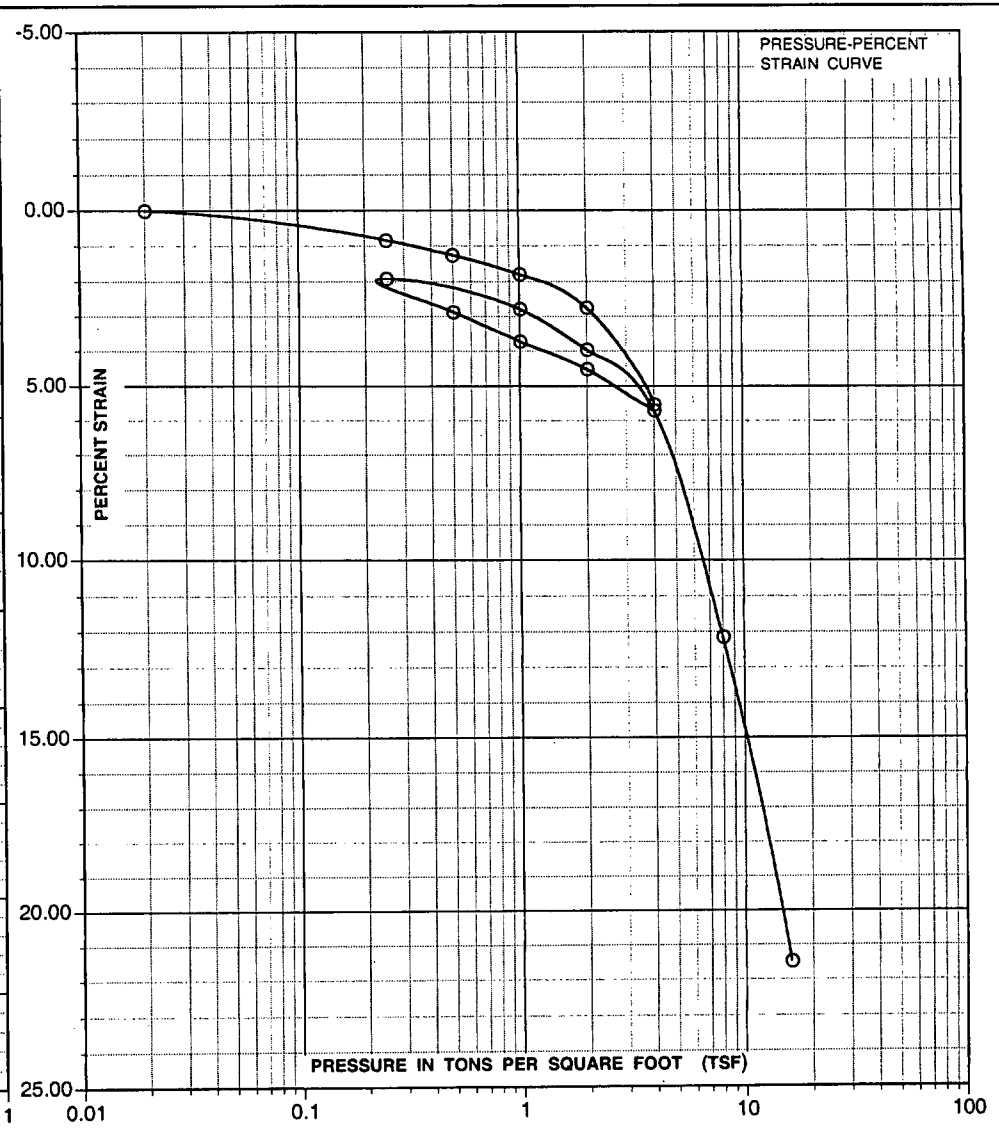


PLATE NO. 13

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 102

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 83
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 55
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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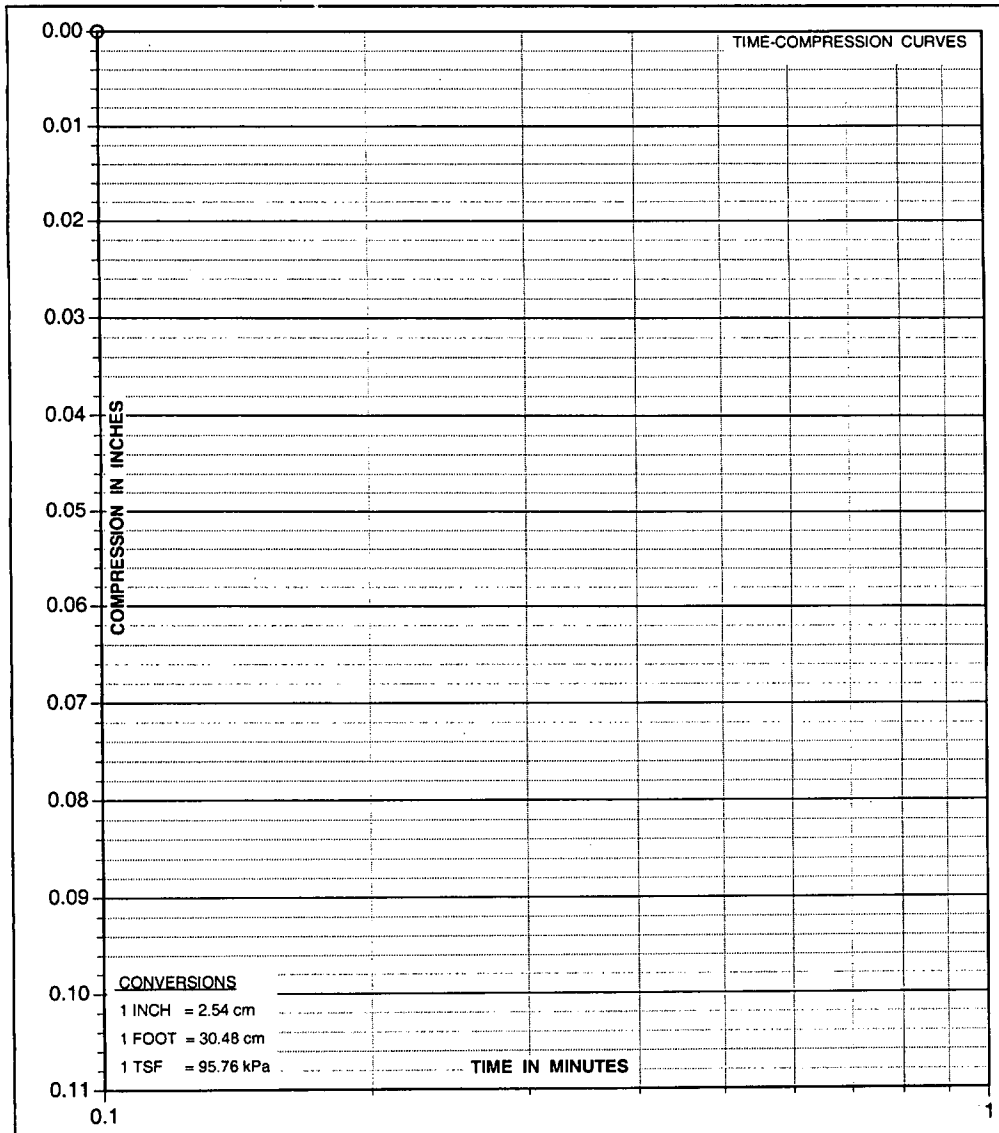
CH'KD BY: AA	DATE: 6-6-02	9726B

CONSOLIDATION TEST — PLATE NO. 13

BORING NO. B-24 SAMPLE NO. 16



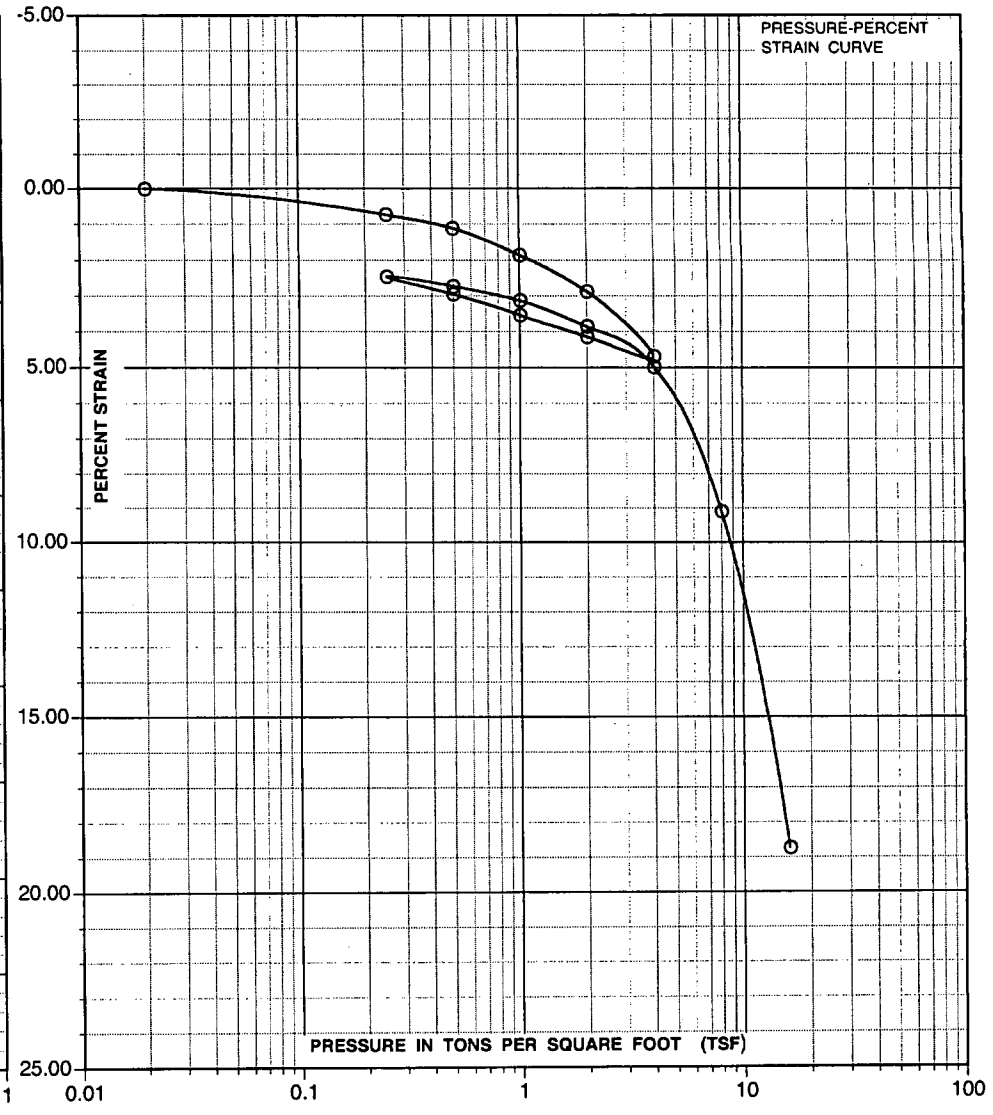


PLATE NO. 14

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 90

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 88
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 75
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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MUESER RUTLEDGE CONSULTING ENGINEERS

225 WEST 34TH STREET, NEW YORK, N.Y. 10122

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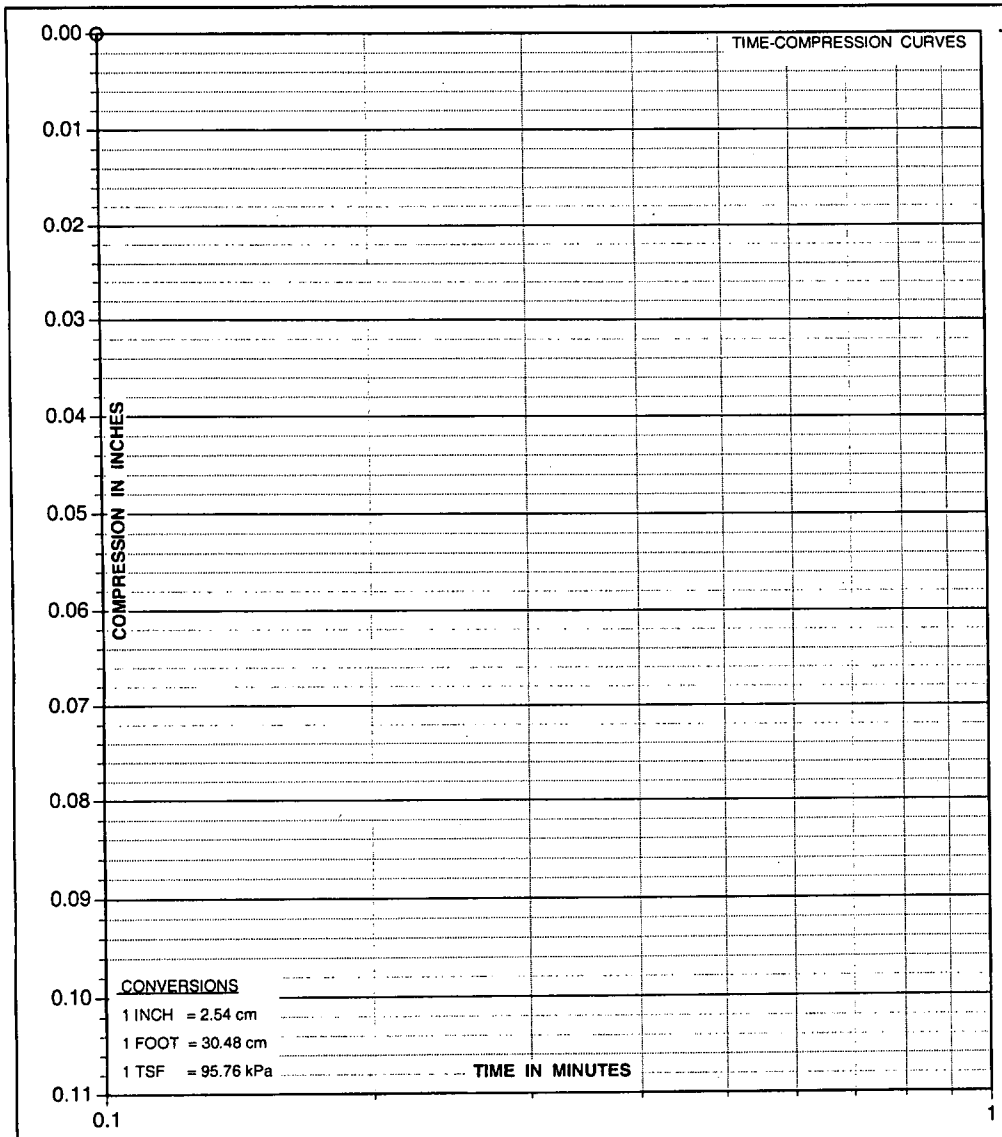
CONSOLIDATION TEST — PLATE NO. 14

BORING NO. B-24 SAMPLE NO. 18



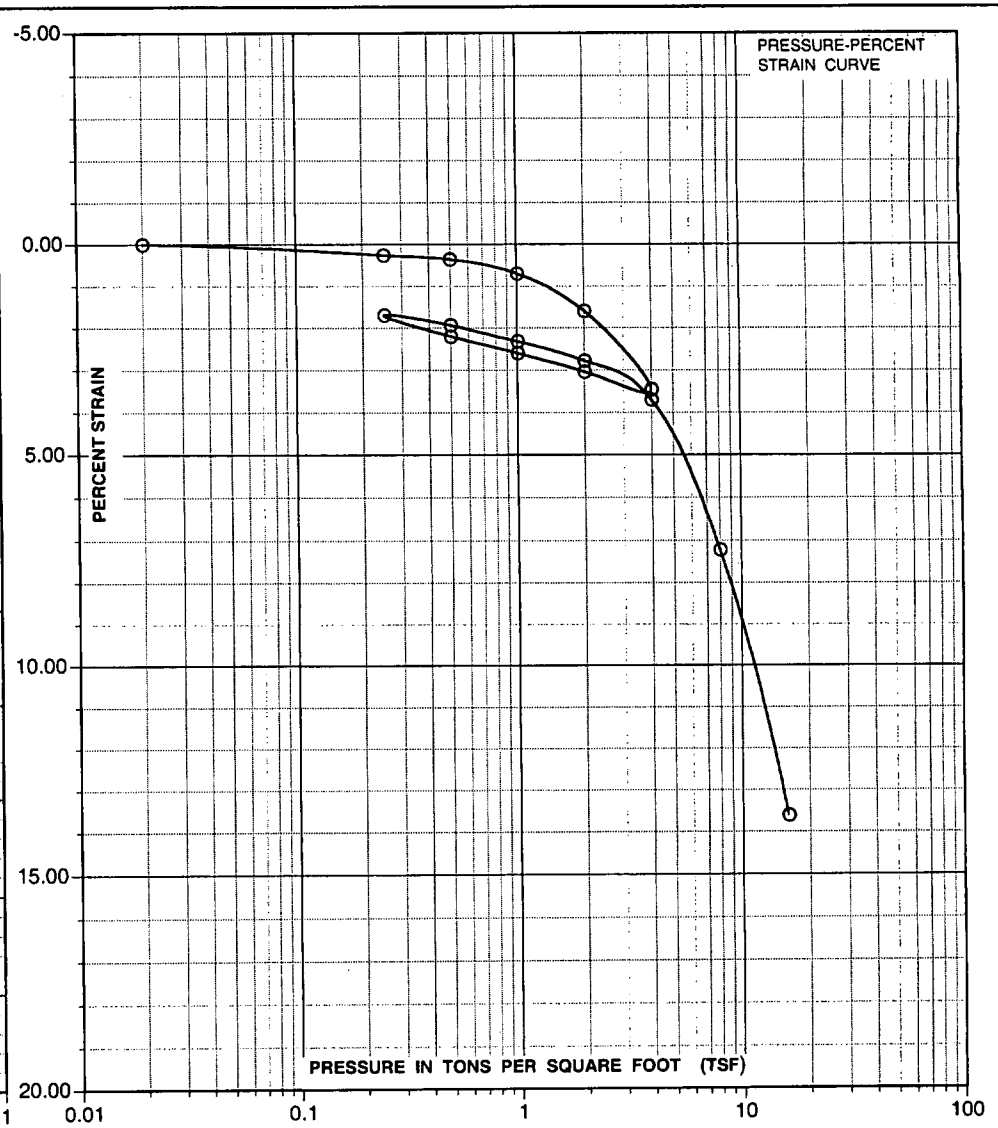


PLATE NO. 15

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - OH/CH
LIQUID LIMIT, w_L = 65
PLASTIC LIMIT, w_P = 32
PLASTICITY INDEX, I_P = 33
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 95
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 42
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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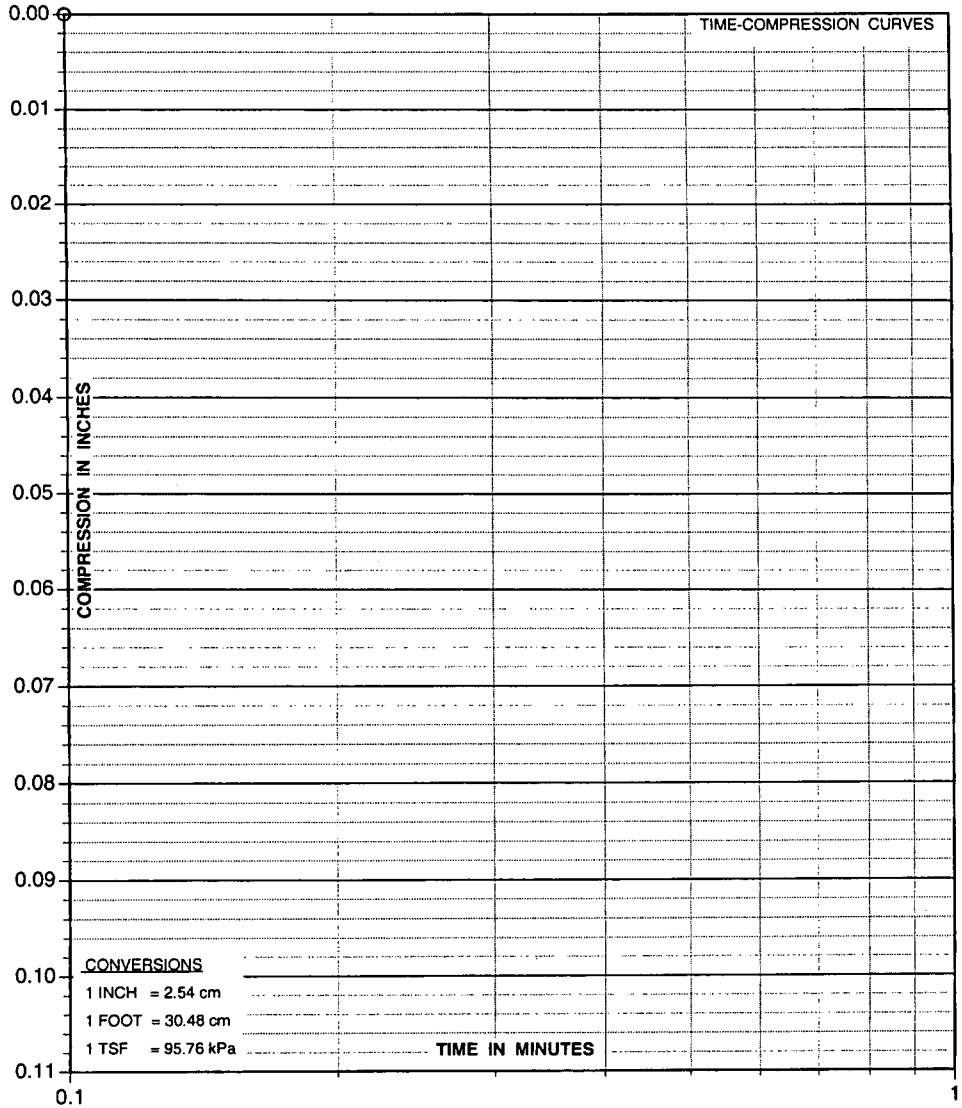
CONSOLIDATION TEST — PLATE NO. 15

BORING NO. B-24 SAMPLE NO. 20



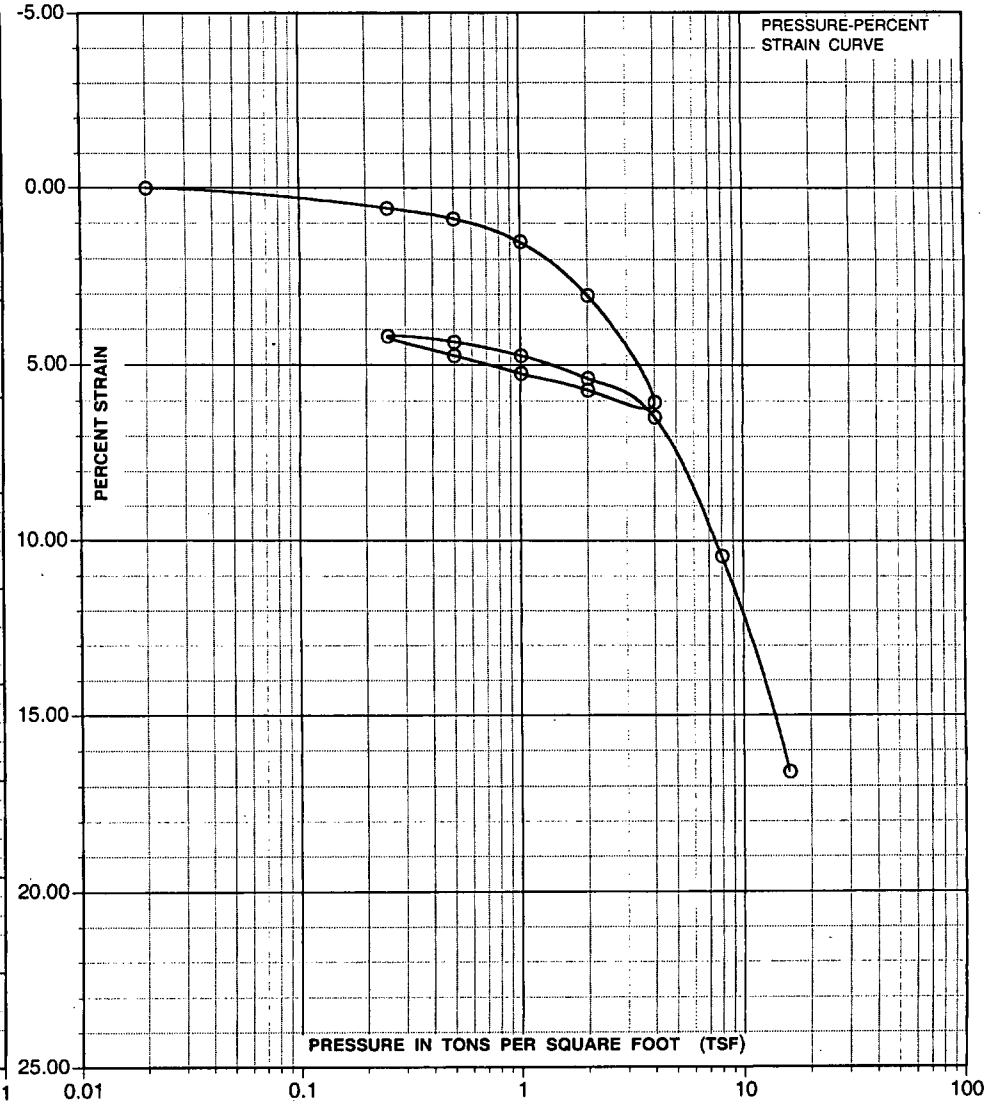


PLATE NO. 16

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 99
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 43
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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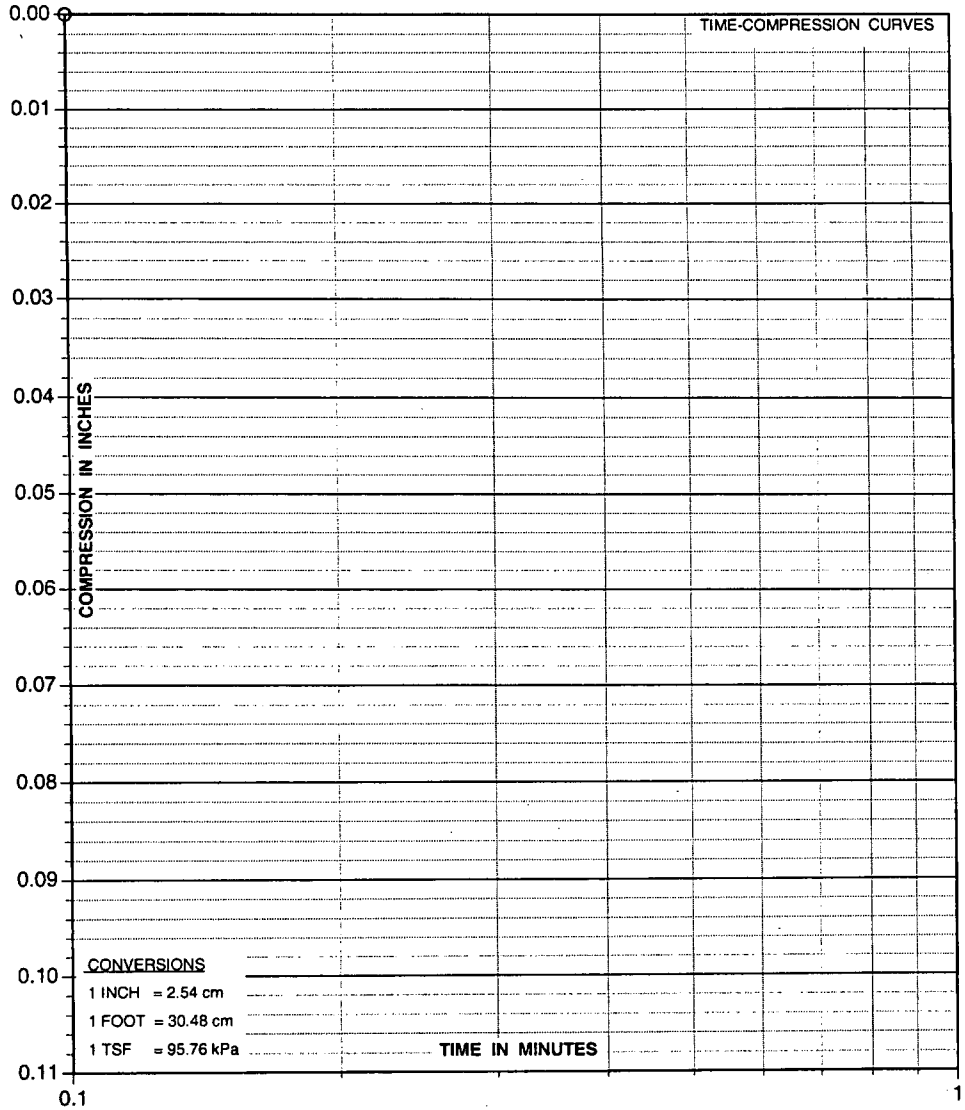
CONSOLIDATION TEST — PLATE NO. 16

BORING NO. B-24 SAMPLE NO. 22



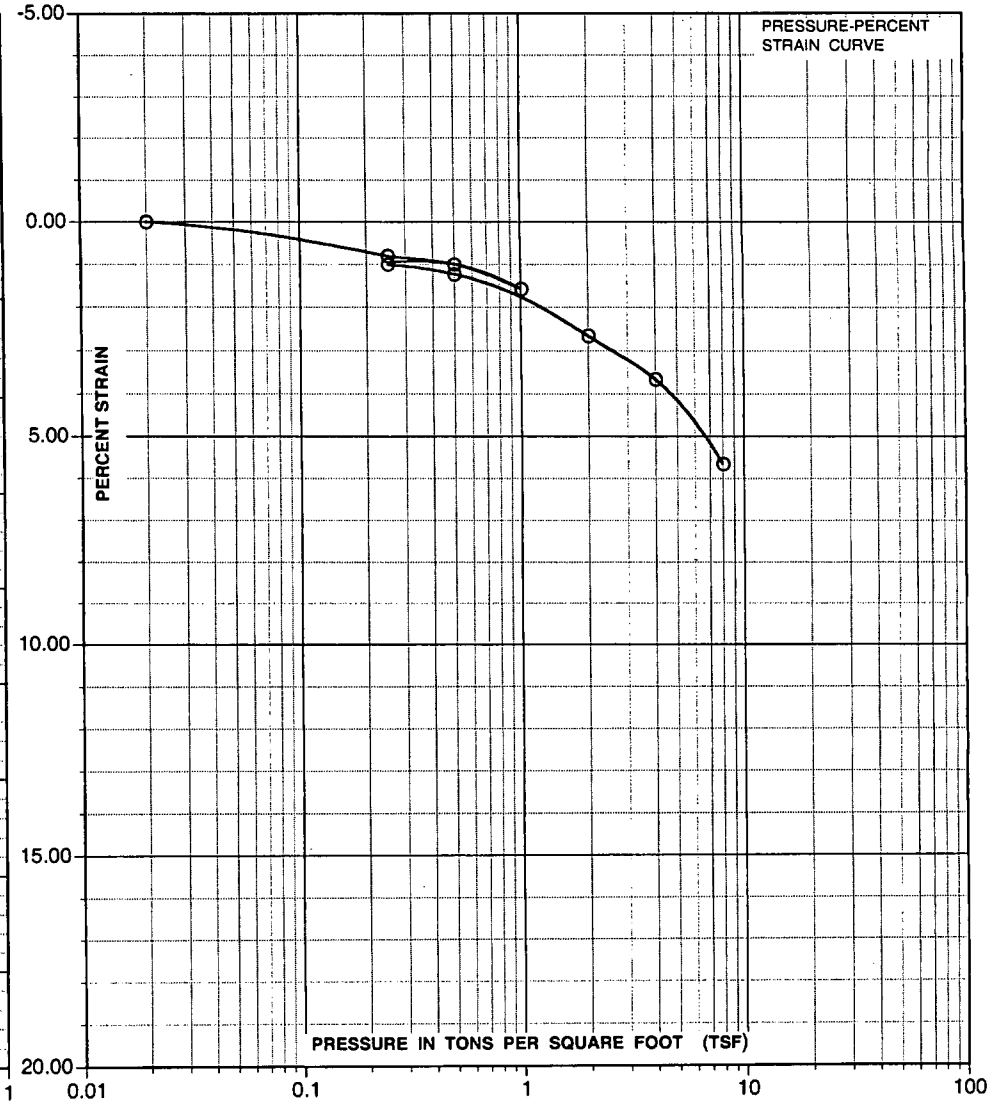


PLATE NO. 17

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
1		
2		
3		
4		
5		
6		
7		
8		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 125

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 15
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 18
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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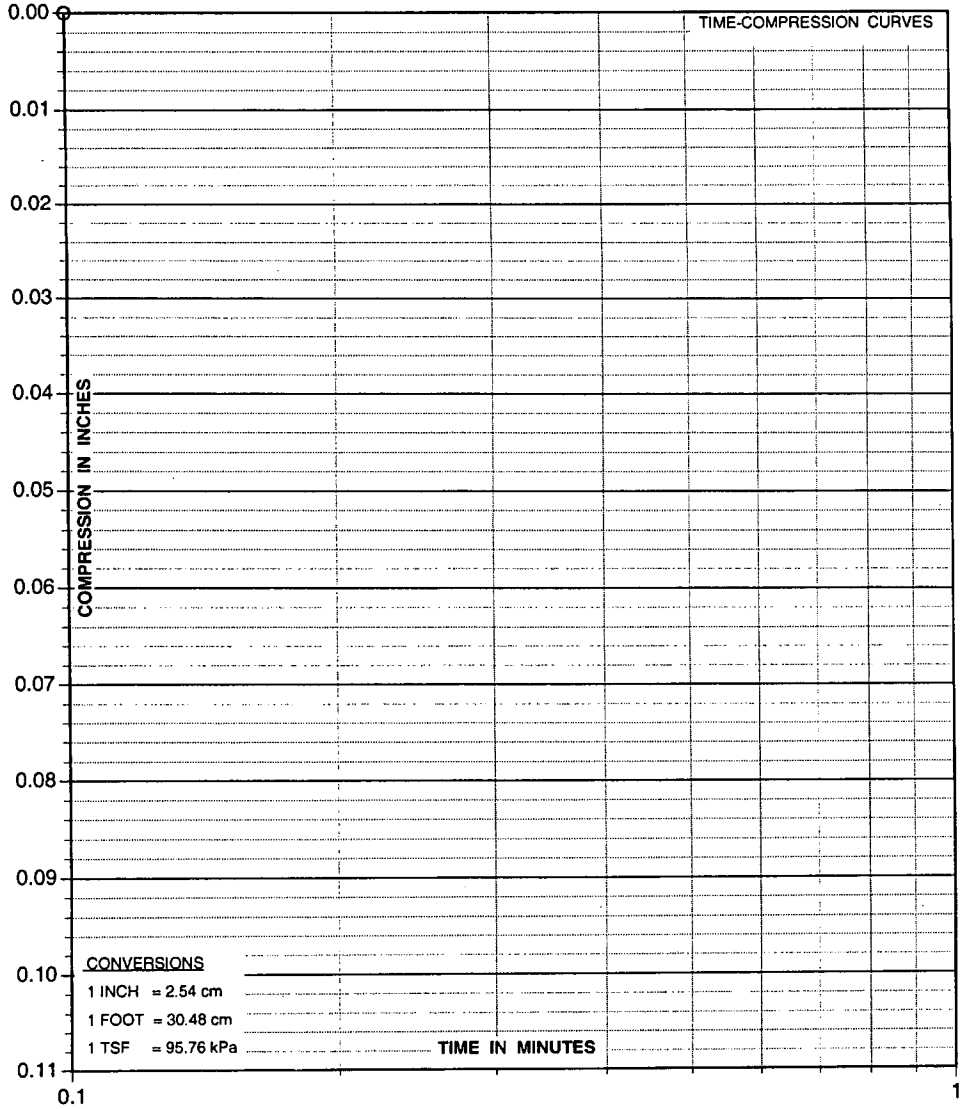
CONSOLIDATION TEST — PLATE NO. 17

BORING NO. B-25 SAMPLE NO. 5



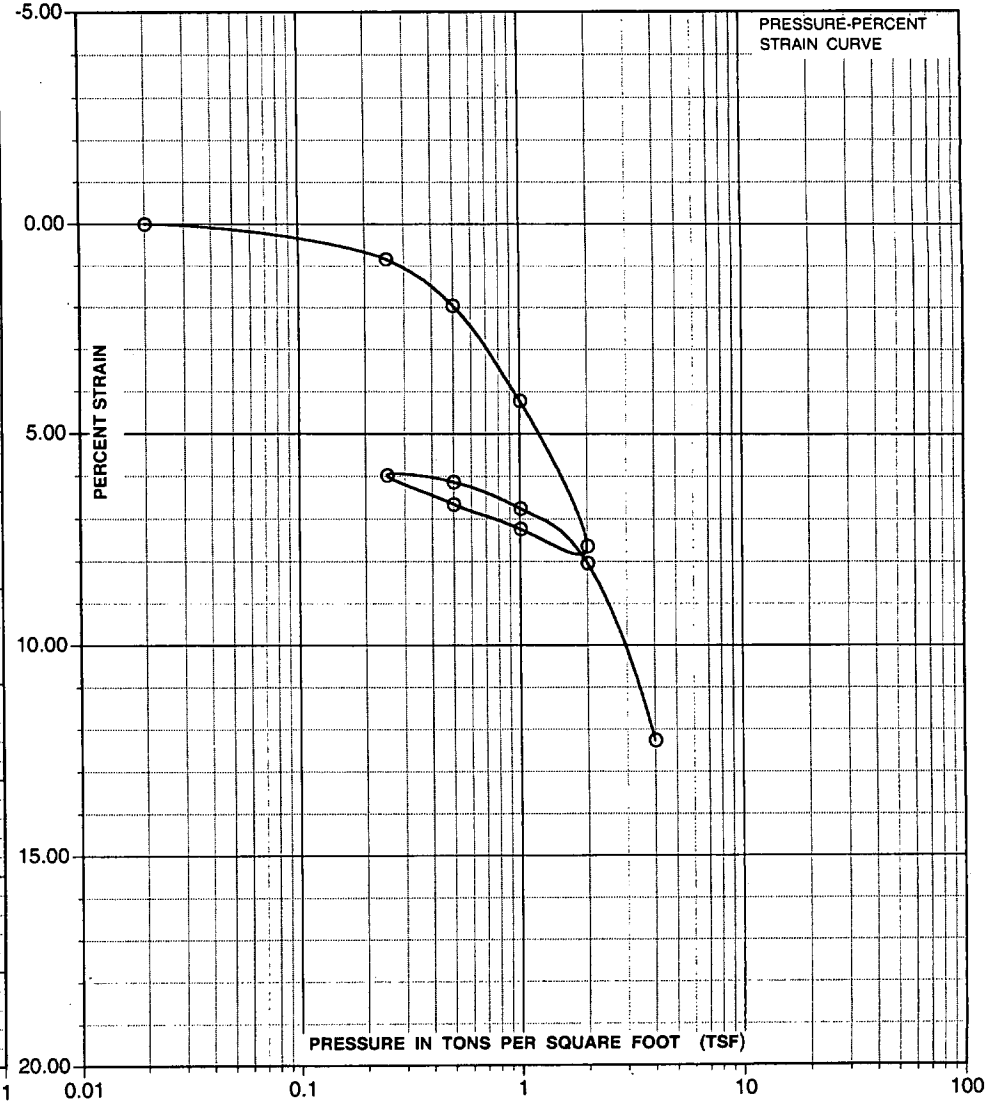


PLATE NO. 18

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 116

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 17
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 31
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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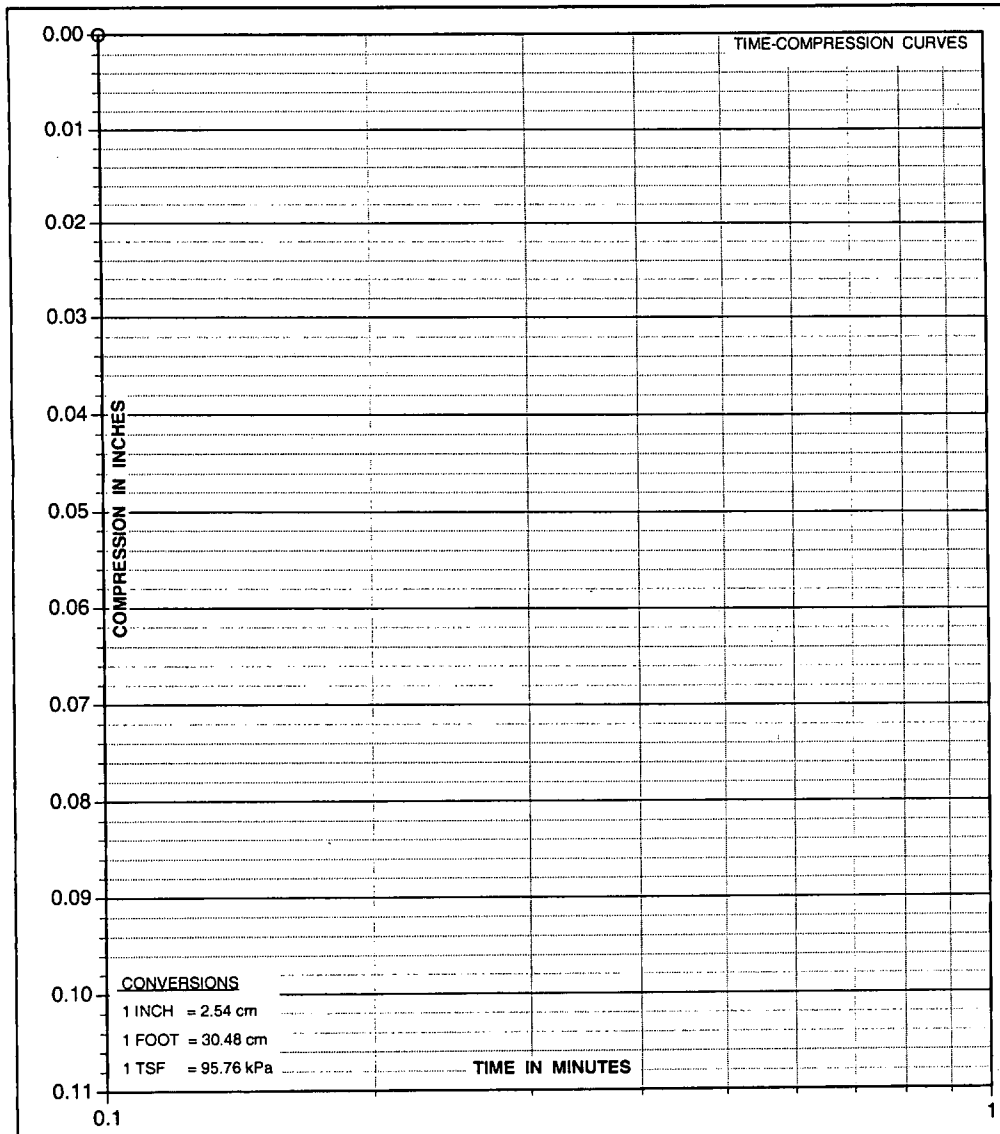
CONSOLIDATION TEST — PLATE NO. 18

BORING NO. B-26 SAMPLE NO. 6



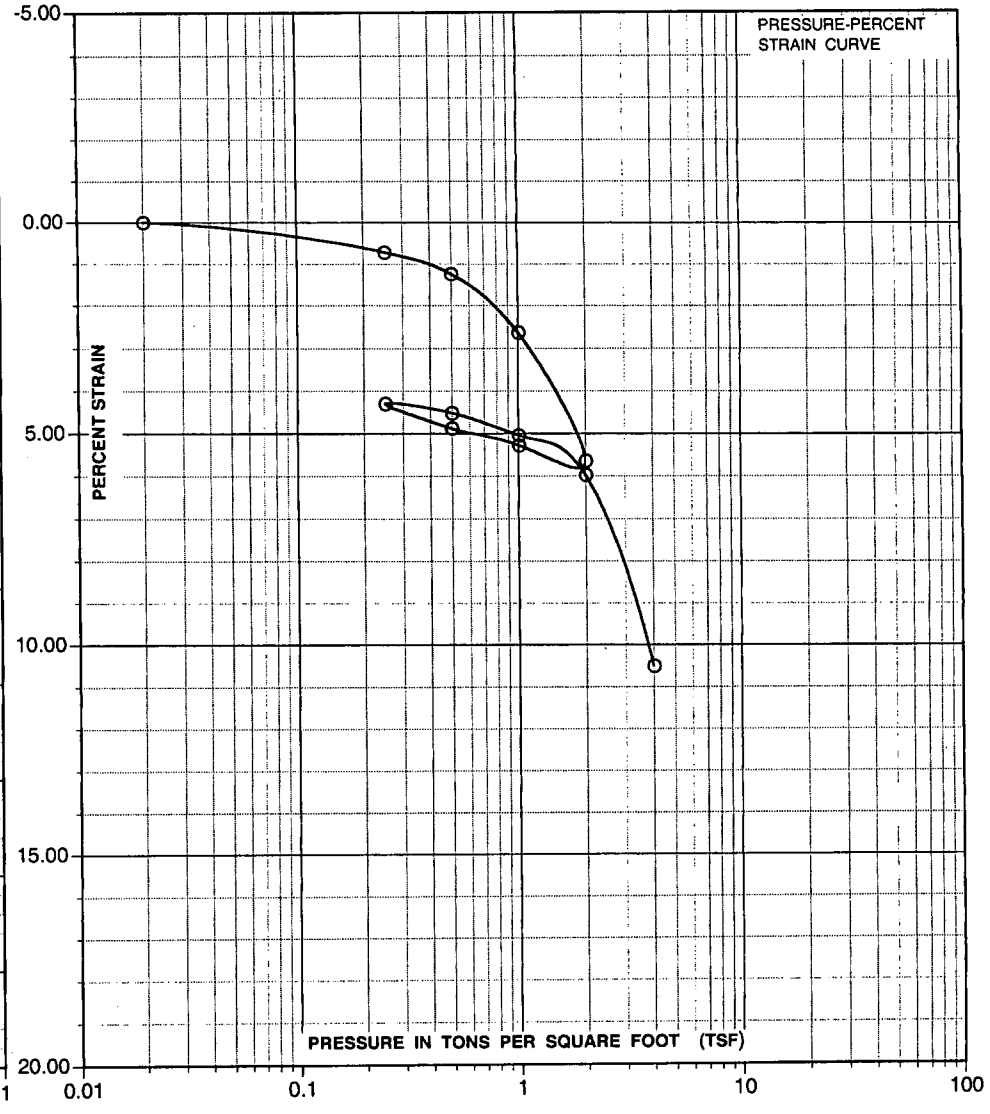


PLATE NO. 19

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - OH
LIQUID LIMIT, w_L = 65
PLASTIC LIMIT, w_P = 33
PLASTICITY INDEX, I_P = 32
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 105

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 44
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 49
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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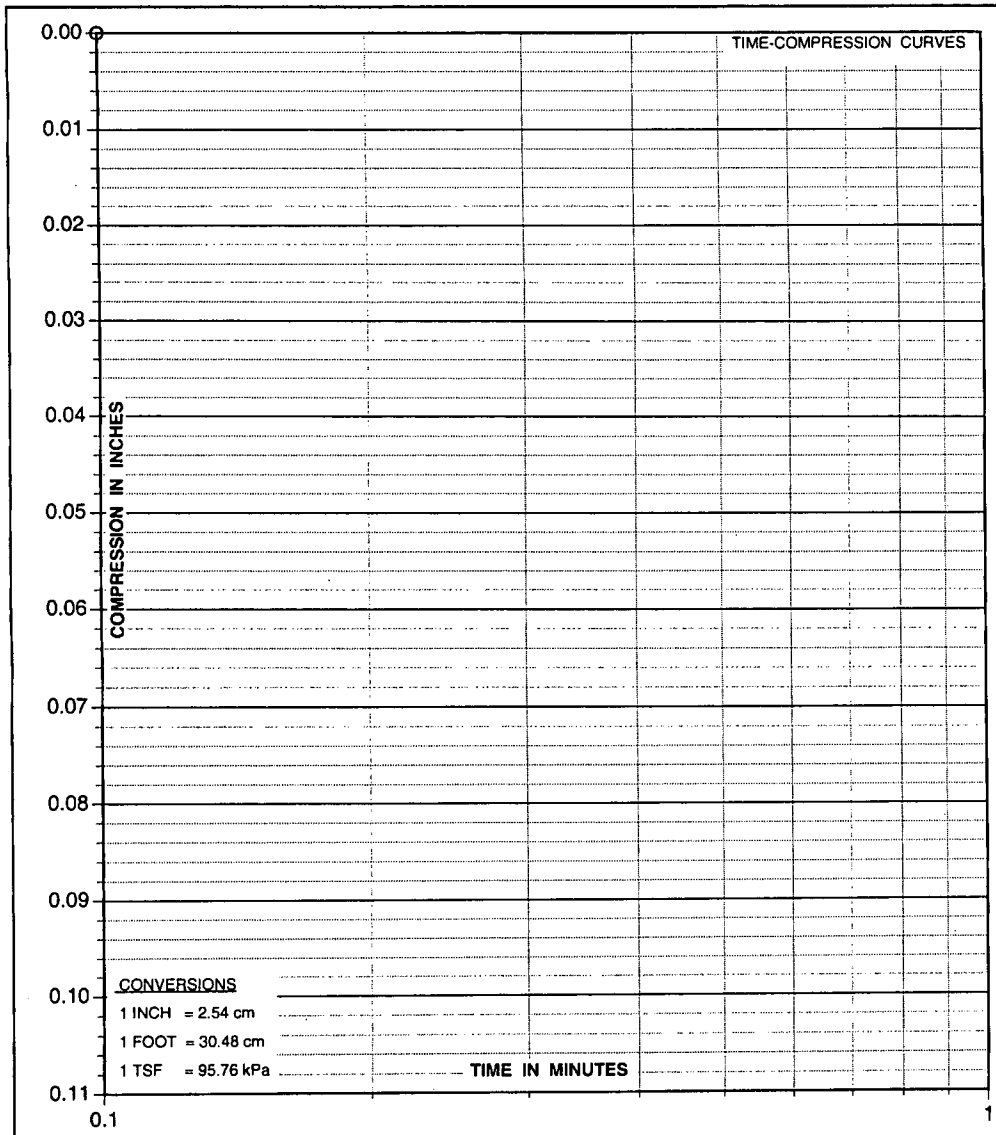
CONSOLIDATION TEST — PLATE NO. 19

BORING NO. B-26 SAMPLE NO. 14



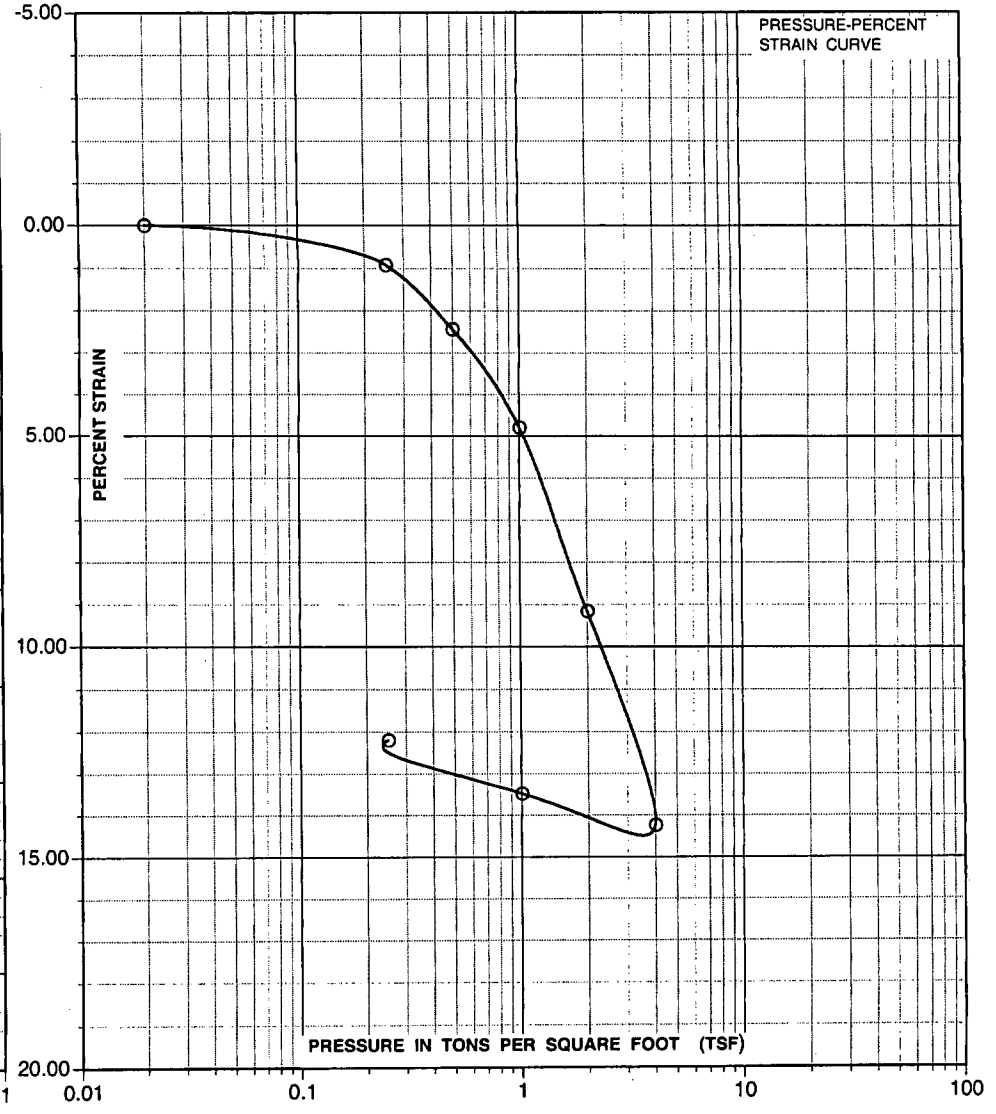


PLATE NO. 20

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION - CL
LIQUID LIMIT, w_L = 46
PLASTIC LIMIT, w_P = 27
PLASTICITY INDEX, I_P = 19
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 108

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 20
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 44
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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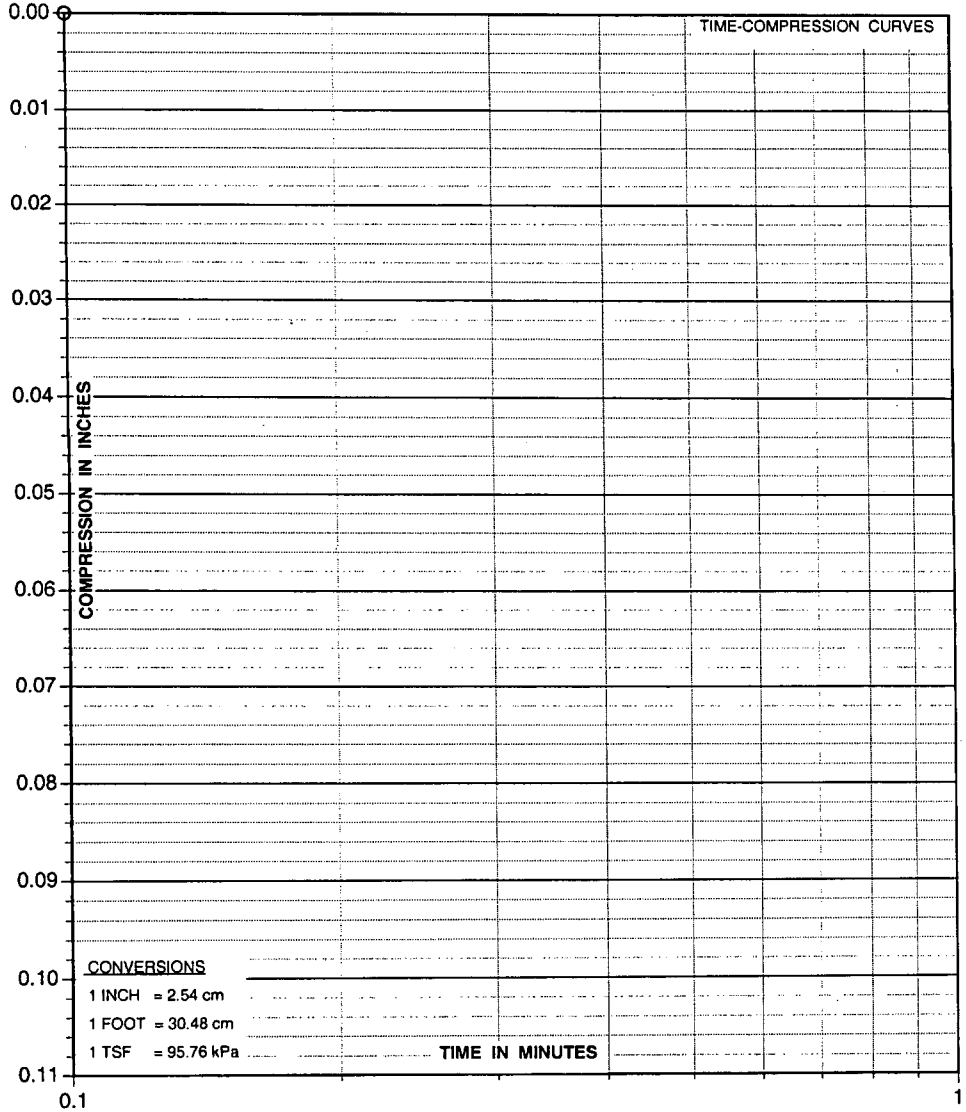
CONSOLIDATION TEST — PLATE NO. 20

BORING NO. B-27 SAMPLE NO. 7



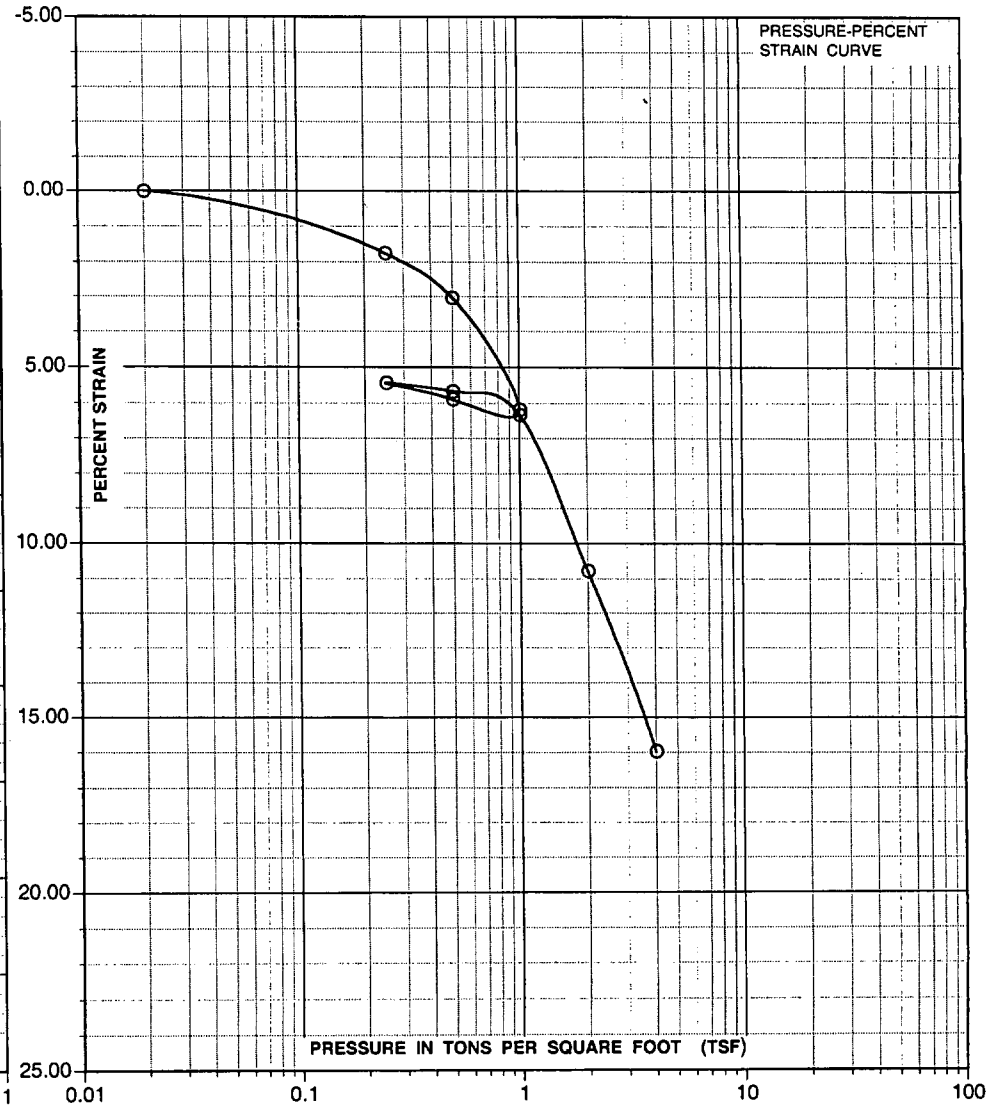


PLATE NO. 21

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

STRATUM

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 97

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 25
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 63
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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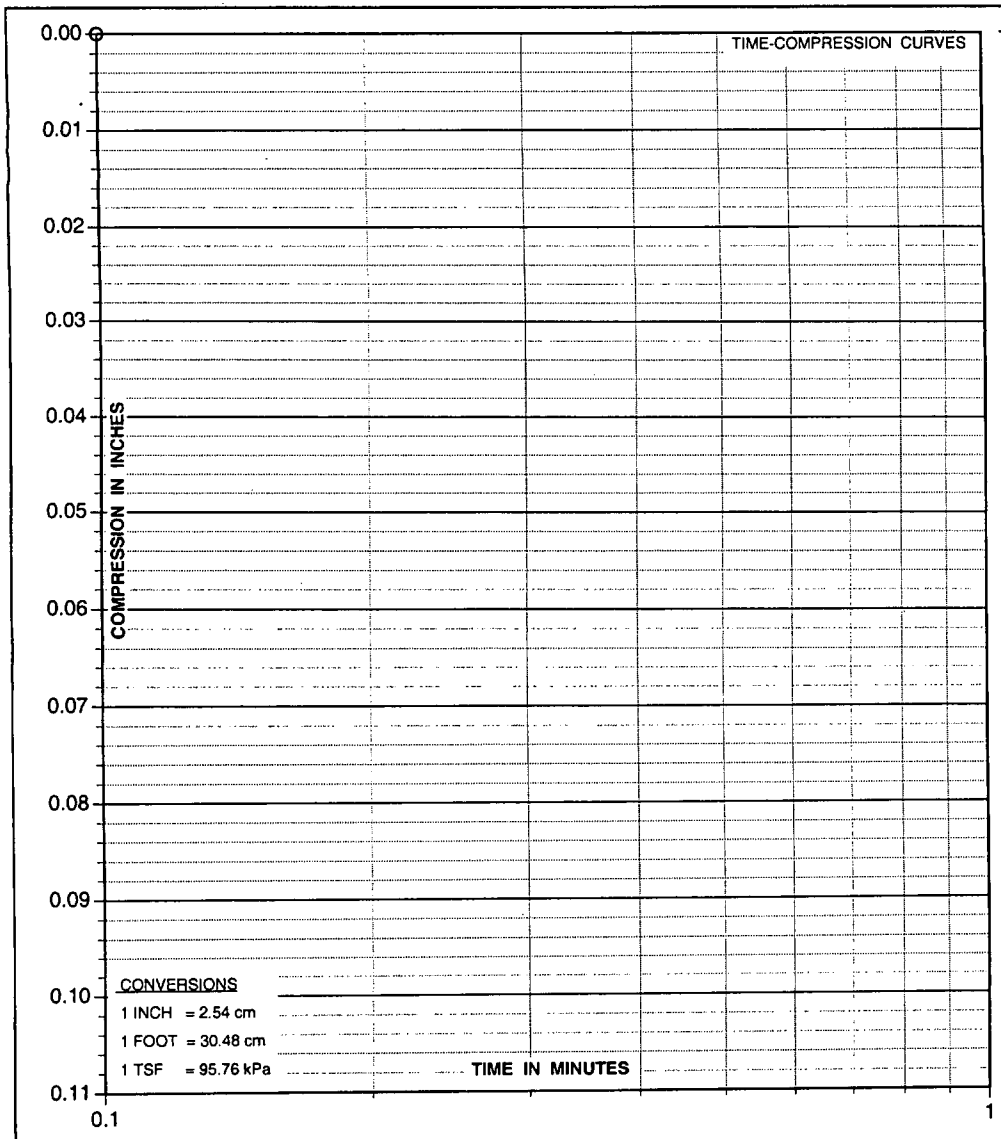
CONSOLIDATION TEST — PLATE NO. 21

BORING NO. B-27 SAMPLE NO. 8



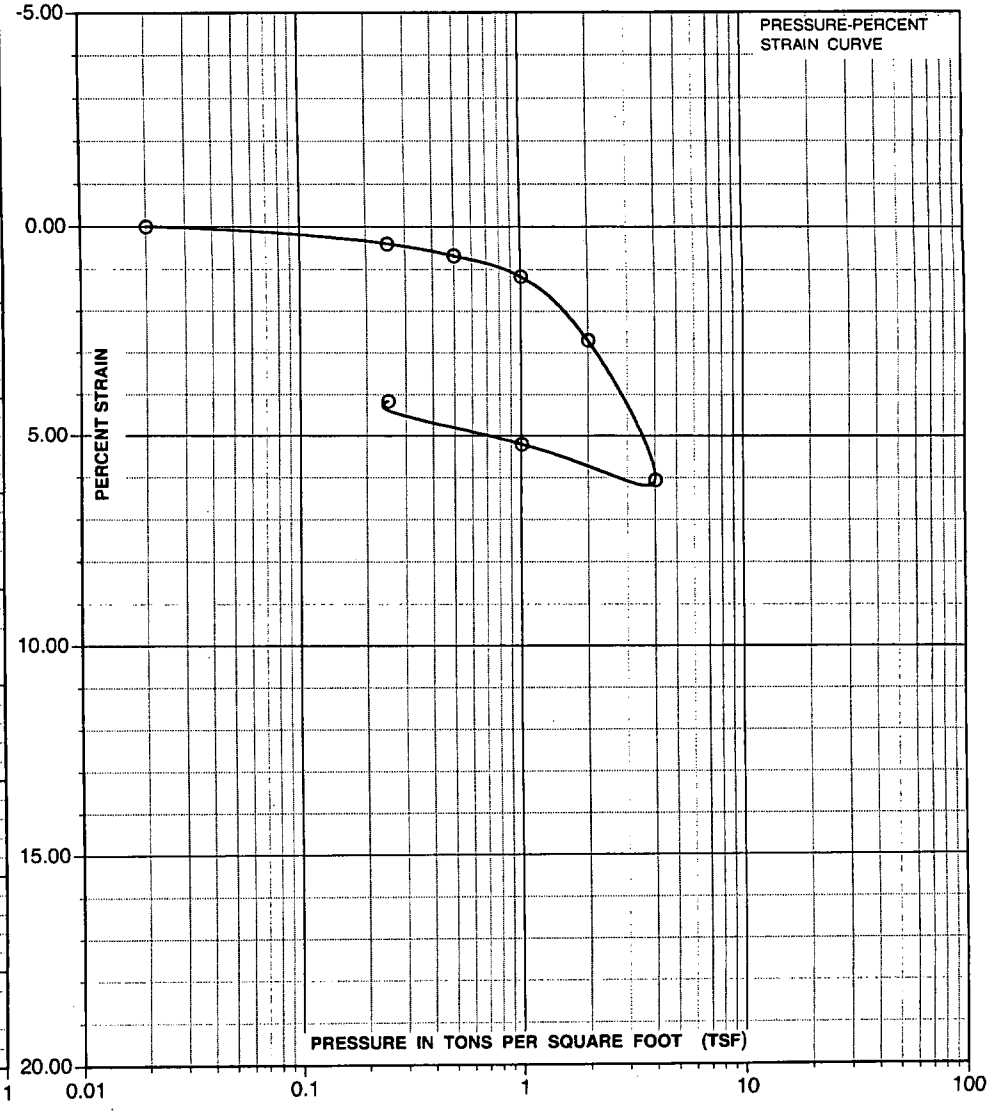


PLATE NO. 22

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 126

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 41
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 25
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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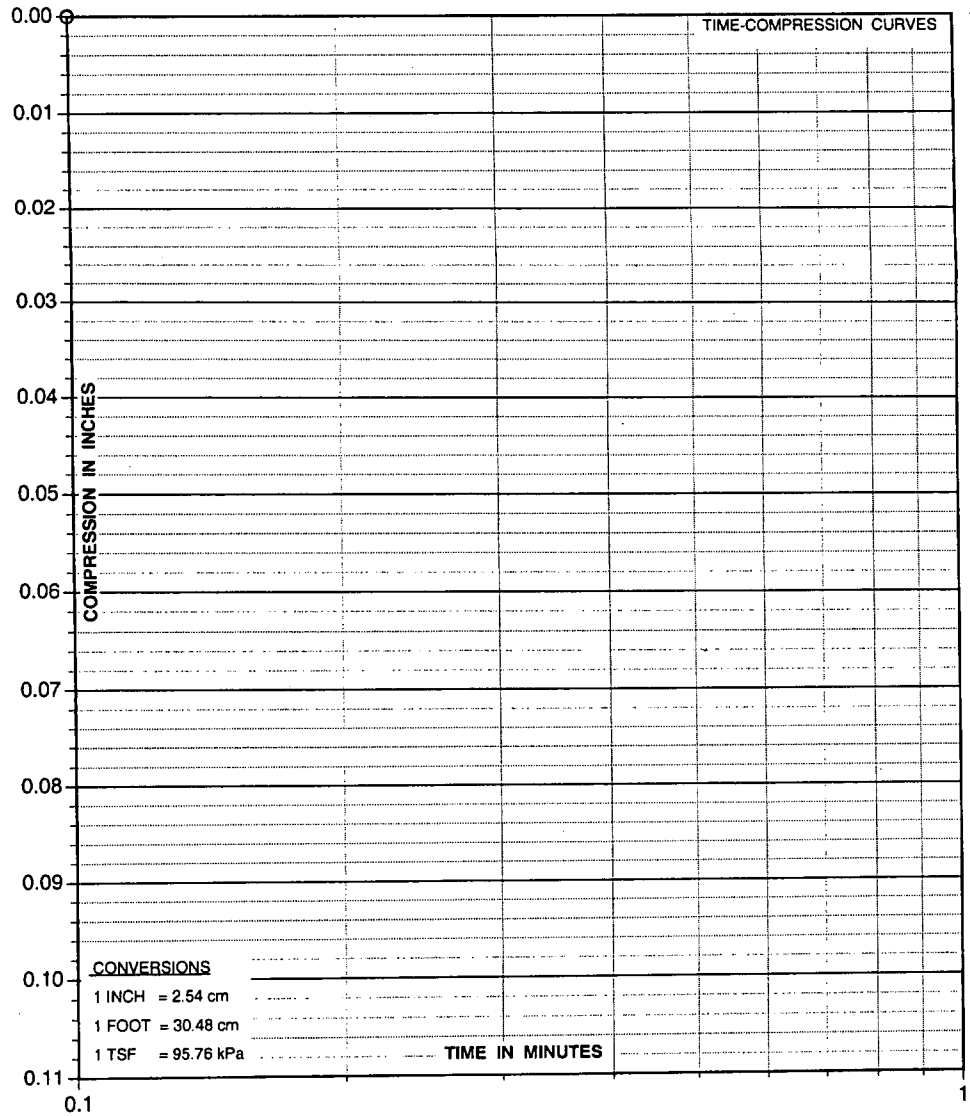
CONSOLIDATION TEST PLATE NO.
BORING NO. B-27 SAMPLE NO. 13 22



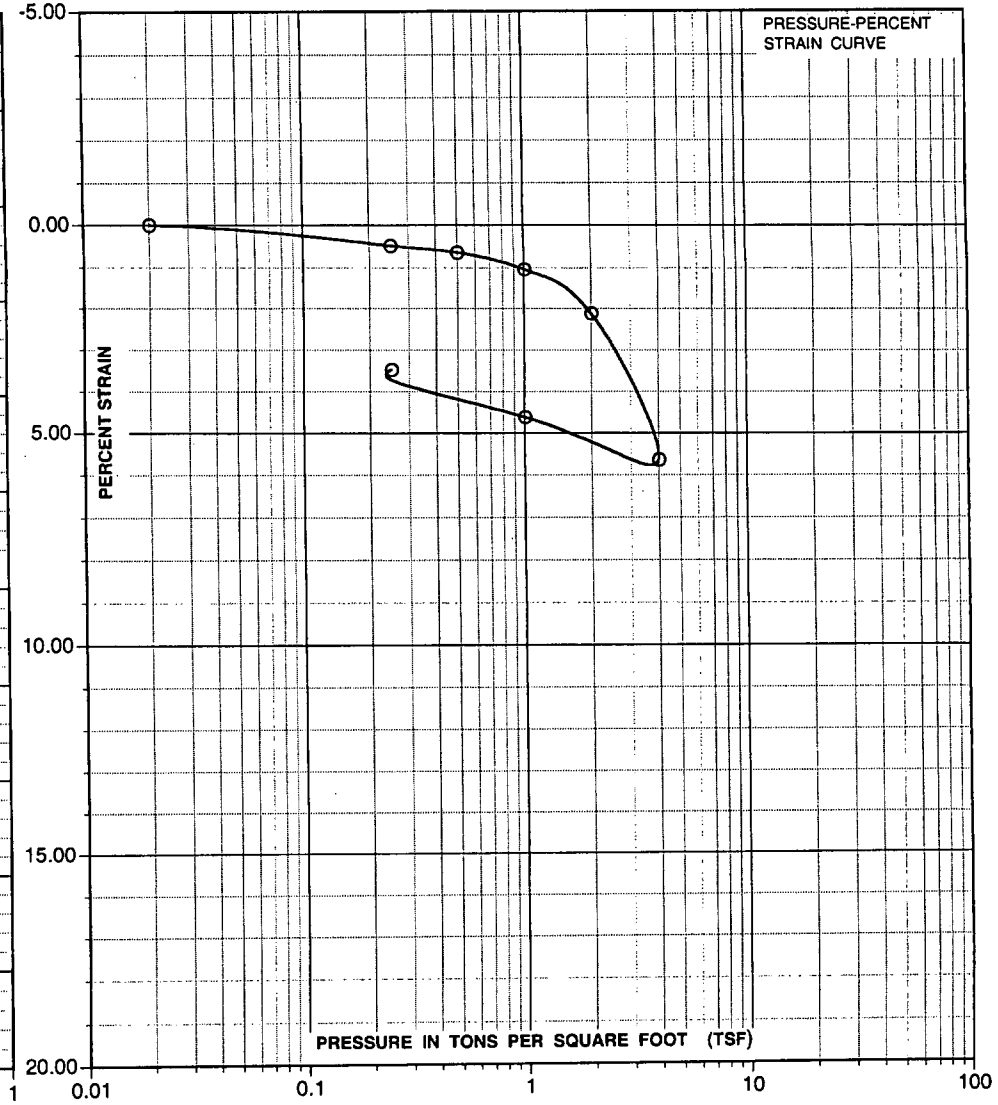


PLATE NO. 23

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION = CL
LIQUID LIMIT, w_L = 41
PLASTIC LIMIT, w_P = 21
PLASTICITY INDEX, I_P = 20
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 121

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 47
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 32
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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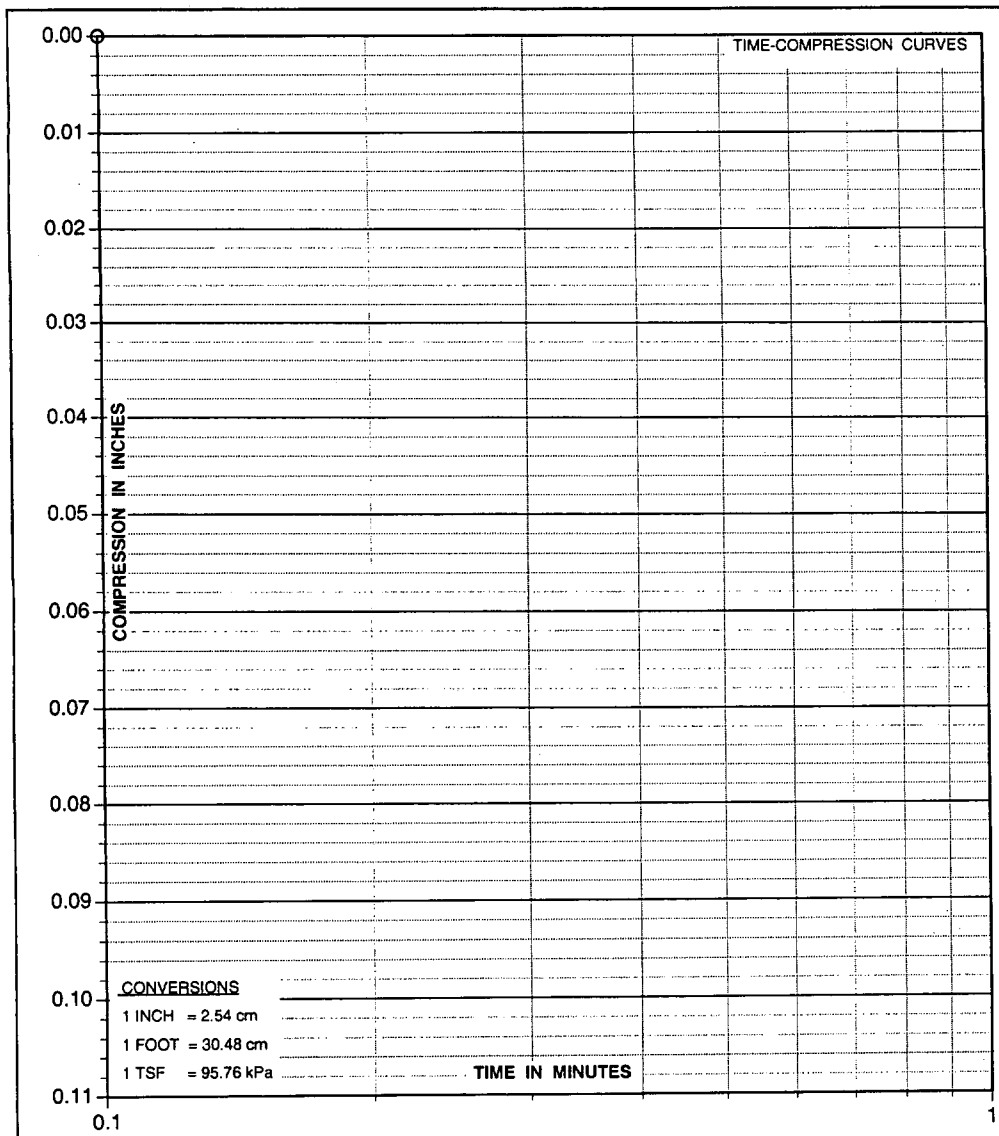
CONSOLIDATION TEST — PLATE NO. 23

BORING NO. B-27 SAMPLE NO. 15



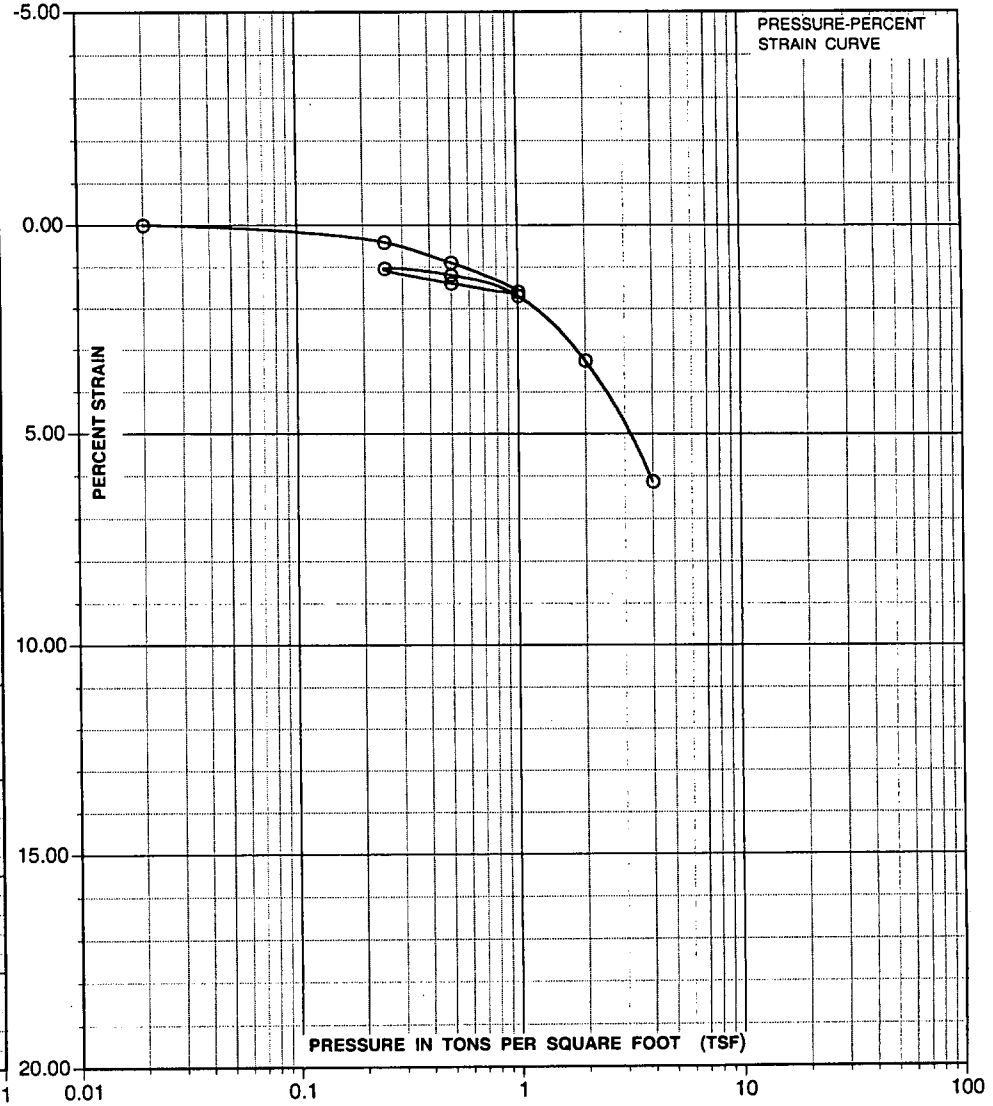


PLATE NO. 24

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 115

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 52
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 36
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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WASHINGTON MONUMENT

WASHINGTON D.C.

MUESER RUTLEDGE CONSULTING ENGINEERS

225 WEST 34TH STREET, NEW YORK, N.Y. 10122

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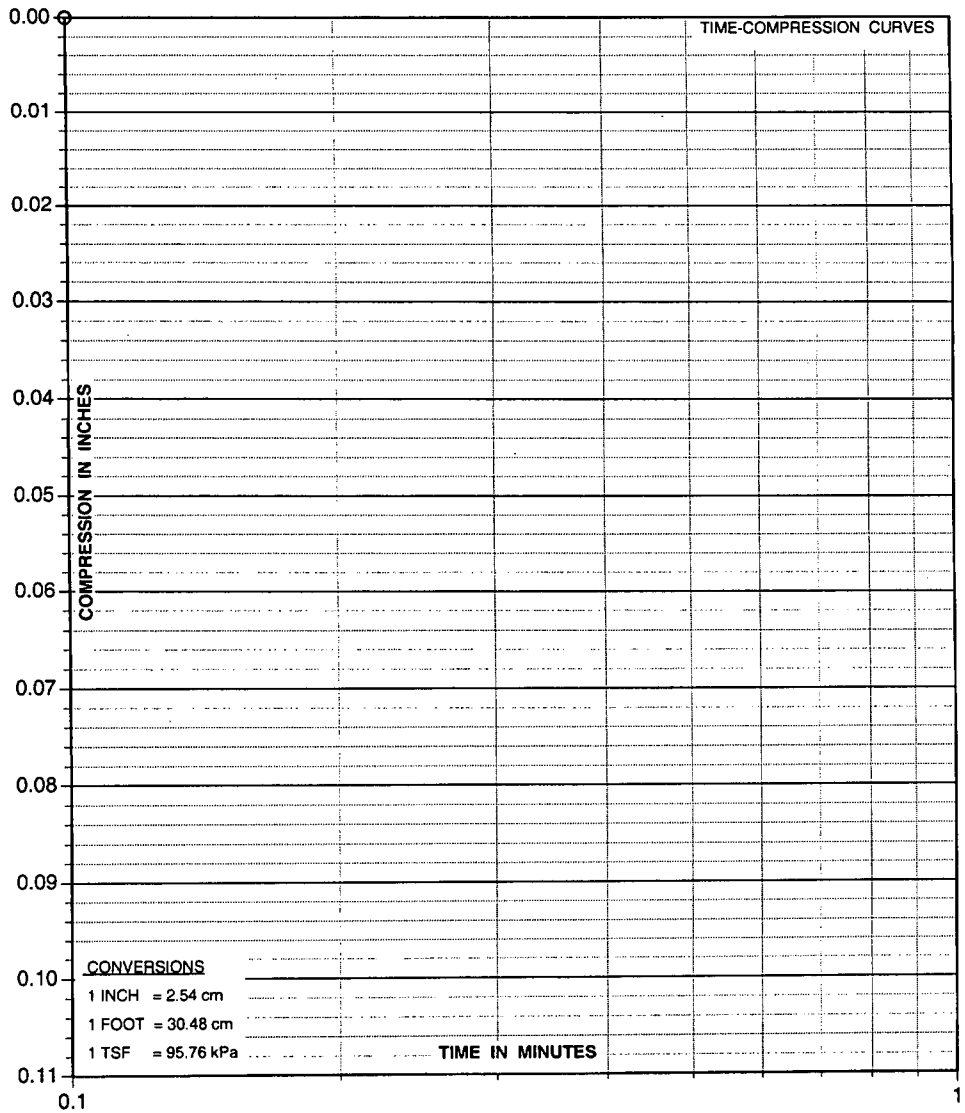
CONSOLIDATION TEST — PLATE NO. 24

BORING NO. B-27 SAMPLE NO. 17



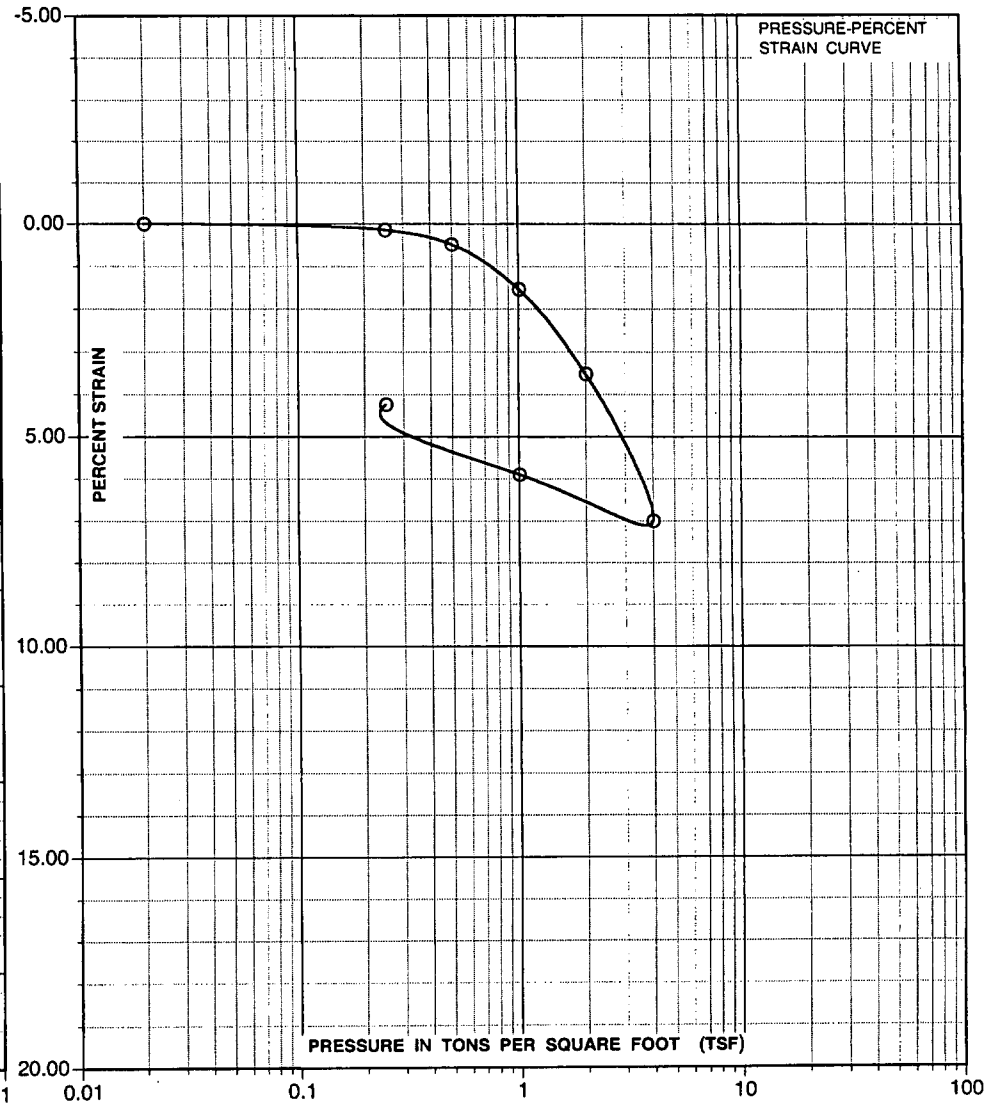


PLATE NO. 25

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 114

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 56
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 35
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_0 =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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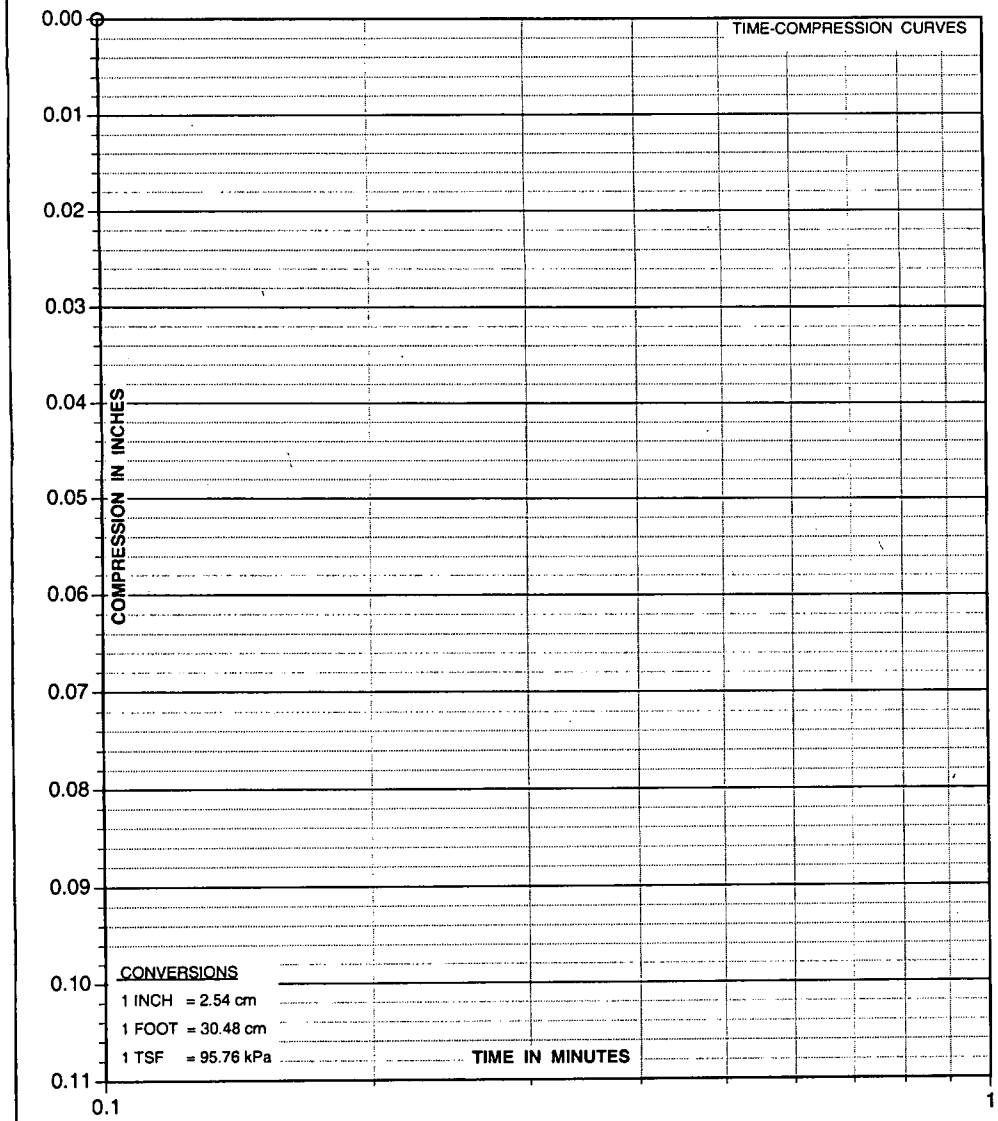
CONSOLIDATION TEST — PLATE NO. 25

BORING NO. B-27 SAMPLE NO. 18



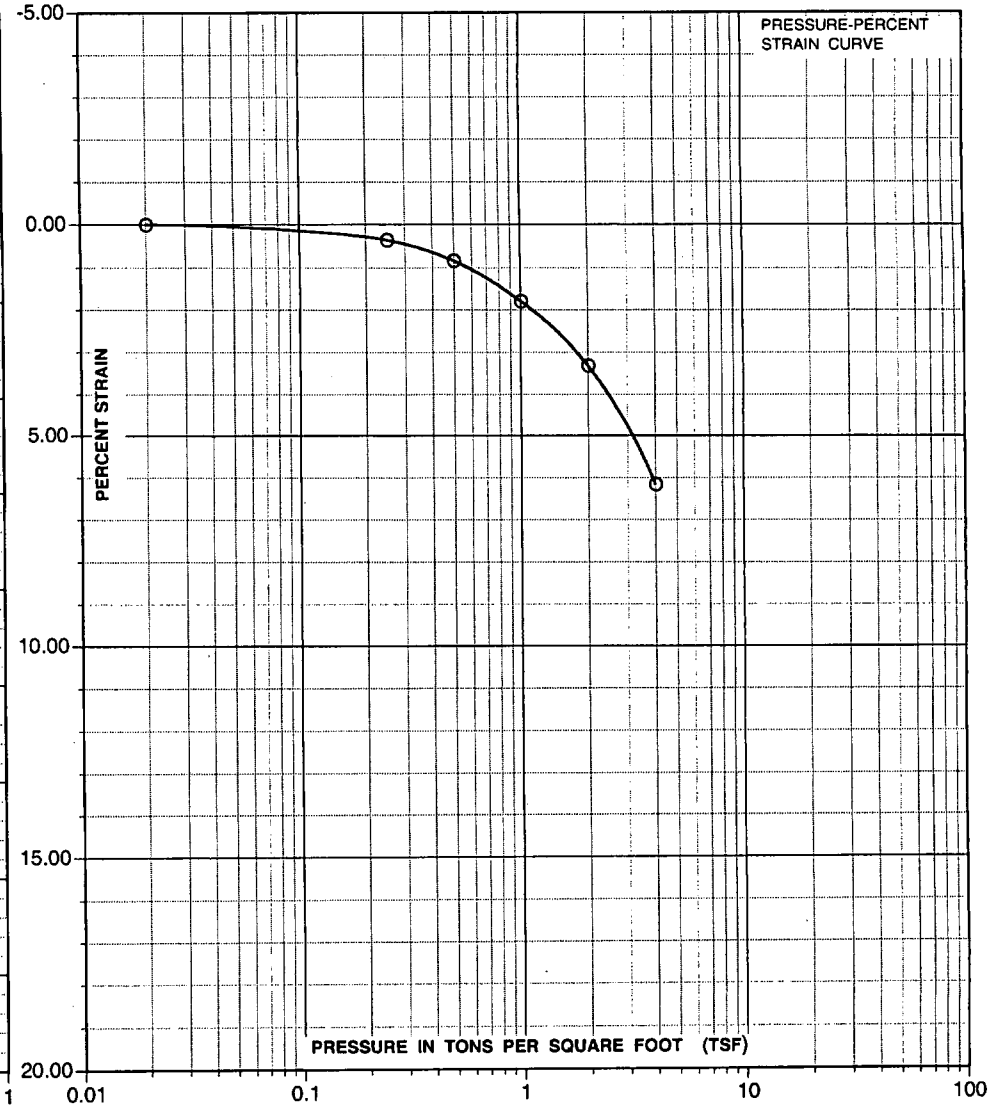


PLATE NO. 26

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
1		
2		
3		
4		
5		
6		
7		
8		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 106

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 62
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.5
INITIAL WATER CONTENT, % = 48
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_0 =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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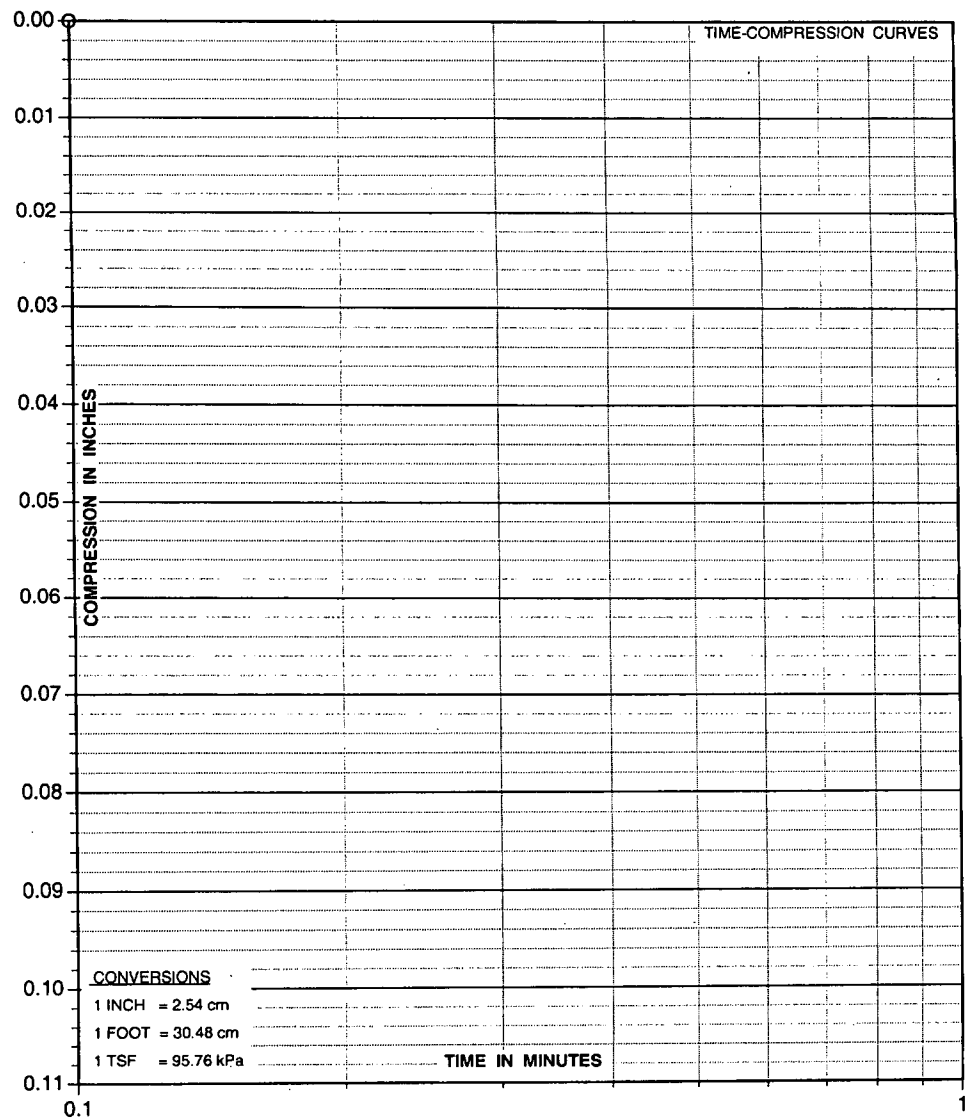
CONSOLIDATION TEST

BORING NO. B-27 SAMPLE NO. 21

PLATE NO. 26



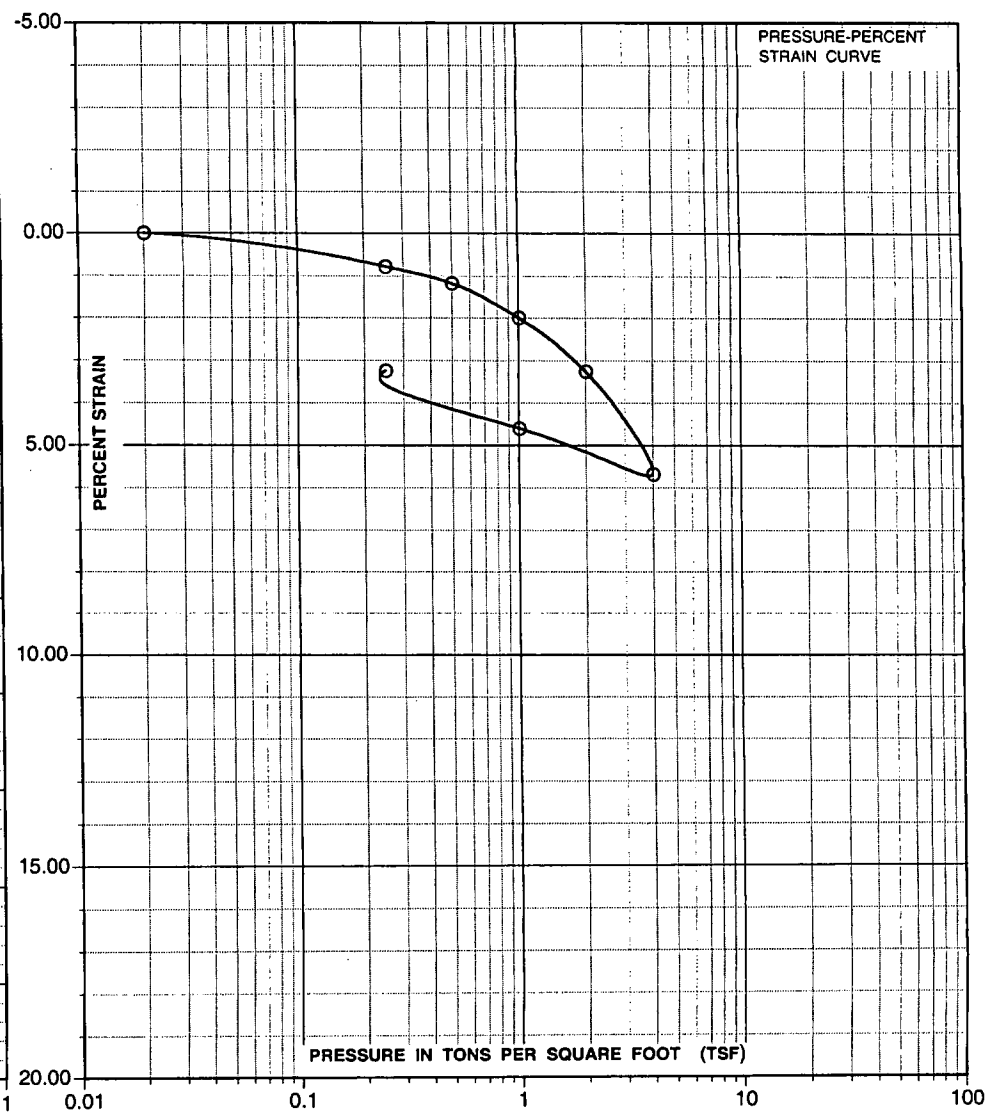


PLATE NO. 27

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION = OH
LIQUID LIMIT, w_L = 67
PLASTIC LIMIT, w_P = 33
PLASTICITY INDEX, I_P = 34
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 106

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 67
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 46
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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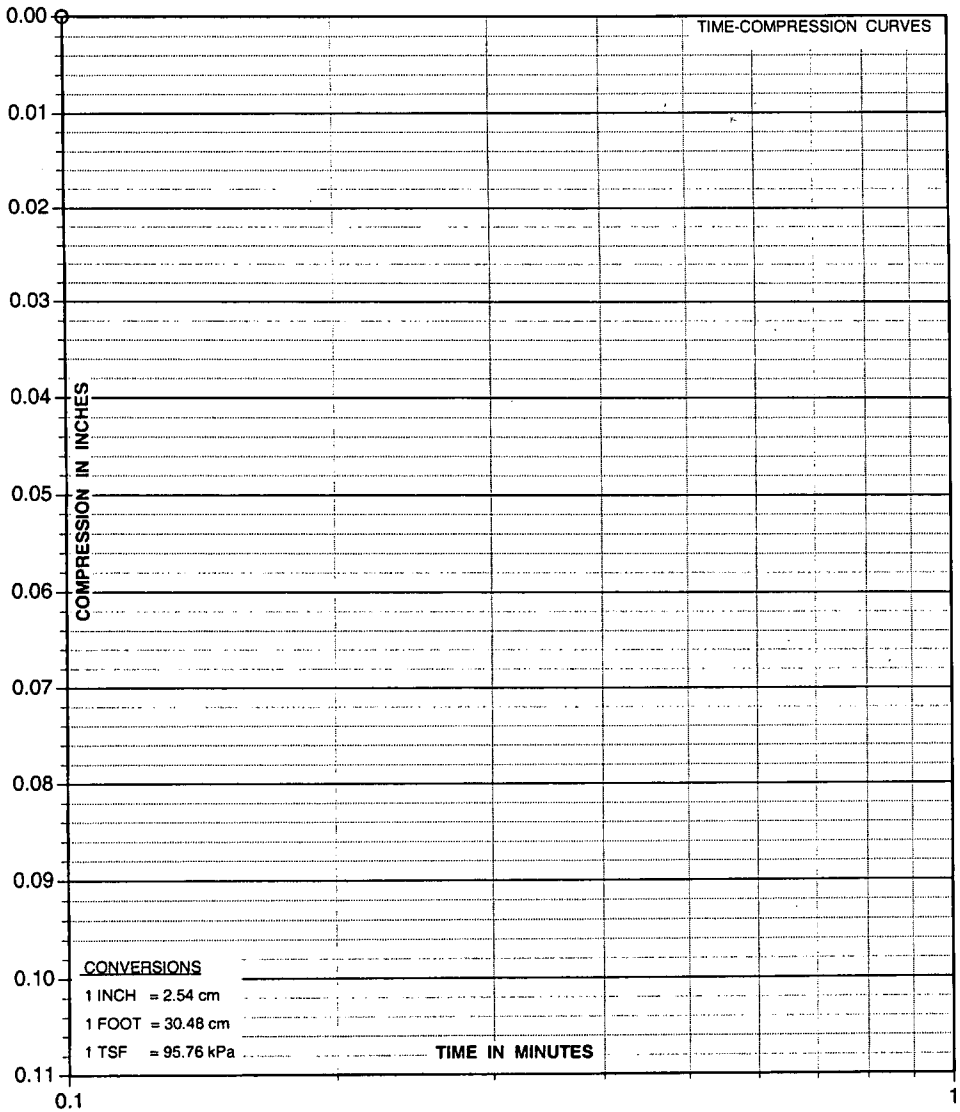
CONSOLIDATION TEST — PLATE NO.

BORING NO. B-27 SAMPLE NO. 23 — 27



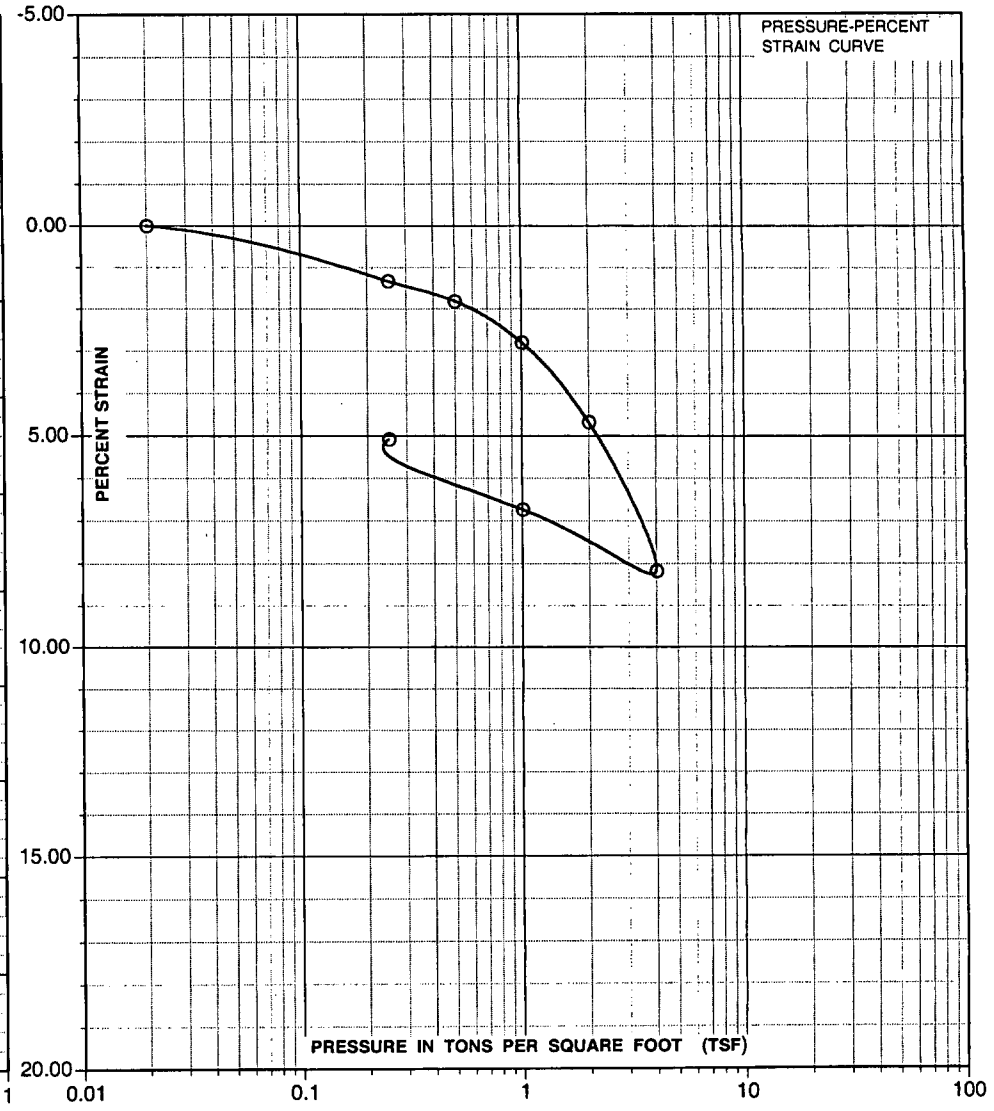


PLATE NO. 28

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 104

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 71
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 51
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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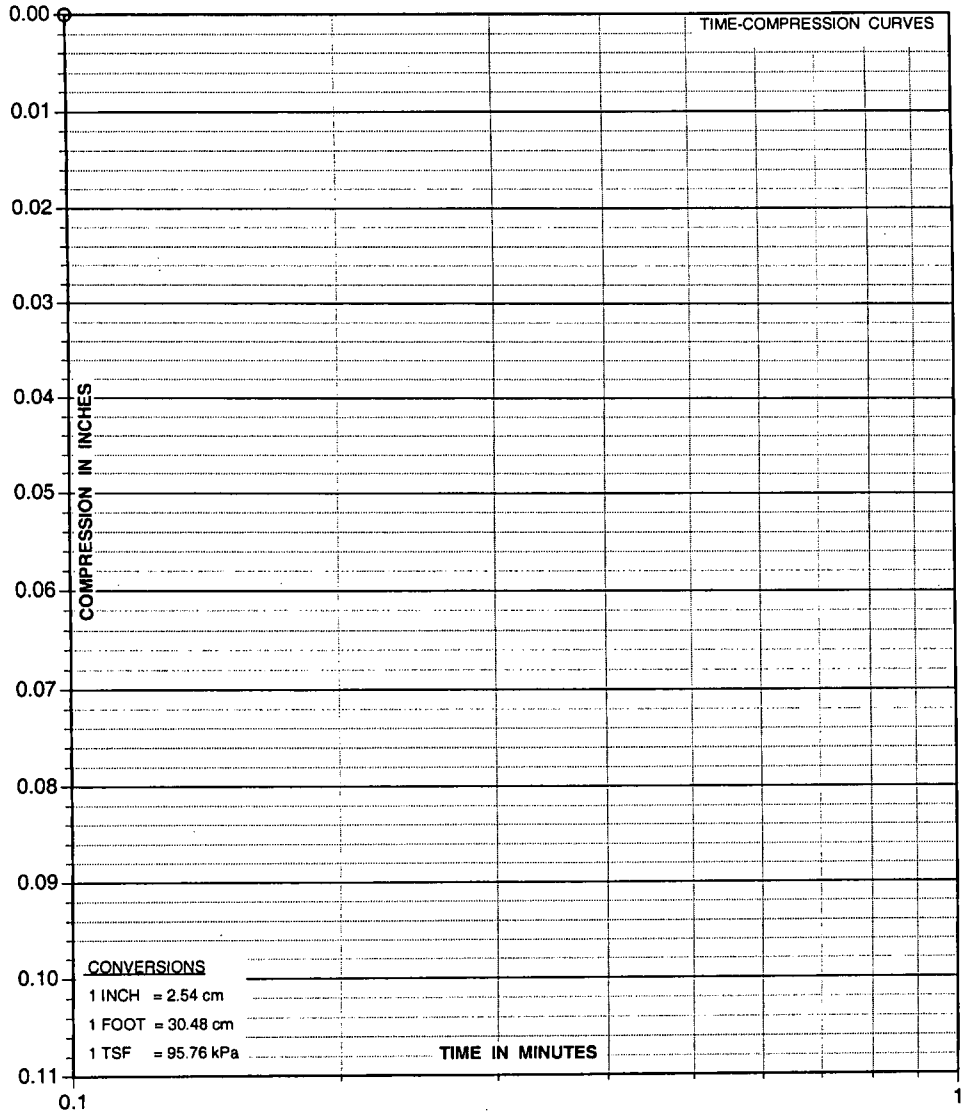
CONSOLIDATION TEST — PLATE NO.

BORING NO. B-27 SAMPLE NO. 25 — 28



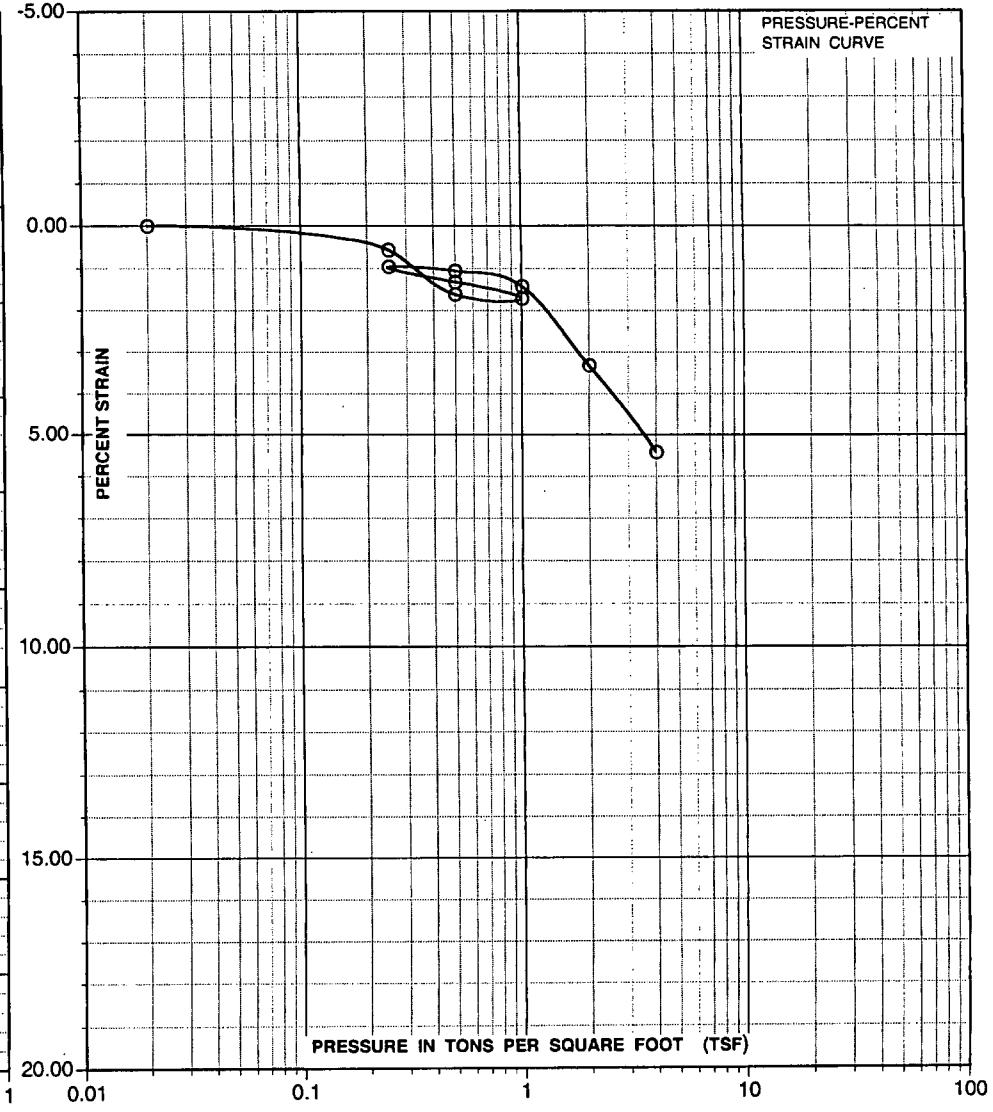


PLATE NO. 29

CURVE NO.	INCREMENT FROM (TSF)	INCREMENT TO (TSF)
1		
2		
3		
4		
5		
6		
7		
8		

SPECIMEN DESCRIPTION:

PROPERTIES OF PLASTICITY LIMIT SPECIMEN

UNIFIED SOILS CLASSIFICATION -
LIQUID LIMIT, w_L =
PLASTIC LIMIT, w_P =
PLASTICITY INDEX, I_P =
NATURAL WATER CONT. %, w =
LIQUIDITY INDEX, $(w-w_p)/I_p$ =
SPECIFIC GRAVITY, G_s =
INITIAL DENSITY, lb/ft^3 = 107

PROPERTIES OF CONSOLIDATION SPECIMEN

ELEVATION OF SPECIMEN =
DEPTH OF SPECIMEN (FT) = 76
DIAMETER OF SPECIMEN (IN) = 1.75
INITIAL THICKNESS OF SPECIMEN (IN) = 0.50
INITIAL WATER CONTENT, % = 47
FINAL WATER CONTENT, % =
INITIAL DEGREE SATURATION, % =
FINAL DEGREE SATURATION, % =

STRATUM

INITIAL VOID RATIO, e_o =
FINAL VOID RATIO, e_f =
ESTIMATED PRECONSOLIDATION STRESS (TSF), P_c =
EXISTING OVERBURDEN STRESS (TSF), P_o =
COMPRESSION INDEX, C_c =
SWELLING INDEX, C_s = , REBOUND FROM e =

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CONSOLIDATION TEST — PLATE NO. 29

BORING NO. B-27 SAMPLE NO. 27