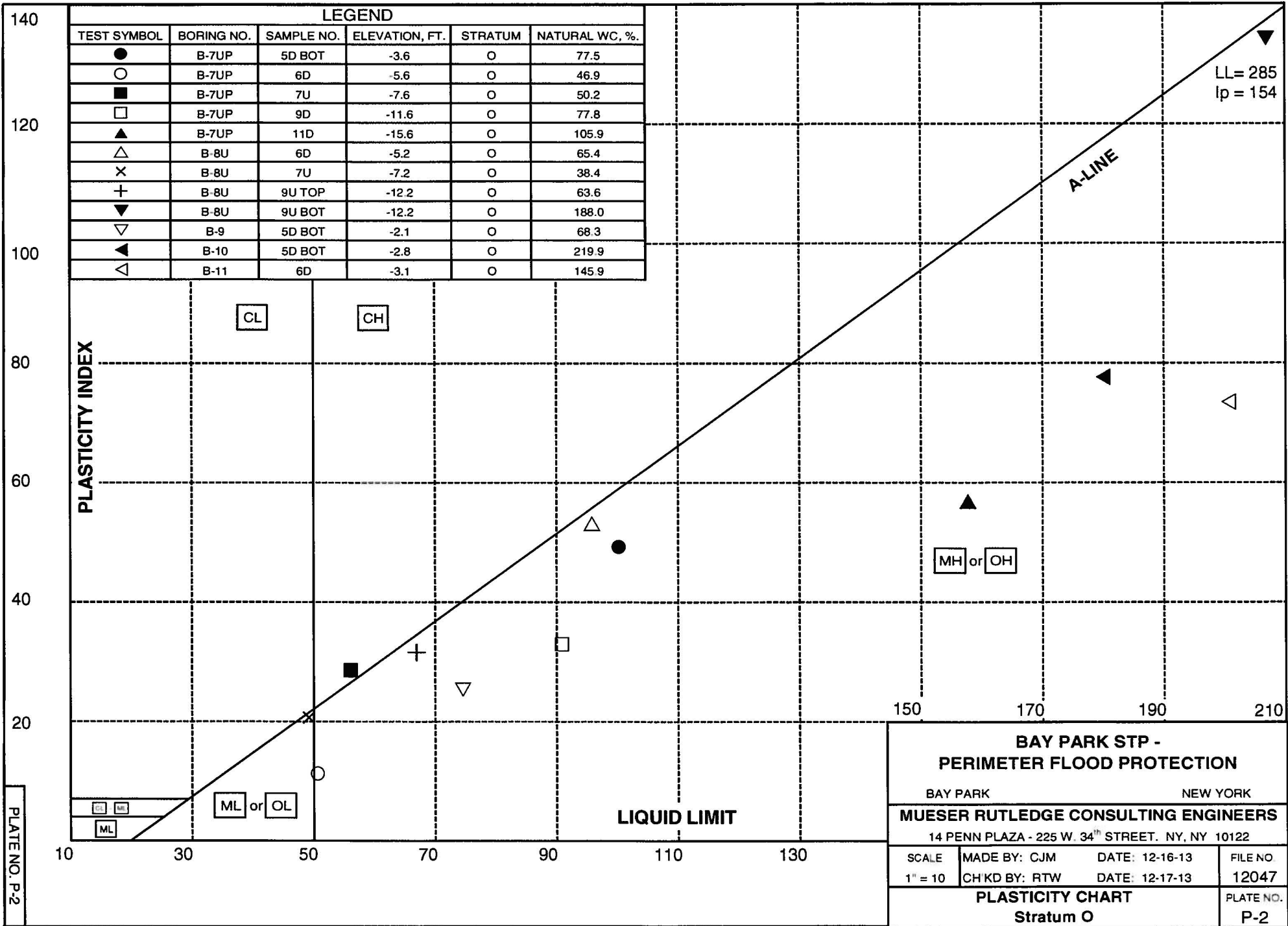
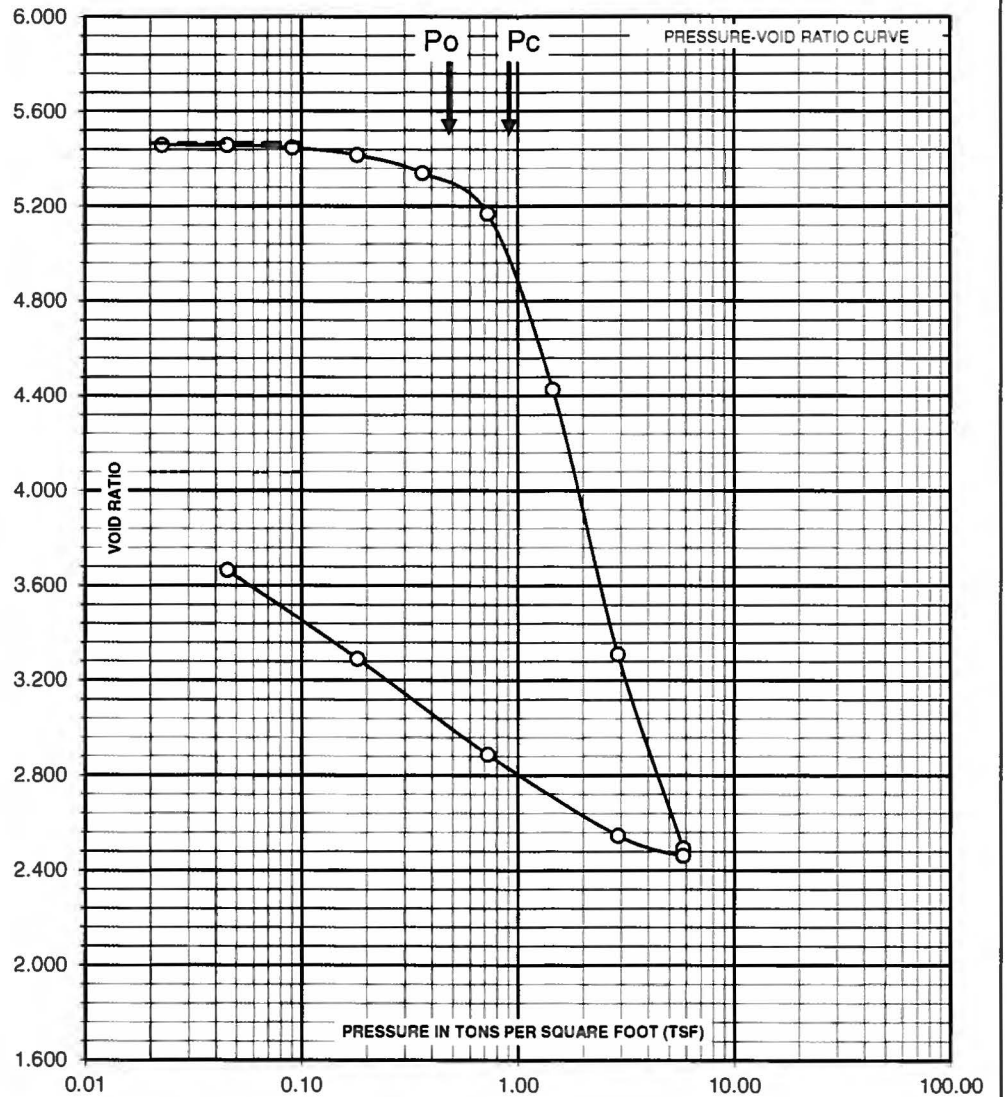
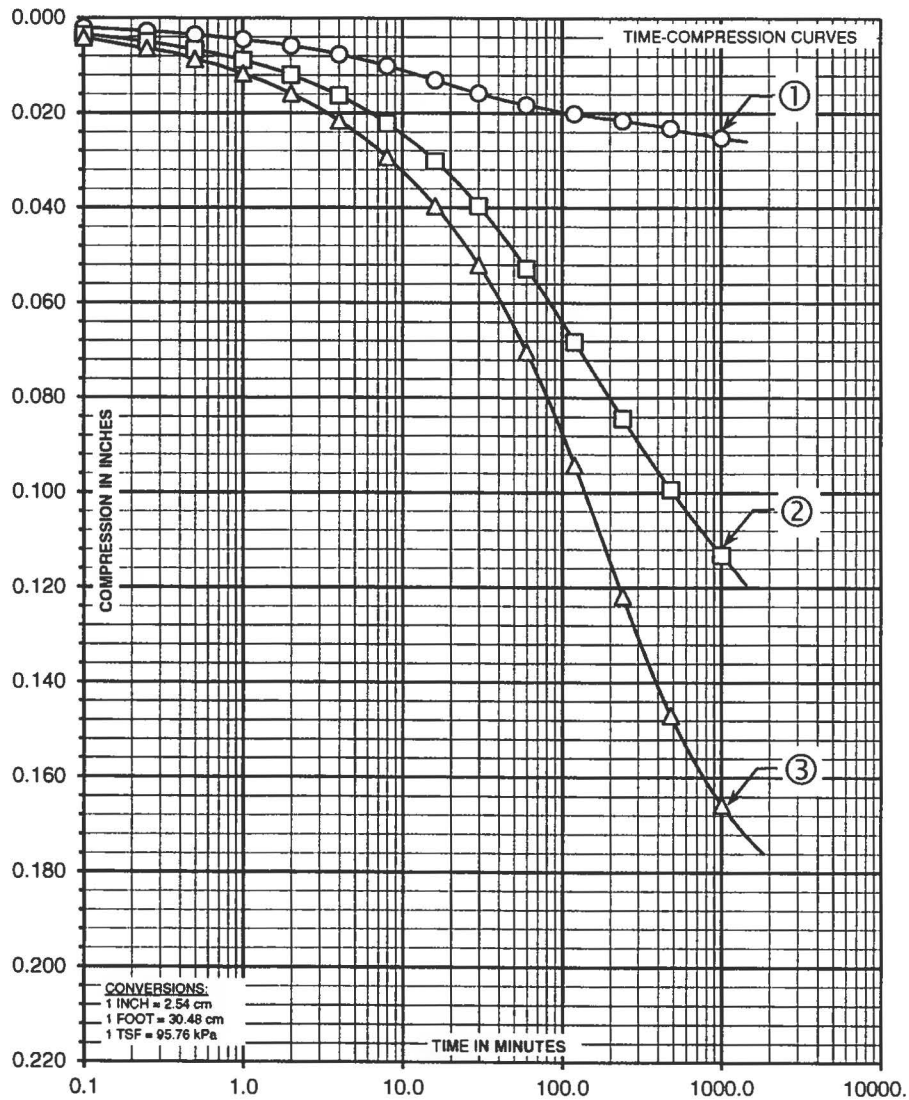
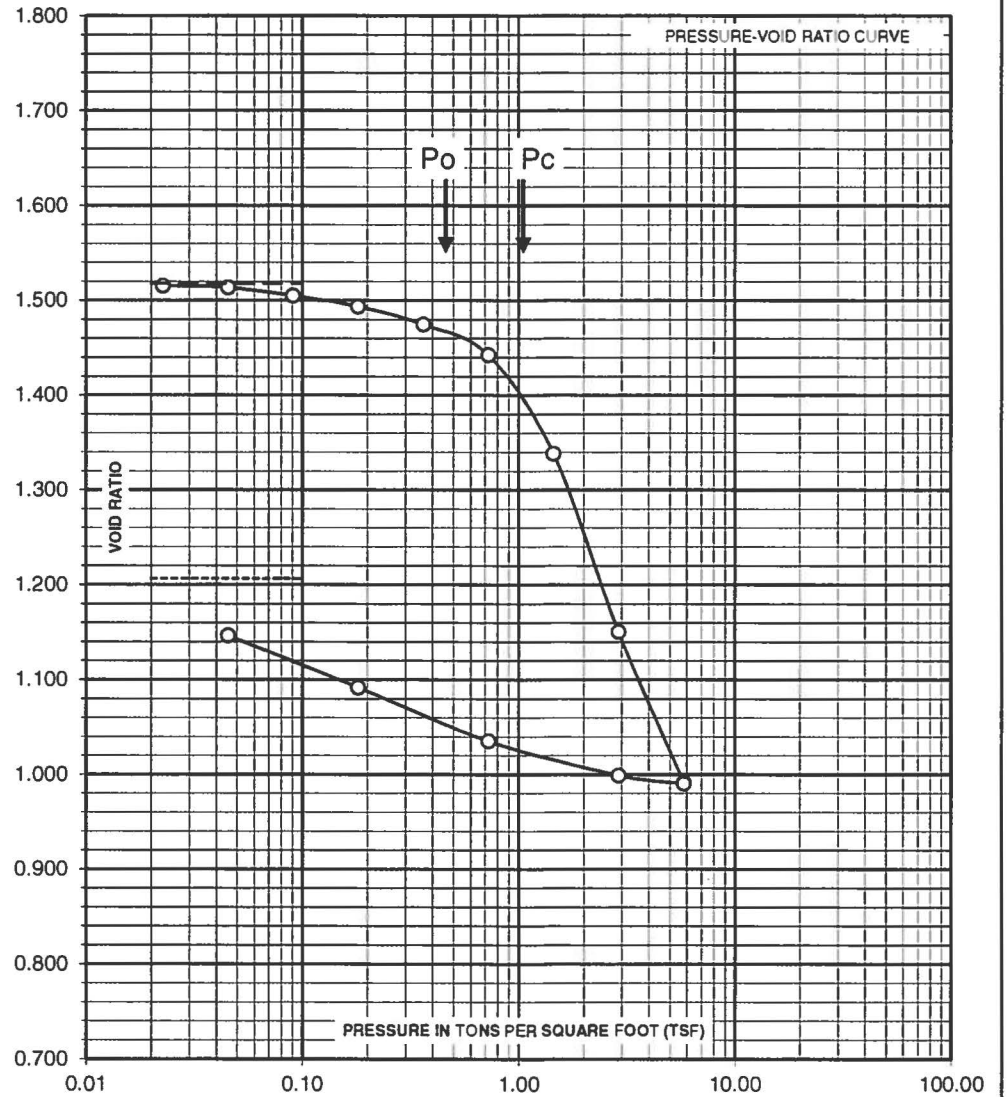
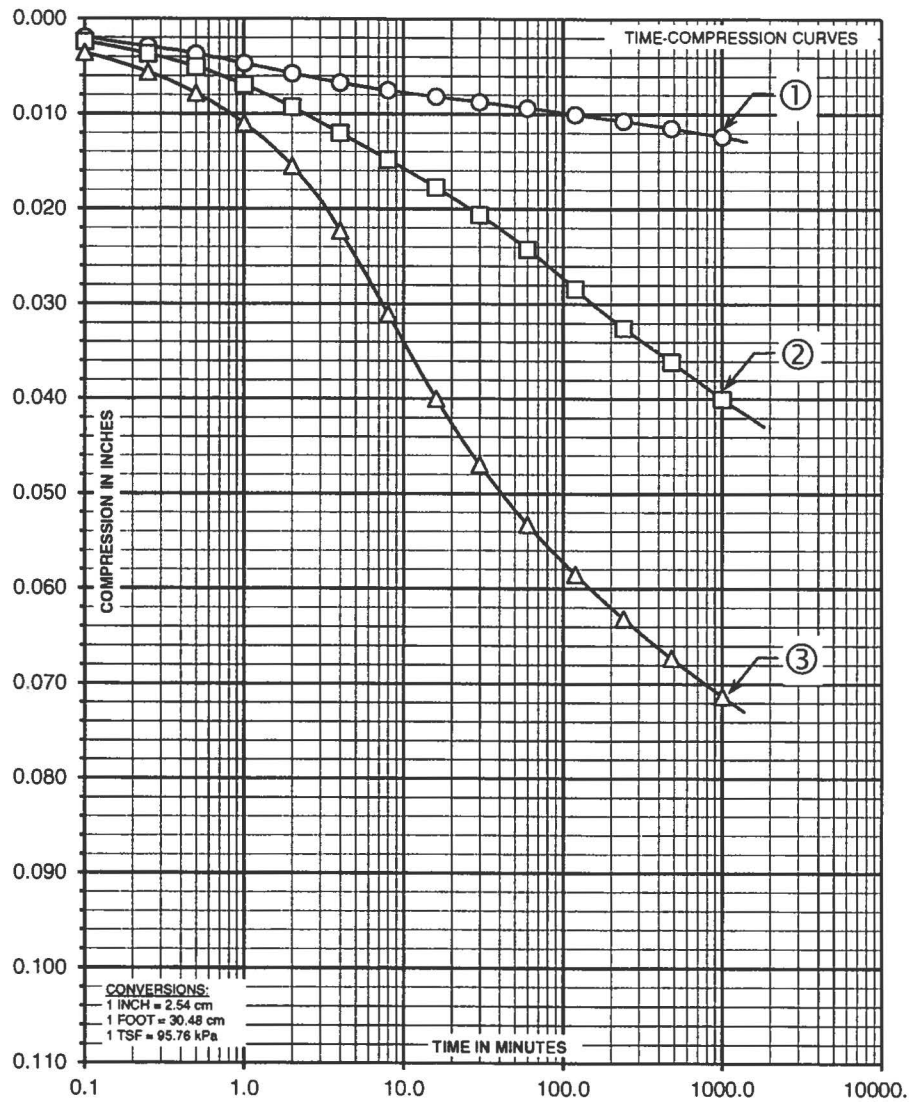


PLATE NO. P-1

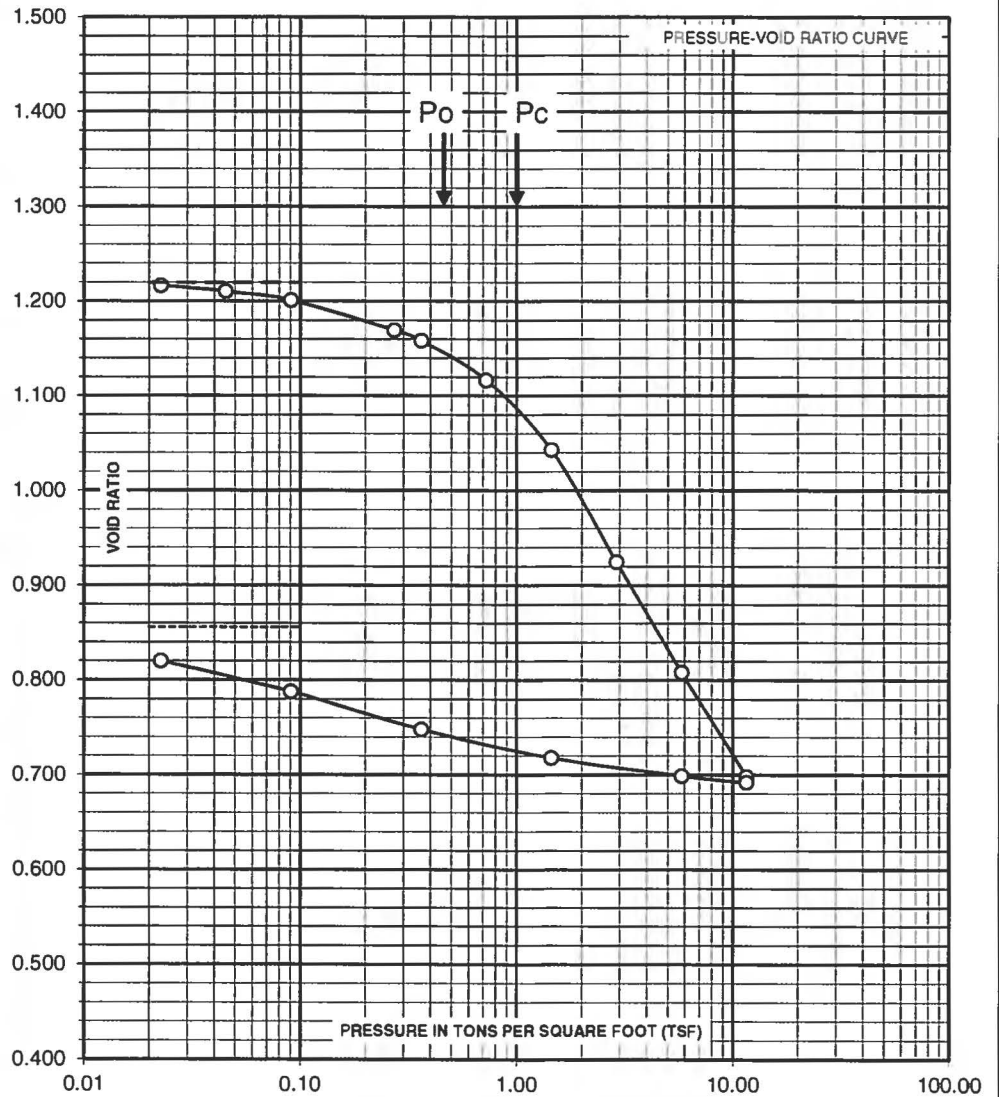
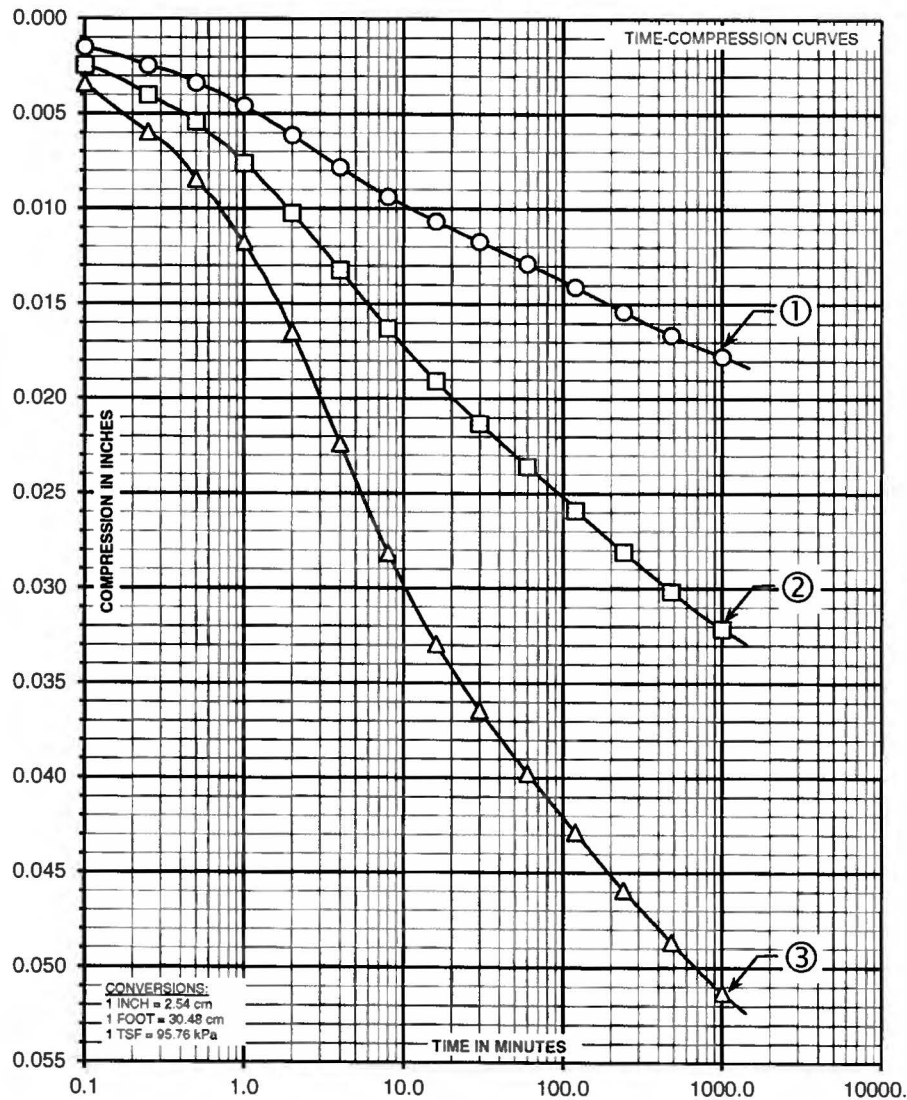




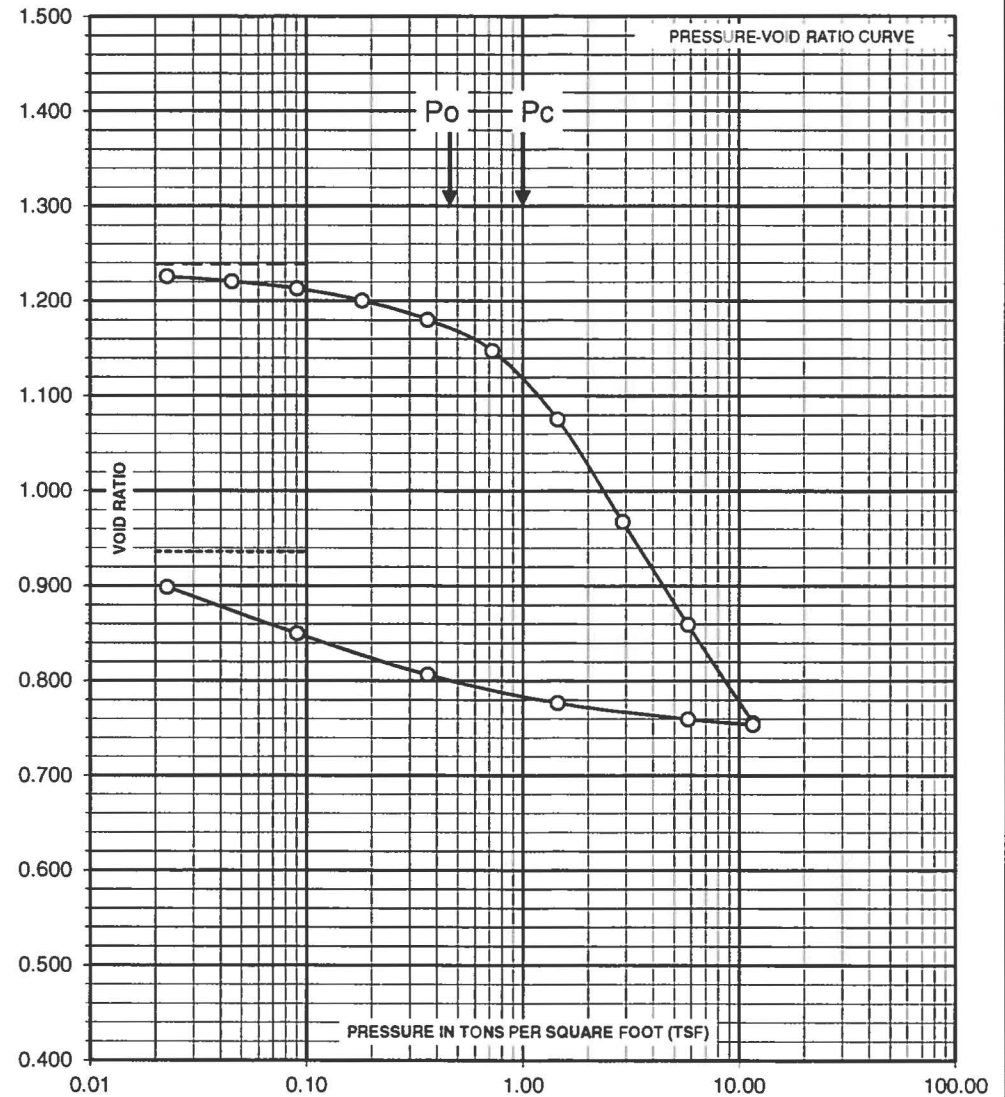
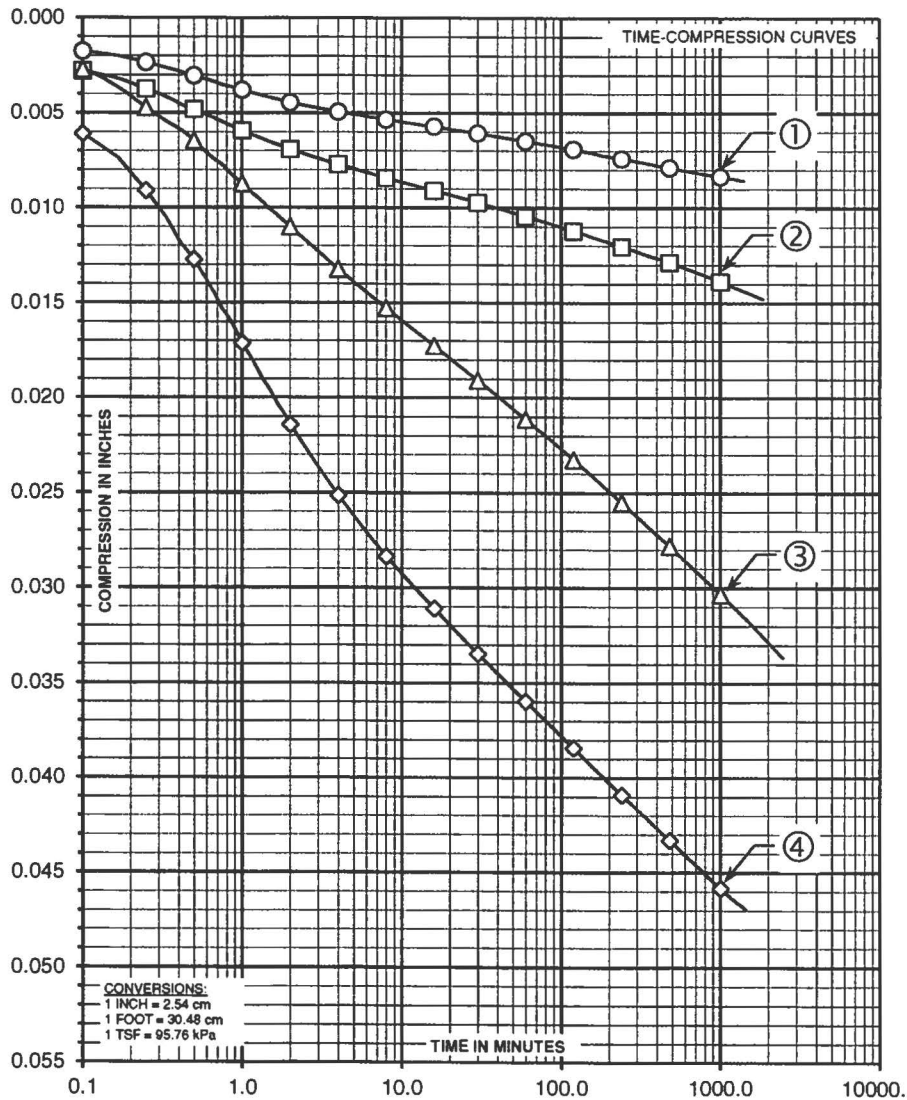
CURVE NO.	INCREMENT		SPECIMEN DESCRIPTION:	STRATUM	BAY PARK STP - PERIMETER FLOOD PROTECTION	
	FROM (TSF)	TO (TSF)				BAY PARK
○	0.36	0.72	GRAY BROWN PEAT, TRACE ORGANIC SILTY CLAY	O	MUESER RUTLEDGE CONSULTING ENGINEERS 225 WEST 34TH STREET, NEW YORK, N.Y. 10122	
□	0.72	1.45				
△	1.45	2.90				
PLATE NO. C-1	UNIFIED SOILS CLASSIFICATION - PT LIQUID LIMIT, $w_L = 291$ PLASTIC LIMIT, $w_p = 209$ PLASTICITY INDEX, $I_p = 82$ NATURAL WATER CONT., $w_n \% = 251.6$ LIQUIDITY INDEX, $(w - w_p) / I_p = 0.52$ SPECIFIC GRAVITY, $G_s = 2.21$			ELEVATION OF SPECIMEN = -7.6 DEPTH OF SPECIMEN (FT) = 13.6 DIAMETER OF SPECIMEN (IN) = 2.50 INITIAL THICKNESS OF SPECIMEN (IN) = 0.998 INITIAL WATER CONTENT, % = 241.1 FINAL WATER CONTENT, % = 178.9 INITIAL DEGREE OF SATURATION, % = 97.4 FINAL DEGREE OF SATURATION, % = 96.9		ESTIMATED PRECONSOLIDATION STRESS (TSF), $P_c = 0.91$ EXISTING OVERBURDEN STRESS (TSF), $P_o = 0.48$ COMPRESSION INDEX, $C_c = 3.720$ SWELLING INDEX, $C_s = 0.640$, REBOUND FROM $e = 2.462$
PROPERTIES OF PLASTICITY LIMIT SPECIMEN			PROPERTIES OF CONSOLIDATION SPECIMEN		MADE BY: CJM DATE: 11-21-13 FILE NO. 12047 CHKD BY: RTW DATE: 11-21-13	
PROPERTIES OF PLASTICITY LIMIT SPECIMEN			PROPERTIES OF CONSOLIDATION SPECIMEN		CONSOLIDATION TEST BORING NO B-3U SAMPLE NO. 7U PLATE NO. C-1	



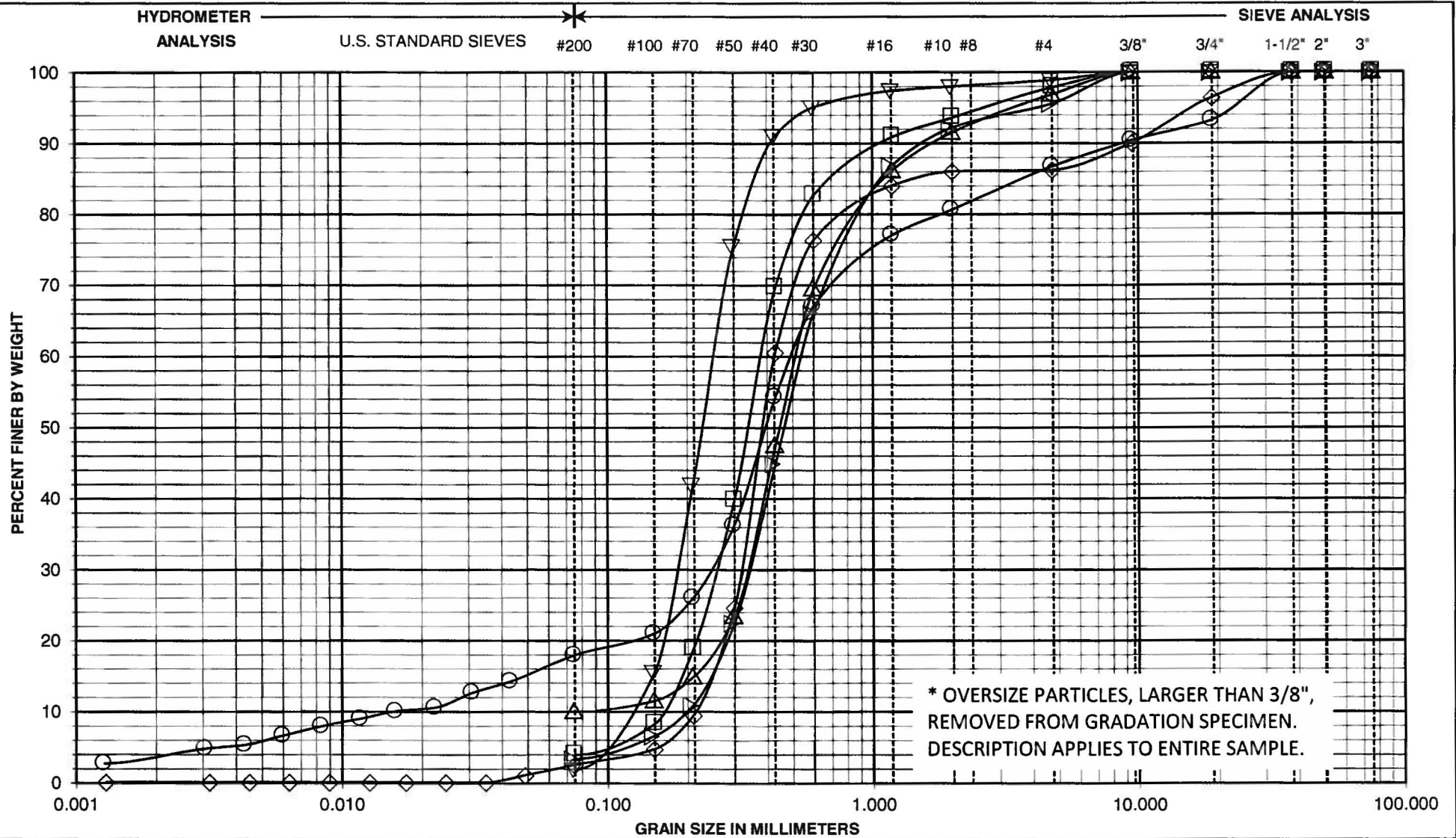
CURVE NO.	INCREMENT		SPECIMEN DESCRIPTION:	STRATUM	PROJECT
	FROM (TSF)	TO (TSF)			
○	0.36	0.72	MEDIUM GRAY ORGANIC SILTY CLAY, TRACE SHELLS	O	BAY PARK NEW YORK
□	0.72	1.45			
△	1.45	2.90			
PROPERTIES OF PLASTICITY LIMIT SPECIMEN UNIFIED SOILS CLASSIFICATION - OH LIQUID LIMIT, $w_L = 68$ PLASTIC LIMIT, $w_p = 43$ PLASTICITY INDEX, $I_p = 26$ NATURAL WATER CONT., $w_n \% = 53.1$ LIQUIDITY INDEX, $(w - w_p) / I_p = 0.41$ SPECIFIC GRAVITY, $G_s = 2.70$			PROPERTIES OF CONSOLIDATION SPECIMEN ELEVATION OF SPECIMEN = -4.7 DEPTH OF SPECIMEN (FT) = 11.5 DIAMETER OF SPECIMEN (IN) = 2.50 INITIAL THICKNESS OF SPECIMEN (IN) = 0.998 INITIAL WATER CONTENT, % = 55.3 FINAL WATER CONTENT, % = 44.0 INITIAL DEGREE OF SATURATION, % = 98.2 FINAL DEGREE OF SATURATION, % = 98.4		TEST PARAMETERS ESTIMATED PRECONSOLIDATION STRESS (TSF), $P_c = 1.05$ EXISTING OVERBURDEN STRESS (TSF), $P_o = 0.46$ COMPRESSION INDEX, $C_c = 0.634$ SWELLING INDEX, $C_s = 0.094$, REBOUND FROM $e = 0.991$
PROPERTIES OF PLASTICITY LIMIT SPECIMEN			TEST PARAMETERS		CONSOLIDATION TEST BORING NO B-6U SAMPLE NO 6U



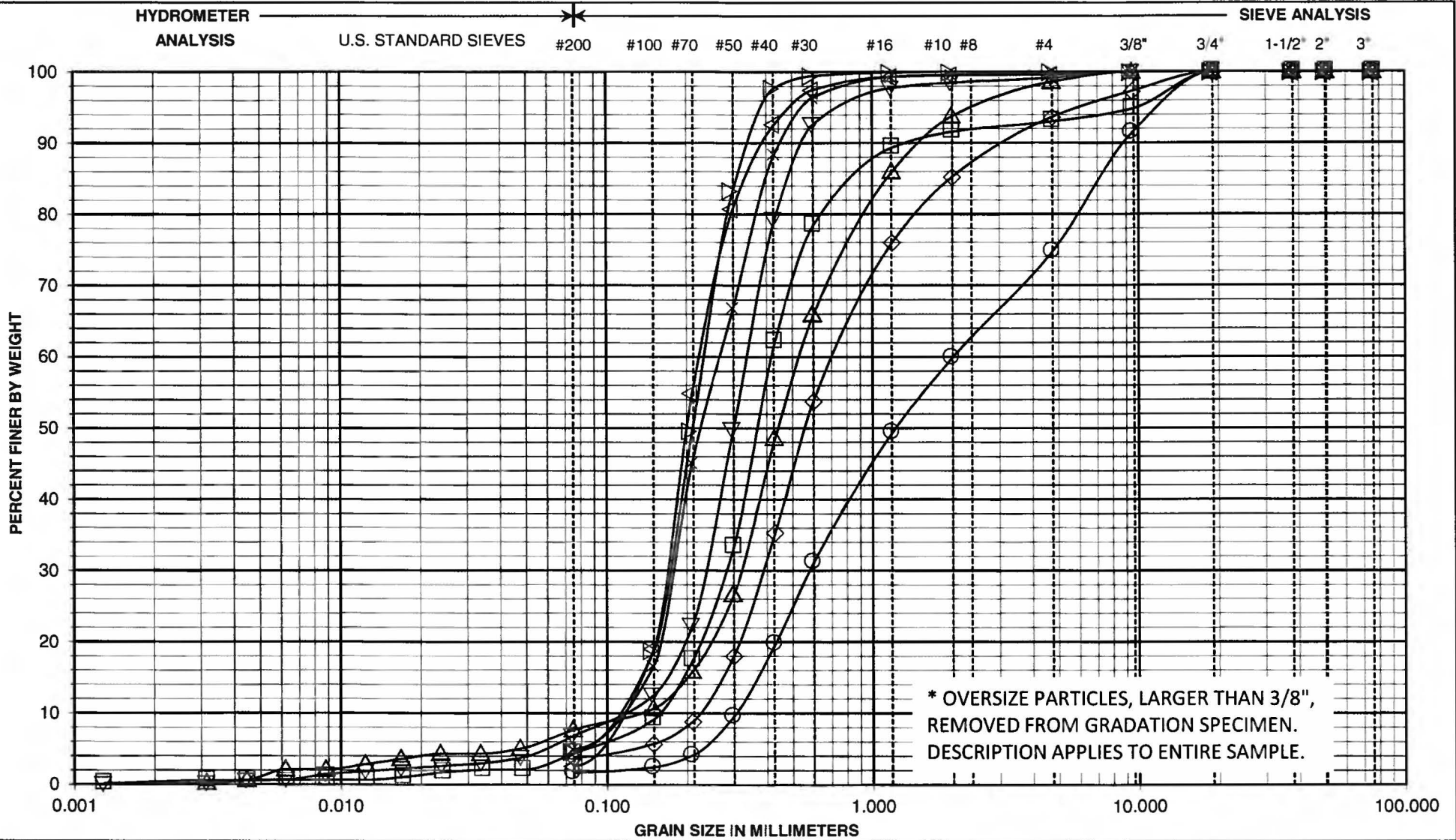
CURVE NO.	INCREMENT		SPECIMEN DESCRIPTION:	MEDIUM GRAY ORGANIC SILTY CLAY, TRACE SHELLS	STRATUM O	BAY PARK STP - PERIMETER FLOOD PROTECTION	
	FROM (TSF)	TO (TSF)					
○	0.36	0.72	UNIFIED SOILS CLASSIFICATION - OH-CH LIQUID LIMIT, $w_L = 56$ PLASTICITY INDEX, $I_p = 28$ PLASTICITY INDEX, $I_p = 29$ NATURAL WATER CONT., $w_n, \% = 50.2$ LIQUIDITY INDEX, $(w - w_p) / I_p = 0.78$ SPECIFIC GRAVITY, $G_s = 2.61$	ELEVATION OF SPECIMEN = -7.6 DEPTH OF SPECIMEN (FT) = 13.0 DIAMETER OF SPECIMEN (IN) = 2.50 INITIAL THICKNESS OF SPECIMEN (IN) = 0.992 INITIAL WATER CONTENT, $\% = 47.9$ FINAL WATER CONTENT, $\% = 34.3$ INITIAL DEGREE OF SATURATION, $\% = 102.3$ FINAL DEGREE OF SATURATION $\% = 104.4$	--- INITIAL VOID RATIO, $e_0 = 1.220$ FINAL VOID RATIO, $e_f = 0.856$ ESTIMATED PRECONSOLIDATION STRESS (TSF), $P_c = 1.00$ EXISTING OVERBURDEN STRESS (TSF), $P_o = 0.46$ COMPRESSION INDEX, $C_c = 0.398$ SWELLING INDEX, $C_s = 0.058$, REBOUND FROM $e = 0.692$	MUESER RUTLEDGE CONSULTING ENGINEERS 225 WEST 34TH STREET, NEW YORK, N.Y. 10122	
□	0.72	1.45				MADE BY: CJM DATE: 11-27-13 FILE NO. 12047 CHKD BY: RTW DATE: 11-27-13	
△	1.45	2.90				CONSOLIDATION TEST BORING NO B-7UP SAMPLE NO. 7U PLATE NO. C-3	
PLATE NO. C-3	PROPERTIES OF PLASTICITY LIMIT SPECIMEN		PROPERTIES OF CONSOLIDATION SPECIMEN				



CURVE NO.	INCREMENT		SPECIMEN DESCRIPTION: MEDIUM GRAY ORGANIC SILTY CLAY, TRACE SHELLS	STRATUM O	BAY PARK NEW YORK
	FROM (TSF)	TO (TSF)			
○	0.18	0.36	UNIFIED SOILS CLASSIFICATION - OL LIQUID LIMIT, $w_L = 49$ PLASTIC LIMIT, $w_p = 29$ PLASTICITY INDEX, $I_p = 20$ NATURAL WATER CONT., $w_n, \% = 38.4$ LIQUIDITY INDEX, $(w - w_p) / I_p = 0.46$ SPECIFIC GRAVITY, $G_s = 2.67$	ELEVATION OF SPECIMEN = -7.3 DEPTH OF SPECIMEN (FT) = 13.1 DIAMETER OF SPECIMEN (IN) = 2.51 INITIAL THICKNESS OF SPECIMEN (IN) = 0.990 INITIAL WATER CONTENT, $\% = 47.0$ FINAL WATER CONTENT, $\% = 35.4$ INITIAL DEGREE OF SATURATION, $\% = 101.1$ FINAL DEGREE OF SATURATION, $\% = 100.9$	MADE BY: CJM DATE: 11-27-13 FILE NO. 12047 CHKD BY: RTW DATE: 11-27-13
□	0.36	0.72			
△	0.72	1.45			
◇	2.90	5.79			
PROPERTIES OF PLASTICITY LIMIT SPECIMEN			PROPERTIES OF CONSOLIDATION SPECIMEN	ESTIMATED PRECONSOLIDATION STRESS (TSF), $P_c = 1.00$ EXISTING OVERBURDEN STRESS (TSF), $P_o = 0.46$ COMPRESSION INDEX, $C_c = 0.362$ SWELLING INDEX, $C_s = 0.068$, REBOUND FROM $e = 0.754$	CONSOLIDATION TEST BORING NO. B-8U SAMPLE NO. 7U PLATE NO. C-4



UNIFIED SOILS CLASSIFICATION					CLAY OR SILT			SAND			GRAVEL		COBBLES		
					FINE			MEDIUM			FINE	COARSE			
PLATE NO. G-1	SYMBOL	BORING	SAMPLE	STRATUM	OVERSIZED	DESCRIPTION OF SAMPLE							BAY PARK STP		
	○	B-1	2HA	F		Brown fine to coarse sand, some silt, gravel (SM)							BAY PARK NEW YORK		
	□	B-1	3HA	F	15.9	Tan brown fine to medium sand, some gravel, trace coarse sand, silt (SP)							MUESER RUTLEDGE CONSULTING ENGINEERS		
	△	B-1	5D	S	2.3	Brown medium to fine sand, trace silt, coarse sand, gravel (SP-SM)							225 WEST 34TH STREET, NEW YORK, N.Y. 10122		
	◇	B-1	7D	S		Tan brown fine to medium sand, some gravel, trace silt (SP)							MADE BY: CJM	DATE: 12-16-13	FILE NO.
	▽	B-1	9D	S		Tan brown fine to medium sand, trace silt, gravel, coarse sand (SP)							CH'KD BY: RTW	DATE: 12-19-13	12047
	▷	B-1	11D	S	6.6	Tan and orange brown medium to fine sand, trace gravel, silt, coarse sand (SP)							GRADATION CURVES		
											BORING NO. B-1		G-1		



UNIFIED SOILS CLASSIFICATION					CLAY OR SILT			SAND			GRAVEL		COBBLES	
					FINE	MEDIUM	COARSE	FINE	COARSE					
PLATE NO. G-2	SYMBOL	BORING	SAMPLE	STRATUM	---% OVERSIZED	DESCRIPTION OF SAMPLE						BAY PARK STP		
	○	B-2P	2HA	F		Tan and light brown fine to coarse sand, some gravel, trace silt (SP)						BAY PARK	NEW YORK	
	□	B-2P	5D	S		Brown fine to medium sand, trace gravel, silt, coarse sand (SP)						MUESER RUTLEDGE CONSULTING ENGINEERS		
	△	B-2P	8D	S		Green brown medium to fine sand, trace silt, coarse sand, gravel, peat (SP-SM)						225 WEST 34TH STREET, NEW YORK, N.Y. 10122		
	◇	B-2P	9D	S		Green brown fine to coarse sand, trace gravel, silt (SP)						MADE BY: CJM	DATE: 12-16-13	FILE NO.
	▽	B-2P	10D	S		Green brown fine to medium sand, trace silt, gravel, coarse sand (SP-SM)						CH'KD BY: RTW	DATE: 12-19-13	12047
	▷	B-2P	13D	S		Orange brown fine sand, trace silt, medium sand (SP)						GRADATION CURVES		PLATE NO.
	△	B-2P	16D	S		Light brown fine to medium sand, trace silt (SP)						BORING NO. B-2P		G-2
×	B-2P	20D	S		Tan fine to medium sand, trace silt (SP-SM)									