BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
87-158	1J	.5-1	Fill: Very stiff red clay, with sand seams and roots	CH	16														
	2Q	3-4	Fill: Very stiff red and gray clay, with sand seams and partings	CH	20														
	3J	5.5-6	Stiff red clay, with sand seams and partings	CH	24														
	4Q	7-8	Stiff red clay, with sand partings & pockets, calcareous & ferrous nodules	CH	29	96													
	5Q	9-10	Firm gray and red clay, with sand seams and partings and ferrous nodules	CH	28														
	6Q	11-12	Soft olive gray clay, with sand and silt layers & petroleum odor	CH	34														
	7Q	12-13	Very soft olive gray clay, with sand layers, partings and pockets	CH	37														
	8J	13.5-14	Brown silty sand, with shell fragments	SM								24							
	9J	19.5-20	Soft dark gray clay	CH	53														
	10Q	21-22	Firm olive gray silty clay, with shell fragments	CL	30	95			32	17		66					0.62		
	11Q	23-24	Soft gray, red, and brown silty clay, with calcareous nodules	CL	27	103			26	16		60					0.47		
	12Q	25-26	Firm gray and red silty clay, with sand pockets & layer, clay partings, clayey silt layer	CL	26	98			31	18		93							
	13J	29-29.5	Very soft brown silty clay, with clay pockets	CL	28														
	14J	29.5-30	Brown sandy silt	ML								52							
	15J	34.5-35	Soft brown silty clay	CL	23														
	16Q	36-37	Soft red sandy clay, with sand and clay seams and calcareous nodules	CL	26														
	17Q	38-39	Stiff red clay, with silt pockets	CH	28				61	20		96					1.20	1.76	
	18Q	40-41	Stiff red clay, with silt seams, shell fragments, and calcareous nodules	CH	29														
	19Q	42-43	Firm red silty clay, with silt pockets, clay pockets and calcareous nodules	CL	21														
	20Q	44-45	Stiff red clay, with silt partings	CH	21														
	21Q	46-47	Very stiff red clay	CH	27	98			67	26		100					1.86	2.50	
	22Q	48-49	Stiff red and gray clay, with silty clay pockets and ferrous nodules	CH	22														
			CONTINUED																

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
DELIVERY ORDER NO. 0023
SNAKE ISLAND DISPOSAL AREA
TEXAS CITY, TEXAS

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
87-158	23Q	50-51	Stiff gray and red silty clay, with calcareous nodules	CL	24														
	24Q	52-53	Stiff brown silty clay, with ferrous nodules and calcareous nodules	CL	27	99			37	23		98					1.11		
	25Q	54-55	Firm red and tan silty clay, with clay seam & partings, calcareous and ferrous nodules	CL	29														
	26Q	56-57	Stiff red and tan silty clay, with clay seams and ferrous nodules	CL	30														
	27Q	59-60	Stiff red silty clay, with clay seams and partings	CL	29														
	28Q	60-61	Stiff olive gray and brown silty clay, with silt seams	CH	33	89			80	31		98					1.57		
	29Q	62-63	Stiff red clay, with silt partings and sand pockets	CH	35														
	30Q	64-65	Very stiff brown and gray clay, with silt seams and calcareous nodules	CH	38	83			83	28		99					2.16		
	31Q	66-67	Stiff red clay, with silt seams	CH	39														
	32Q	68-69	Stiff red clay	CH	45														
	33Q	70-71	Firm red clay, with ferrous nodules	CH	45														
	34Q	72-73	Very stiff brown and olive gray clay, with ferrous nodules	CH	53	70			86	27		96					2.20		
	35Q	74-75	Firm red clay	CH	56														
	36Q	76-77	Firm red clay, with ferrous nodules	CH	54														
	37Q	78-79	Stiff red and olive gray silty clay, with ferrous nodules, silt seams & partings	CL	31	95			39	16		91					1.62		
	38Q	80-81	Stiff red clay, with silt pockets and ferrous seam.	CH	37														
	39Q	86-87	Firm olive gray clay, with ferrous nodules and shell fragments	CH	52														
	40Q	88-89	Stiff olive gray and brown silty clay with ferrous nodules	CH	27	99			51	15		80					1.67		
	41Q	90-91	Stiff light gray clay	CH	26														
	42Q	92-93	Stiff gray clay, with ferrous nodules	CH	23														
	43Q	94-95	Stiff gray clay, with calcareous and ferrous nodules and sand pockets	CH	22														
	44Q	96-97	Stiff gray and red silty clay, with ferrous and calcareous nodules	CH	24	104			53	15		87					1.49	2.0	
			CONTINUED																

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
DELIVERY ORDER NO. 0023
SNAKE ISLAND DISPOSAL AREA
TEXAS CITY, TEXAS

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
87-158	45Q	98-99	Stiff gray and tan clay, with silty clay seam, calcareous & ferrous nodules	CH	26														
	46Q	100-101	Very stiff gray and red sandy clay, with ferrous pockets & ferrous & calcareous nodules	CL	20														
	47Q	102-103	Very stiff gray clay, with sand pockets	CH	26														
	48Q	104-105	Very stiff gray clay, with sand pockets and ferrous nodules	CH	30														
	49Q	108-109	Stiff olive gray clay, with ferrous nodules to 108.5'; dark gray clay, with organic material + shells to 109'	CH	78	56			126	37		76					1.43		

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
DELIVERY ORDER No. 0023
SNAKE ISLAND DISPOSAL AREA
TEXAS CITY, TEXAS

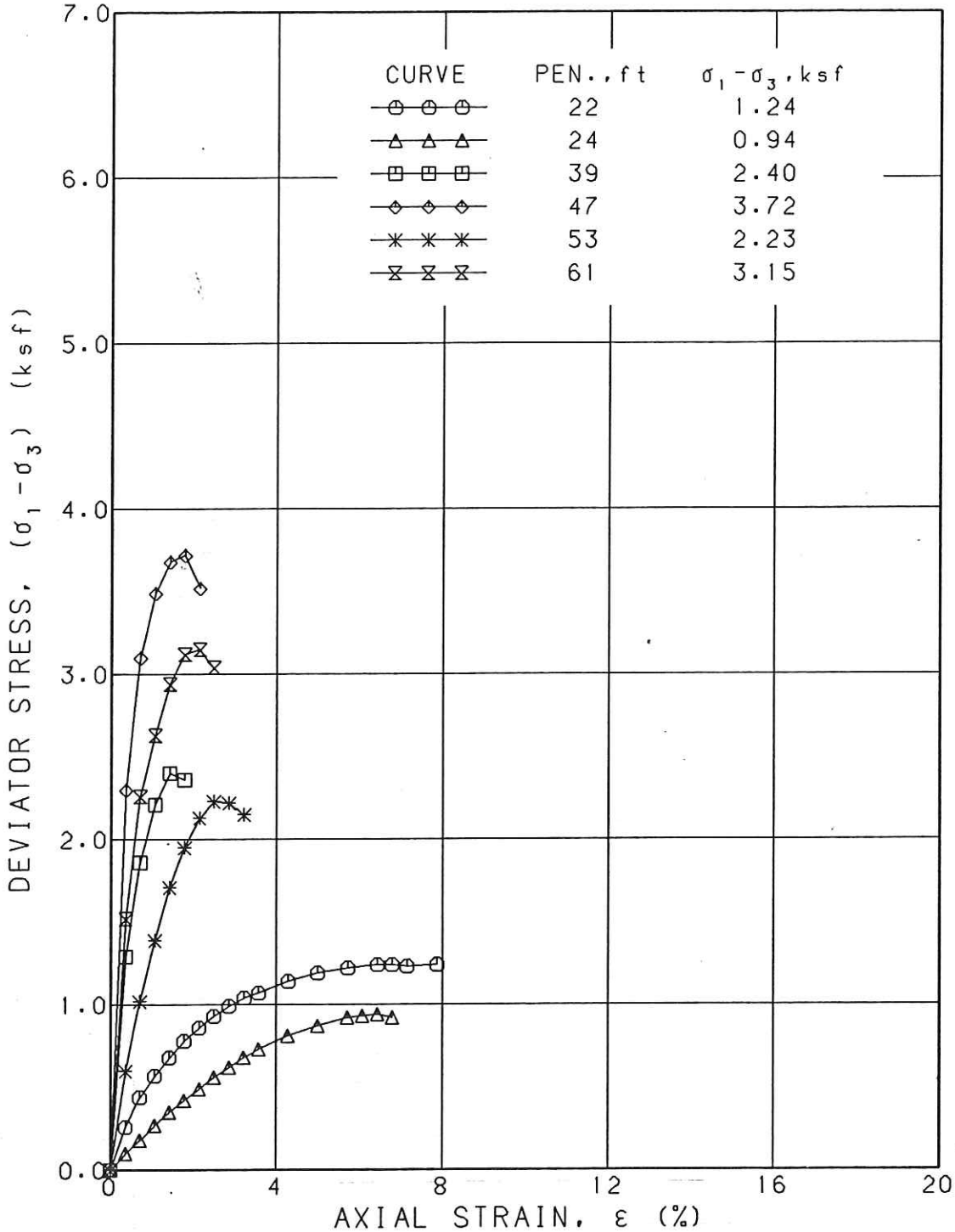
McCLELLAND ENGINEERS

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil gms (Total Sample)	Percent Finer 0.375	#4	#10	#40	#200
87-156	21	48	79.63				100	99
87-156	24	60	56.35				100	99
87-156	26	70	48.92				100	97
87-157	3	7	74.83			100	99	79
87-157	6	15	94.11				100	57
87-157	8	22	77.61				100	10
87-157	11	35	95.42		100	99	99	97
87-157	12	40	95.43			100	99	93
87-157	13	45	81.08			100	99	98
87-157	15	55	54.69				100	99
87-157	18	70	57.08			100	98	96
87-158	8	14	99.85				100	24
87-158	10	22	88.45				100	66
87-158	11	24	92.21			100	99	60
87-158	12	26	131.88	100	99	99	99	93
87-158	14	30	57.58				100	52
87-158	17	39	70.15		100	99	98	96
87-158	21	47	60.22					100
87-158	24	53	75.13			100	99	98
87-158	28	61	57.71			100	99	98
87-158	30	65	42.76				100	99
87-158	34	73	44.81			100	99	96
87-158	37	79	61.34			100	98	91
87-158	40	89	75.38			100	99	80

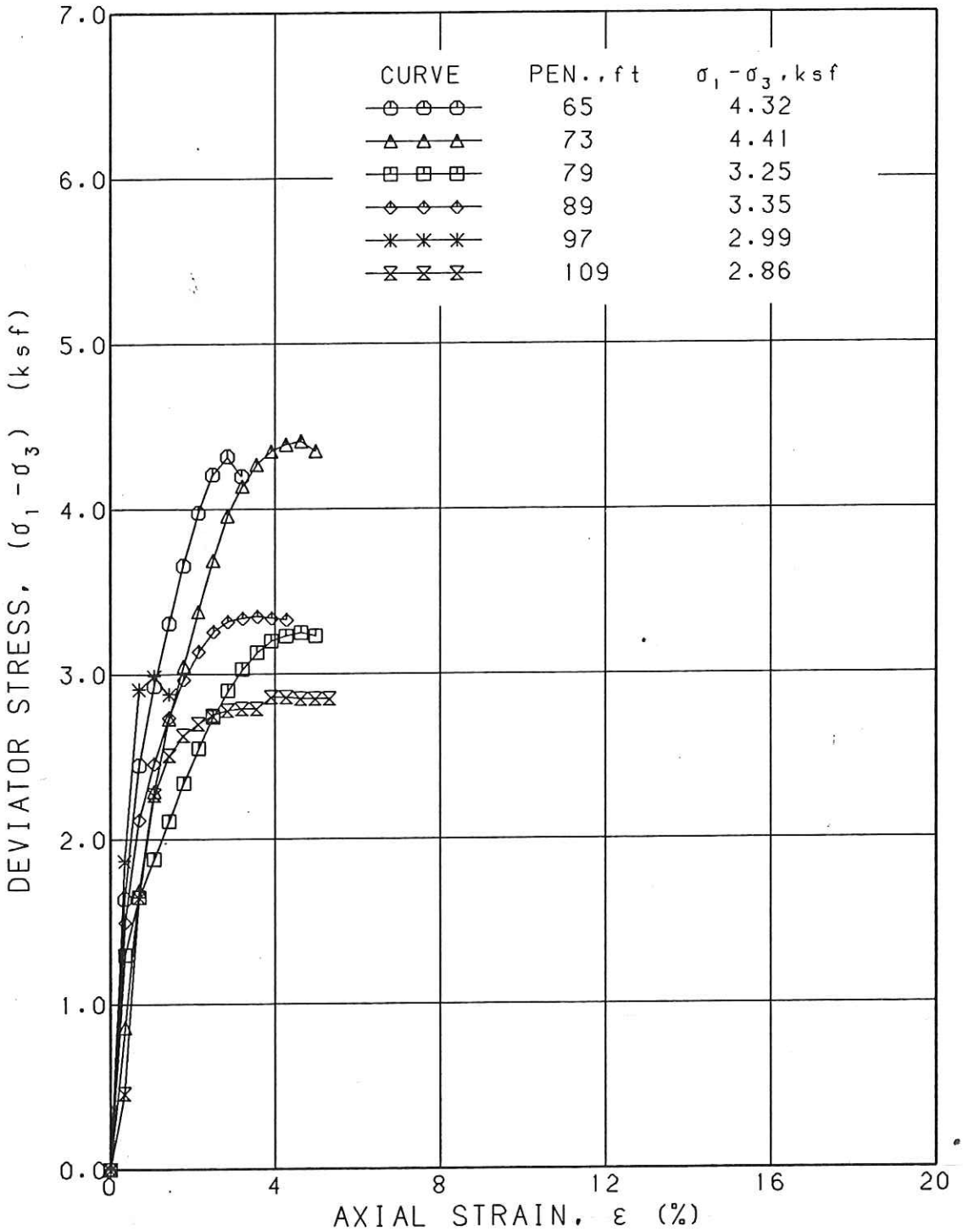
RESULTS OF ABBREVIATED SIEVE ANALYSES

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil gms (Total Sample)	Percent Finer 0.375	#4	#10	#40	#200
87-158	44	97	79.07				100	87
87-158	49	109	64.28	100	99	98	92	76
87-159	4	15	106.51				100	89
87-159	6	25	82.64				100	98
87-159	8	35	67.48				100	98
87-159	10	45	88.02				100	99
87-159	14	65	52.55			100	99	98
87-160	3	6	83.80			100	99	95
87-160	7	14	82.87				100	96
87-160	9	18	86.58				100	98
87-160	10	20	98.70				100	61
87-160	11	22	62.98				100	73
87-160	12	26	98.14				100	18
87-160	13	30	81.72				100	15
87-160	15	37	58.74				100	94
87-160	19	45	51.78					100
87-160	23	53	64.46				100	99
87-160	25	57	68.34				100	99
87-160	27	61	49.11				100	99
87-160	30	67	33.37				100	96
87-160	34	75	39.82			100	99	98
87-160	38	83	40.21			100	96	94
87-160	44	98	43.03				100	93
87-160	47	106	35.57			100	99	96

RESULTS OF ABBREVIATED SIEVE ANALYSES



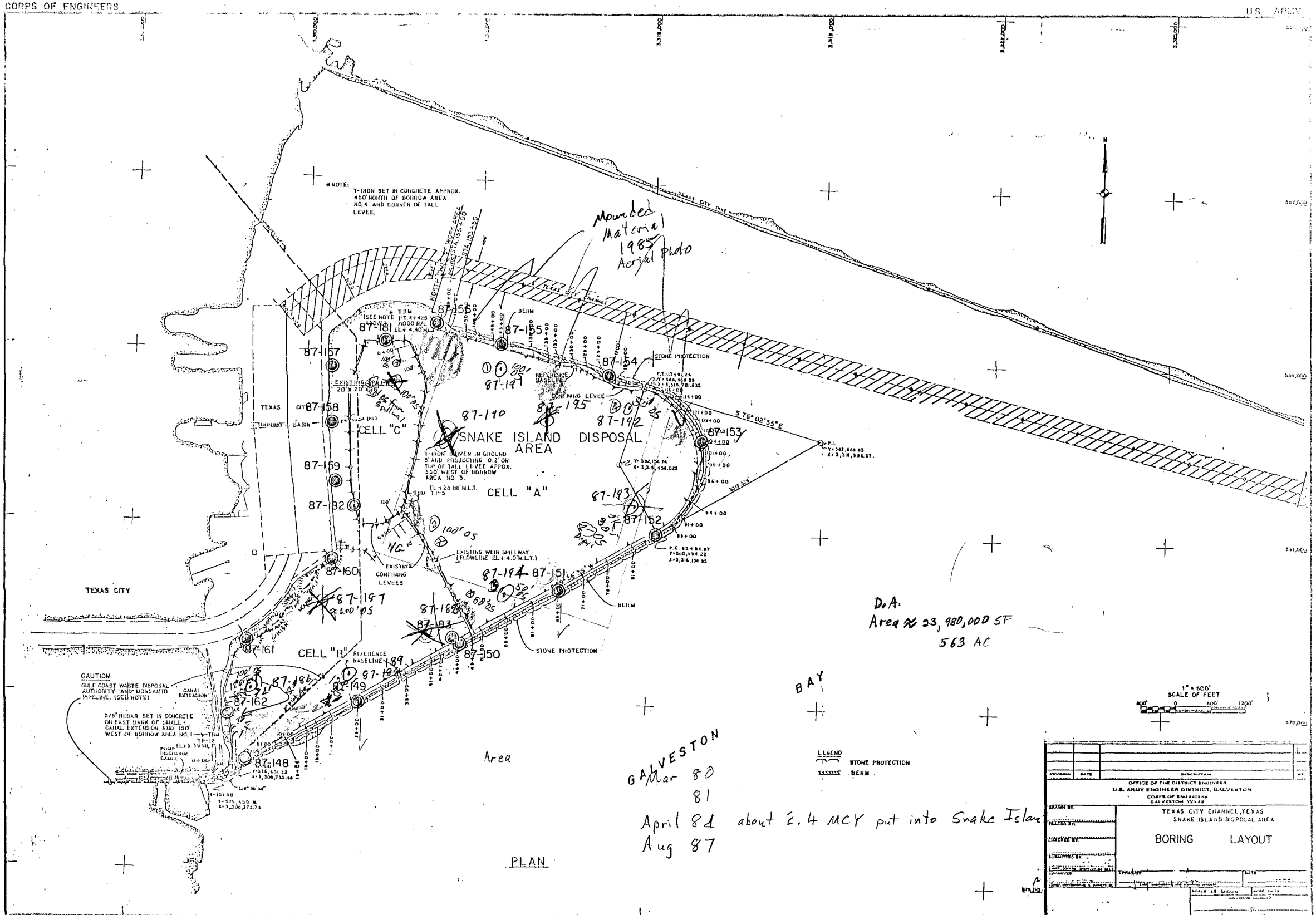
STRESS-STRAIN CURVES
UNCOFINED COMPRESSION TEST
BORING 87-158



STRESS-STRAIN CURVES
UNCOFINED COMPRESSION TEST
BORING 87-158

McCLELLAND ENGINEERS

PLATE 51

CORPS OF ENGINEERS

U.S. ARMY