

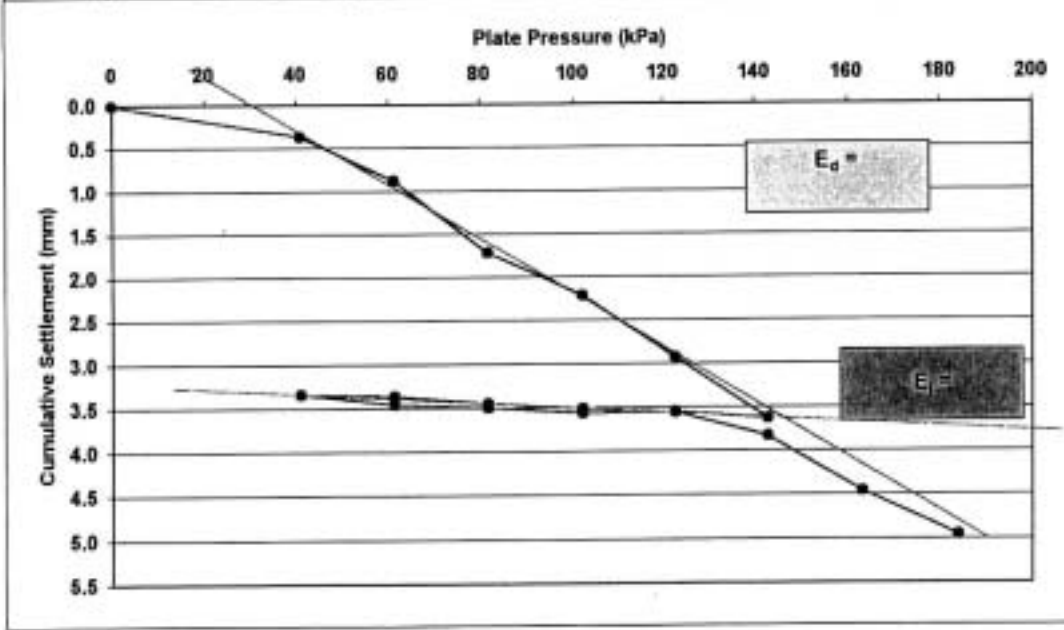
8. 自然条件调查结果

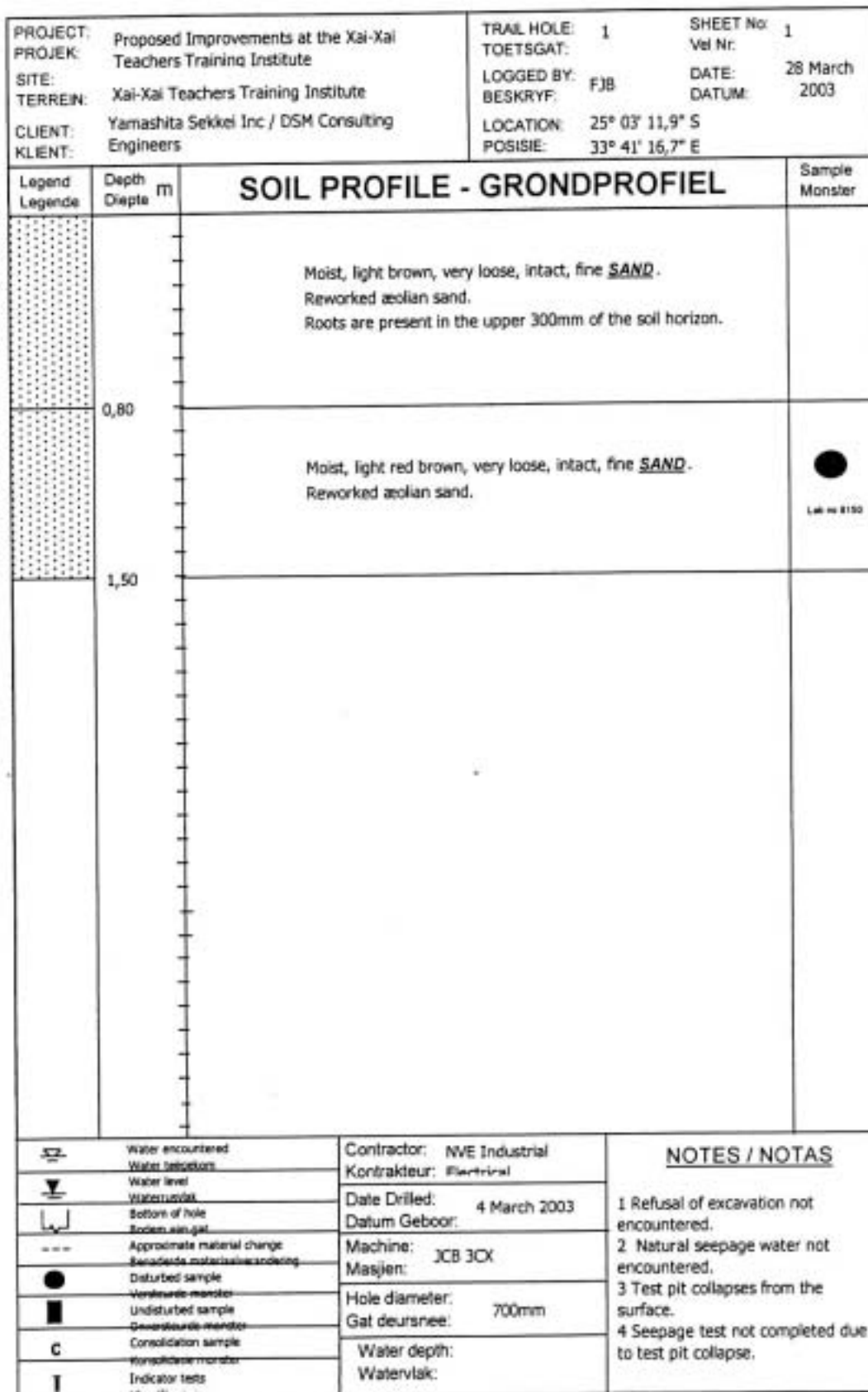
8. 自然条件調査結果

(1) 地質調査結果

TEST 1

Plate Diameter = 300mm		PLT1	TP1	1.5M	
GAUGE (MPa)	READING (mm)	DEFLECTION (mm)			PLATE PRESSURE (MPa)
		TOTAL	SINGLE PLATE	CUMULATIVE	
0	18.65	0.000	0.000	0.000	0
2	17.93	0.720	0.360	0.360	41
3	16.9	1.030	0.515	0.875	61
4	15.23	1.670	0.835	1.710	82
5	14.23	1.000	0.500	2.210	102
6	12.8	1.430	0.715	2.925	122
7	11.4	1.400	0.700	3.625	143
6	11.56	-0.160	-0.080	3.545	122
5	11.54	0.020	0.010	3.555	102
4	11.67	-0.130	-0.065	3.490	82
3	11.75	-0.080	-0.040	3.450	61
2	11.98	-0.230	-0.115	3.335	41
3	11.94	0.040	0.020	3.355	61
4	11.76	0.180	0.090	3.445	82
5	11.63	0.130	0.065	3.510	102
6	11.55	0.080	0.040	3.550	122
7	11	0.550	0.275	3.825	143
8	9.75	1.250	0.625	4.450	163
9	8.75	1.000	0.500	4.950	184





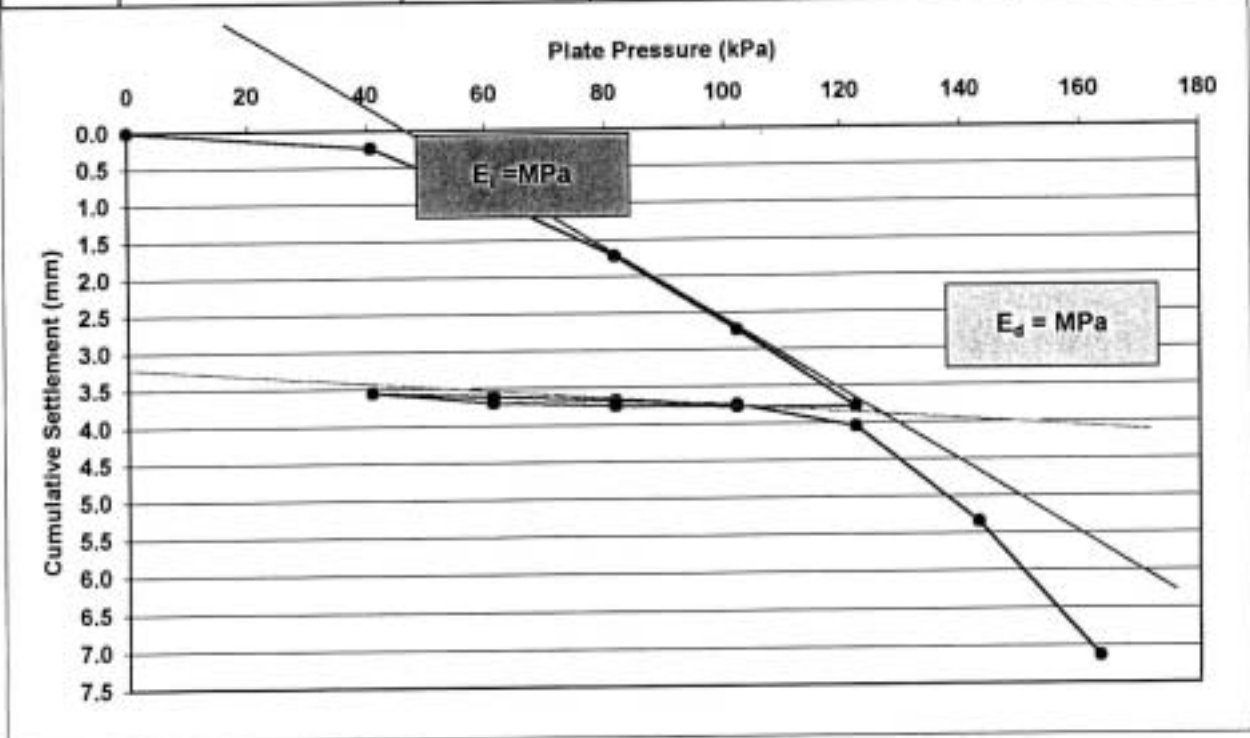
**SOIL
KRAFT**

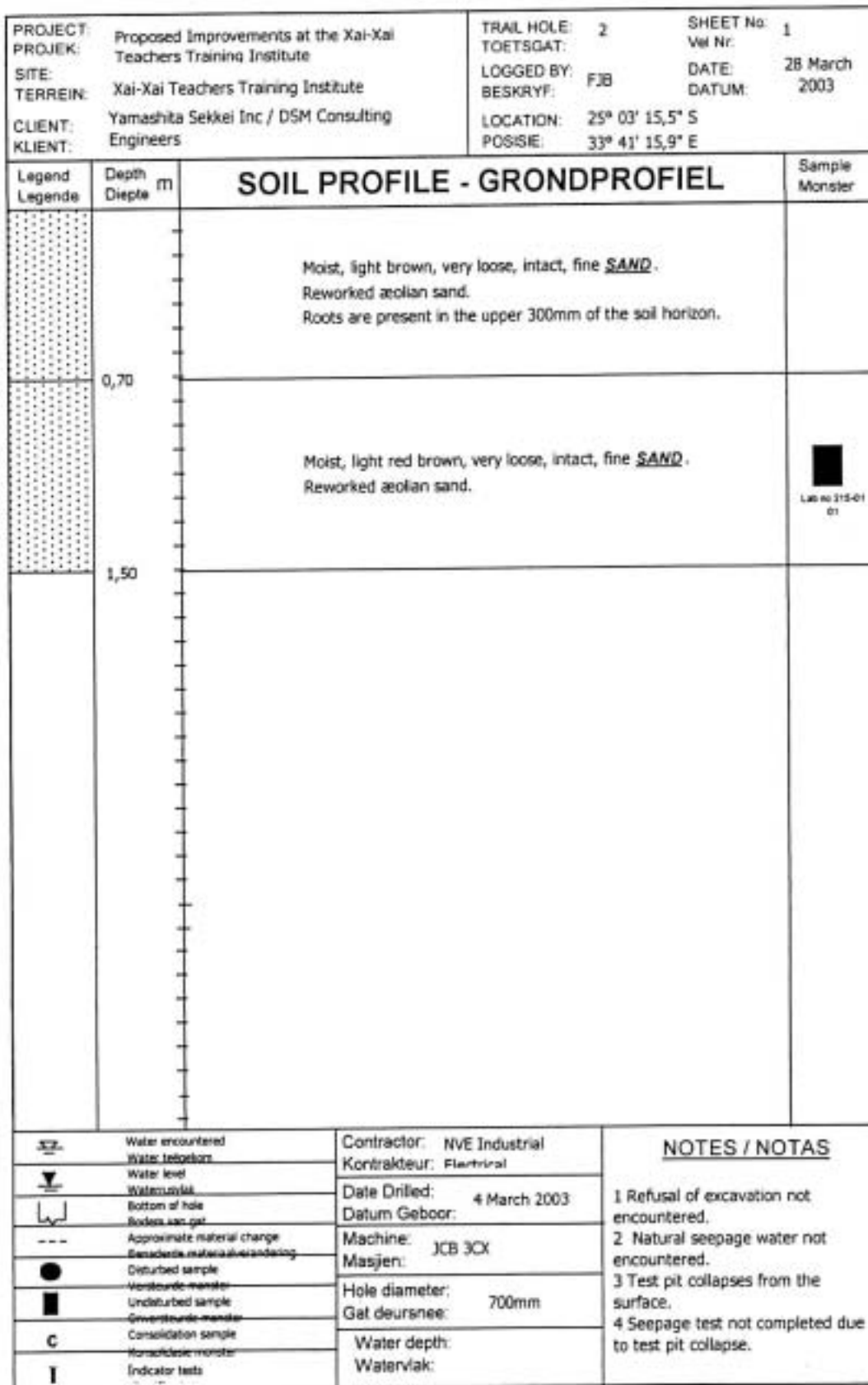
SOIL PROFILE : TEST PIT 1

FIG A1

TEST 2

Plate Diameter =300mm		PLT2	TP2	1.5M	
GAUGE (MPa)	READING (mm)	DEFLECTION (mm)			PLATE PRESSURE (MPa)
		TOTAL	SINGLE PLATE	CUMULATIVE	
0	19	0.000	0.000	0.000	0
2	18.54	0.460	0.230	0.230	41
3	17.15	1.390	0.695	0.925	61
4	15.55	1.600	0.800	1.725	82
5	13.55	2.000	1.000	2.725	102
6	11.45	2.100	1.050	3.775	122
5	11.47	-0.020	-0.010	3.765	102
4	11.52	-0.050	-0.025	3.740	82
3	11.61	-0.090	-0.045	3.695	61
2	11.91	-0.300	-0.150	3.545	41
3	11.79	0.120	0.060	3.605	61
4	11.65	0.140	0.070	3.675	82
5	11.52	0.130	0.065	3.740	102
6	10.91	0.610	0.305	4.045	122
7	8.33	2.580	1.290	5.335	143
8	4.75	3.580	1.790	7.125	163





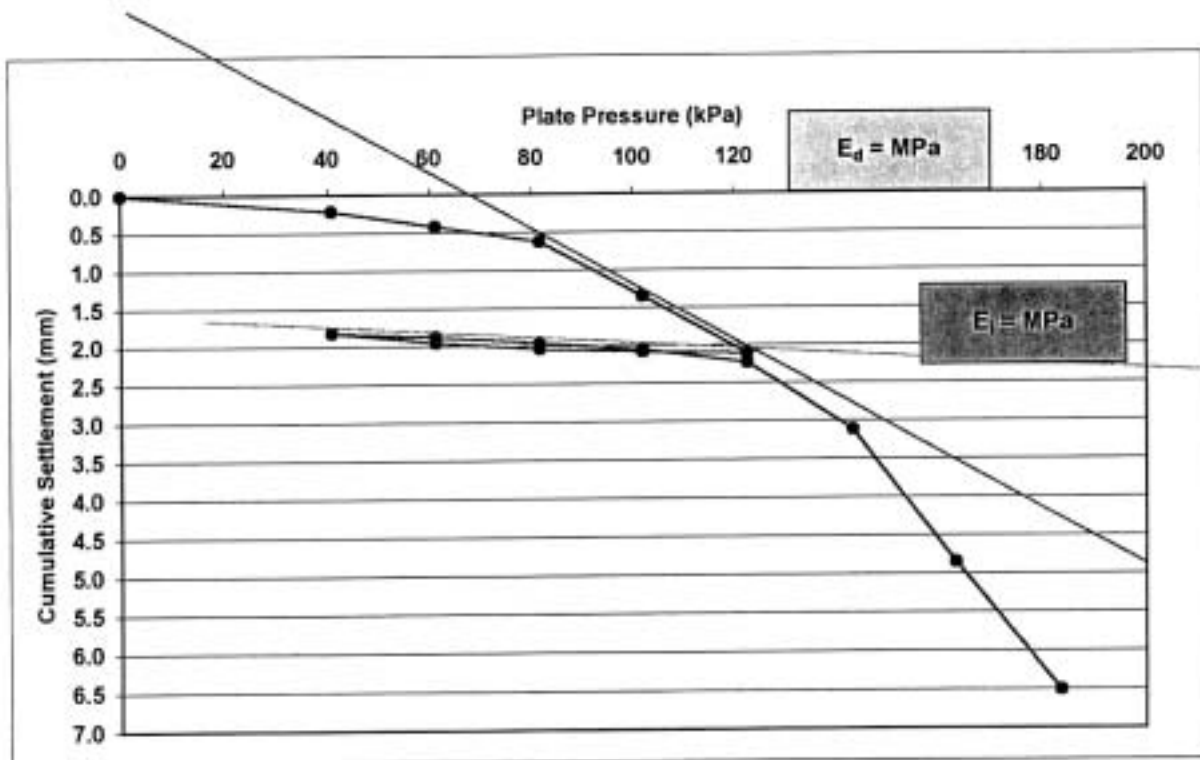
SOIL KRAFT	SOIL PROFILE : TEST PIT 2
-------------------	----------------------------------

FIG A2

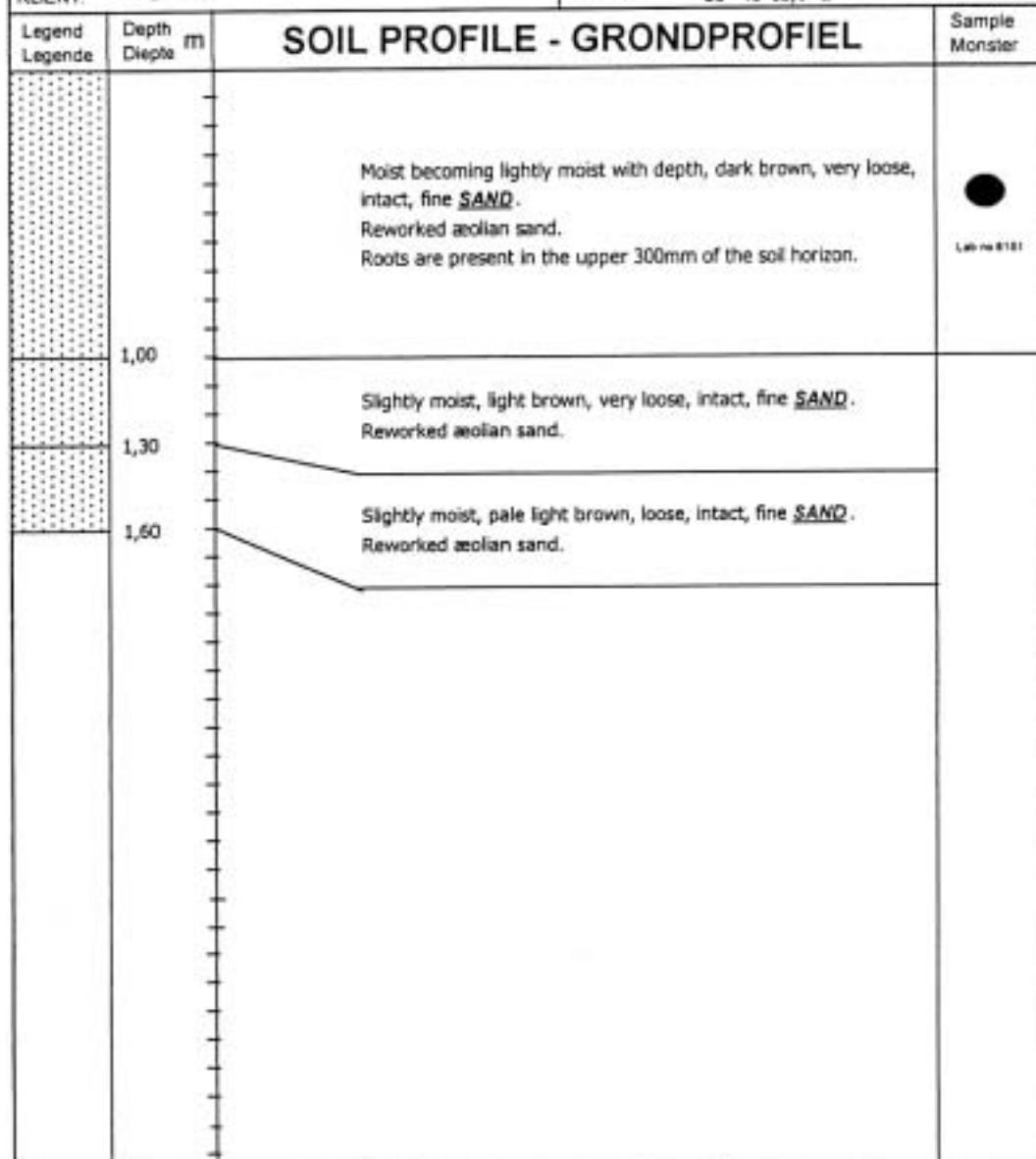
TEST 3

Plate Diameter = 300mm		PLT3	TP3	1.5
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GAUGE (MPa)	READING (mm)	DEFLECTION (mm)			PLATE PRESSURE (MPa)
		TOTAL	SINGLE PLATE	CUMULATIVE	
0	19	0.000	0.000	0.000	0
2	18.58	0.420	0.210	0.210	41
3	18.17	0.410	0.205	0.415	61
4	17.75	0.420	0.210	0.625	82
5	16.3	1.450	0.725	1.350	102
6	14.8	1.500	0.750	2.100	122
5	14.85	-0.050	-0.025	2.075	102
4	14.92	-0.070	-0.035	2.040	82
3	15.1	-0.180	-0.090	1.950	61
2	15.37	-0.270	-0.135	1.815	41
3	15.25	0.120	0.060	1.875	61
4	15.09	0.160	0.080	1.955	82
5	14.9	0.190	0.095	2.050	102
6	14.55	0.350	0.175	2.225	122
7	12.78	1.770	0.885	3.110	143
8	9.3	3.480	1.740	4.850	163
9	6	3.300	1.650	6.500	184



PROJECT: PROJEK:	Proposed Improvements at the Xai-Xai Teachers Training Institute	TRAIL HOLE: TOETSIGAT:	3	SHEET No: Vel Nr:	1
SITE: TERREIN:	Xai-Xai Teachers Training Institute	LOGGED BY: BESKRYF:	FJB	DATE: DATUM:	28 March 2003
CLIENT: KLIENT:	Yamashita Sekkei Inc / DSM Consulting Engineers	LOCATION: POSISIE:	25° 03' 10,7" S 33° 41' 13,0" E		



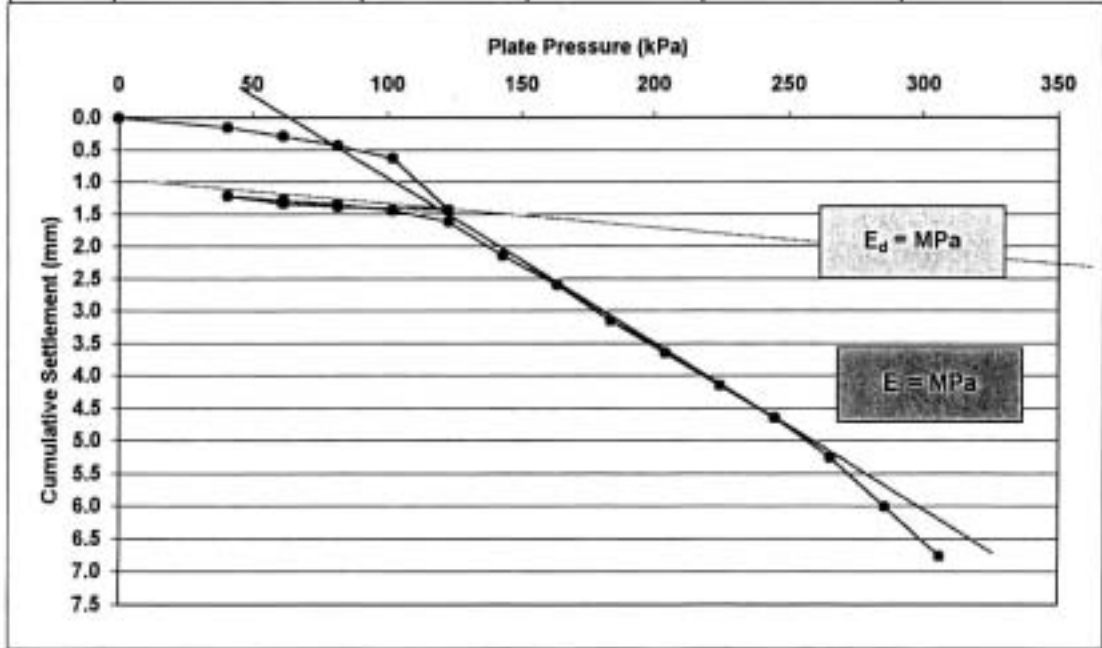
	Water encountered Water teëterloos	Contractor: Kontrakteur:	NVE Industrial Fluorinol	NOTES / NOTAS 1 Refusal of excavation not encountered. 2 Natural seepage water not encountered. 3 Seepage rate in standard seepage test = 0,536mm ³ .
	Water level Waternivoo	Date Drilled: Datum Geboor:	4 March 2003	
	Bottom of hole Bodem van gat	Machine: Masjien:	JCB 3CX	
	Approximate material change Benaderende materiaalverandering	Hole diameter: Gat deursnee:	700mm	
	Disturbed sample Versteurde monster	Water depth: Waternivoo:		
	Undisturbed sample Onversteurde monster			
	Consolidation sample Konsolideer monster			
	Indicator tests			

SOIL KRAFT	SOIL PROFILE : TEST PIT 3
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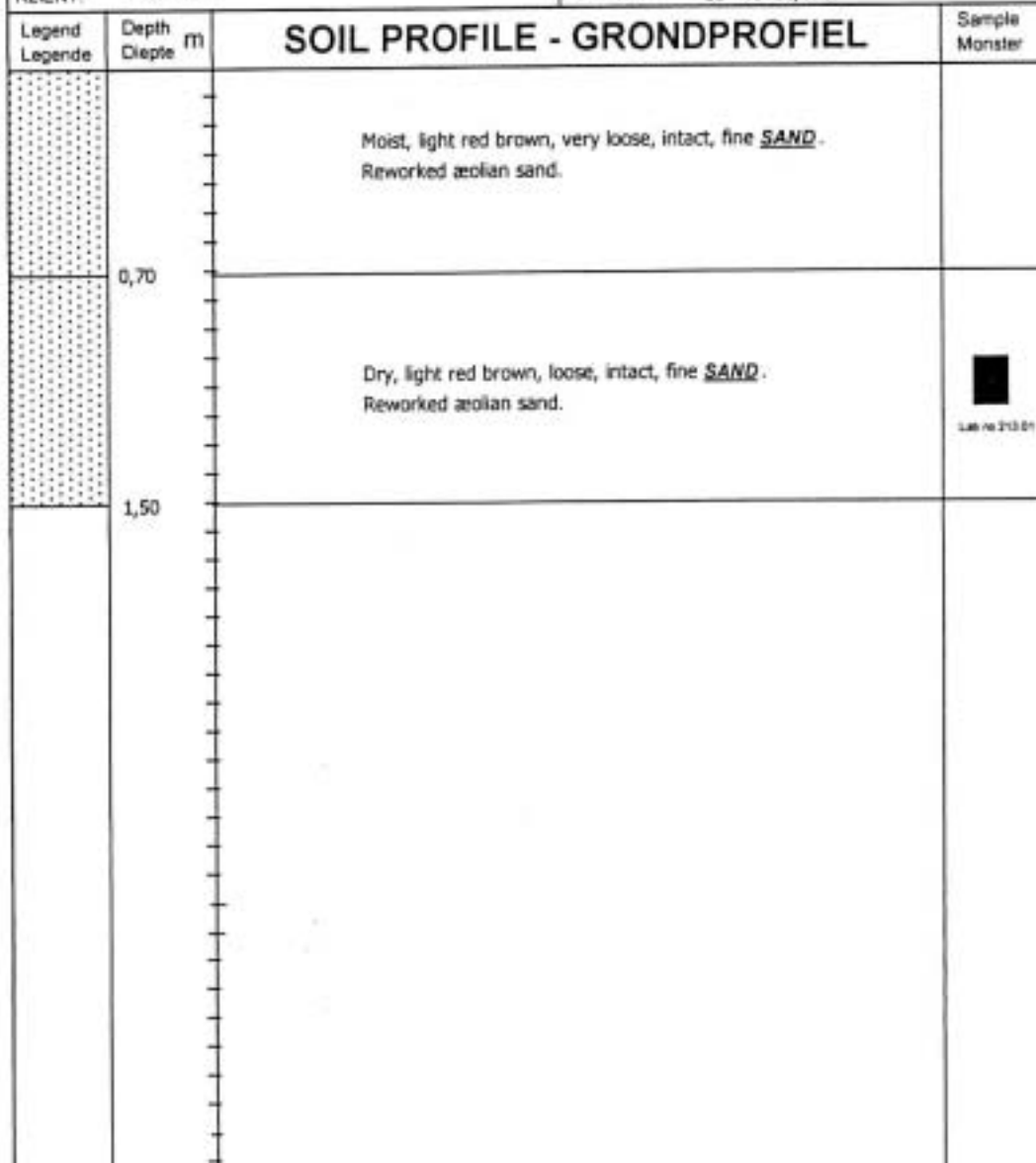
FIG A3

TEST 4

Plate Diameter = 300mm		PLT4		TP4		1.5M	
GAUGE (MPa)	READING (mm)	DEFLECTION (mm)			PLATE PRESSURE (MPa)		
		TOTAL	SINGLE PLATE	CUMULATIVE			
0	19	0.000	0.000	0.000	0		
2	18.71	0.290	0.145	0.145	41		
3	18.43	0.280	0.140	0.285	61		
4	18.14	0.290	0.145	0.430	82		
5	17.75	0.390	0.195	0.625	102		
6	16.15	1.600	0.800	1.425	122		
4	16.25	-0.100	-0.050	1.375	82		
3	16.35	-0.100	-0.050	1.325	61		
2	16.57	-0.220	-0.110	1.215	41		
3	16.43	0.140	0.070	1.285	61		
4	16.33	0.100	0.050	1.335	82		
5	16.12	0.210	0.105	1.440	102		
6	15.78	0.340	0.170	1.610	122		
7	14.73	1.050	0.525	2.135	143		
8	13.81	0.920	0.460	2.595	163		
9	12.72	1.090	0.545	3.140	184		
10	11.72	1.000	0.500	3.640	204		
11	10.72	1.000	0.500	4.140	225		
12	9.72	1.000	0.500	4.640	245		
13	8.5	1.220	0.610	5.250	265		
14	7	1.500	0.750	6.000	286		
15	5.5	1.500	0.750	6.750	306		



PROJECT: PROJEK:	Proposed Improvements at the Xai-Xai Teachers Training Institute	TRAIL HOLE: TOETSGAT:	4	SHEET No: Vel Nr:	1
SITE: TERREIN:	Xai-Xai Teachers Training Institute	LOGGED BY: BESKRYF:	FJB	DATE: DATUM:	28 March 2003
CLIENT: KLIENT:	Yamashita Sekkei Inc / DSM Consulting Engineers	LOCATION: POSISIE:	25° 03' 11,1" S 33° 41' 16,2" E		



	Water encountered Water teboekom	Contractor: NVE Industrial Kontraakteur: Fluvitrial	NOTES / NOTAS 1 Refusal of excavation not encountered. 2 Natural seepage water not encountered. 3 Seepage rate in standard seepage test = $0,382\text{mms}^{-1}$.
	Water level Waterpeelvlak	Date Drilled: Datum Geboor:	
	Bottom of hole Bodem van gat	Date Drilled: Datum Geboor:	
	Approximate material change Benaderende materiaalverandering	Machine: Masjien:	
	Disturbed sample Versteurde monster	Hole diameter: Gal deursnee:	
	Undisturbed sample Onversteurde monster	Water depth: Watervlak:	
	Consolidation sample Konsolidsasie monster		
	Indicator tests		

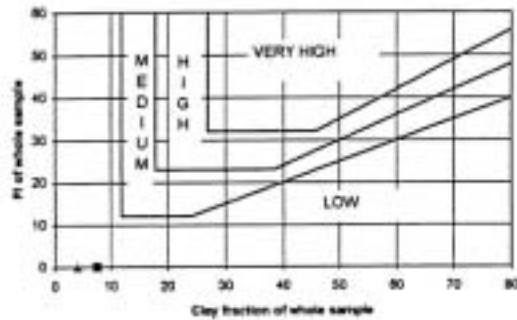
SOIL KRAFT	SOIL PROFILE : TEST PIT 4	FIG A4
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PARTICLE SIZE ANALYSIS

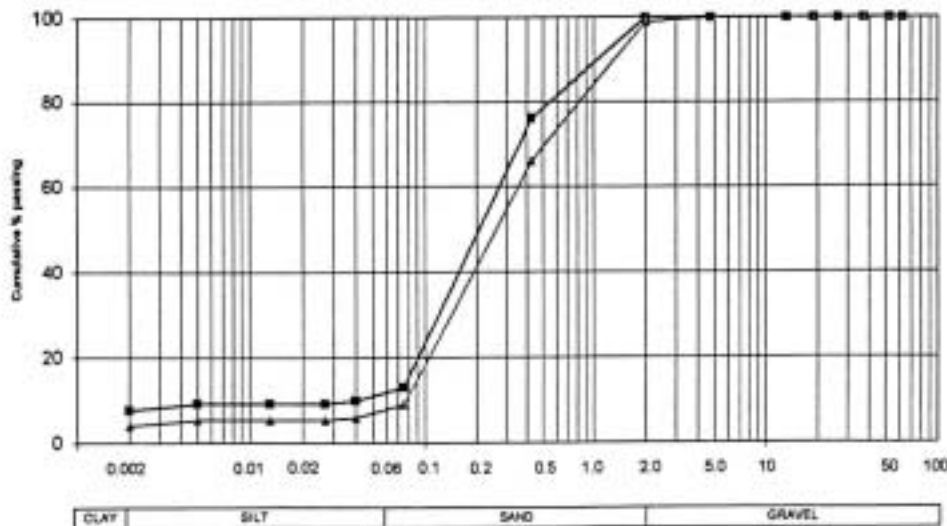
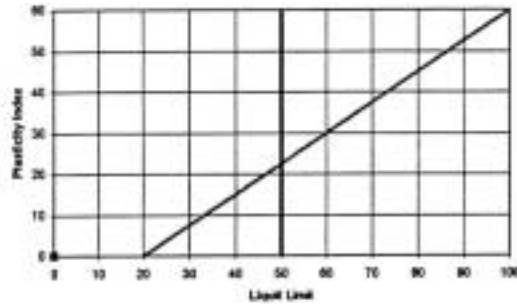
Sample / Hole No.	08150	08151
Depth (m)	0.80-1.50	0-1.00
Position	TP1	TP3
Material Description	LIGHT B/B CLAYEY SAND	DARK BROWN CLAYEY SAND
Moisture (%)		
SCREEN ANALYSIS (% PASSING)		
63.0 mm	100	100
53.0 mm	100	100
37.5 mm	100	100
26.5 mm	100	100
19.0 mm	100	100
13.2 mm	100	100
4.75 mm	100	100
2.00 mm	100	99
0.425 mm	76	66
0.075 mm	13	9
HYDROMETER ANALYSIS		
0.040 mm	10	6
0.027 mm	9	5
0.013 mm	9	5
0.006 mm	9	5
0.002 mm	8	4
% Clay	8	4
% Silt	4	4
% Sand	88	91
% Gravel	0	1
ATTERBERG LIMITS		
Liquid Limit		
Plasticity Index	SP	SP
Linear Shrinkage	0.6	0.5
Grading Modulus	1.11	1.26
Classification	A-2-4(2)	A-3(0)
Unified Classification	SC	SP & SC
Chart Reference	●—●—●	▲—▲—▲

PROJECT : XAI-XAI
 JOB NR. : S03-215
 DATE : 2003-03-06

POTENTIAL EXPANSIVENESS



PLASTICITY CHART



HYDROMETER

CLIENT : SOILKRAFT
PROJECT : XAI-XAI
PROJECT NO. : S03-215
DATE : 2003-03-16

PERMEABILITY ON UNDISTURBED SAMPLES

Sample No.	Depth (m)	Initial dry density (kg/m ³)	Initial moisture content (%)	Head of water (cm)	Coefficient of permeability (cm/s)
TP2	1.5	1535	6.9	51.0	3.083 x 10 ⁻³
TP4	0.7-1.5	1469	3.2	51.0	2.295 x 10 ⁻³

215-01

- 1 -

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(34)

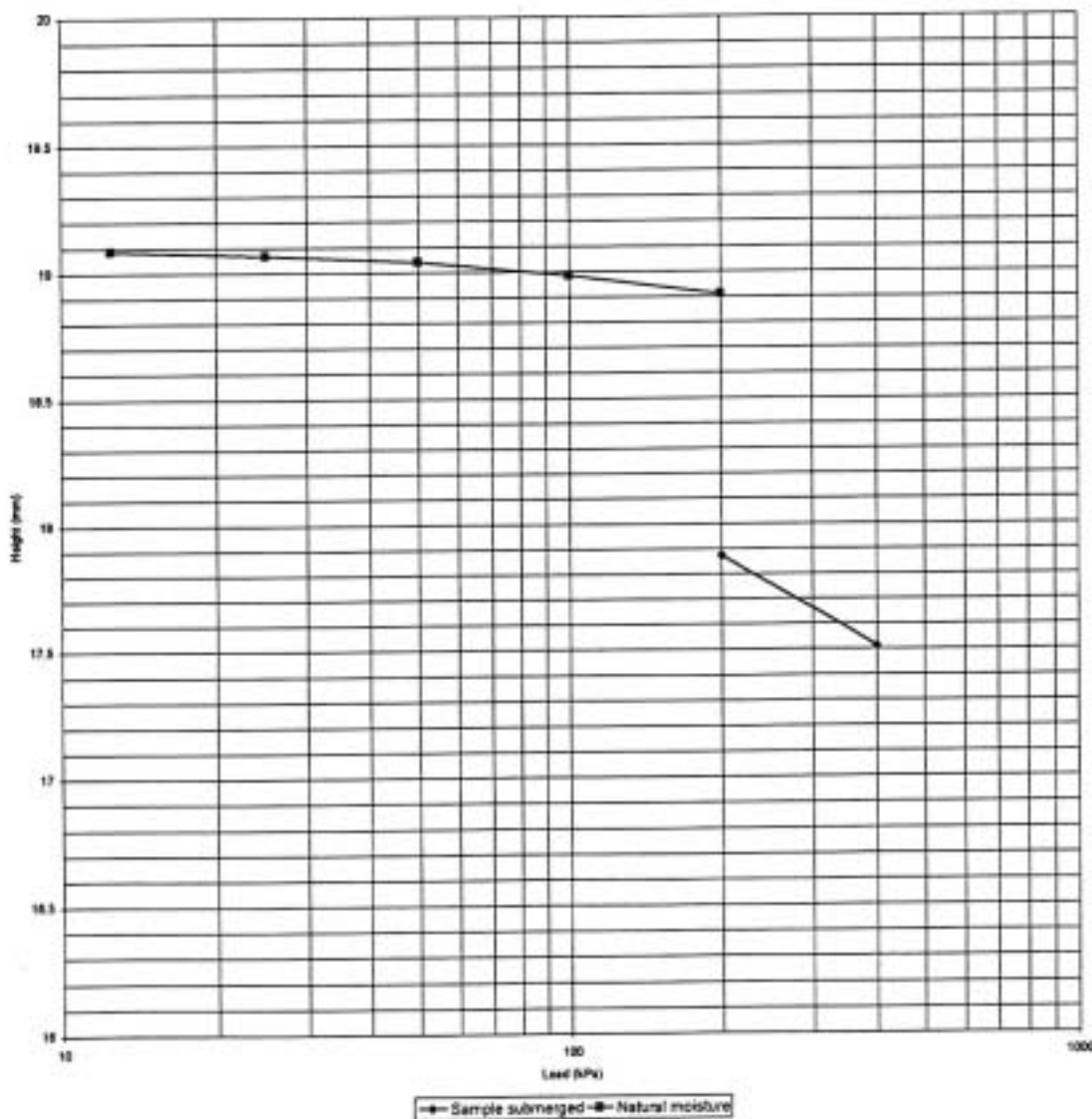
230 Albertus Street
La Montagne
Tel (012) 481-3999

P O Box 72920
Lynnwood Ridge 0040
Fax (012) 451-3812

COLLAPSE POTENTIAL

PROJECT:	XAI - XAI	INITIAL DRY DENSITY (kg/m ³)	1582
SAMPLE NR.	TP4	INITIAL MOISTURE (%)	4.1
DEPTH (m):	0.7 - 1.5	MOISTURE AFTER TEST (%)	18.2
INITIAL HEIGHT OF SAMPLE (mm)	19.1	RELATIVE DENSITY	2.644
SAMPLE CONDITION	UNDISTURBED	INITIAL VOID RATIO	0.671
		VOID RATIO AFTER SOAKING	0.563
		% COLLAPSE	5.43

LOAD (kPa)	0	12.5	25	50	100	200	400
HEIGHT (mm)	19.100	19.086	19.068	19.040	18.986	18.910	17.872
VOID RATIO	0.671	0.570	0.668	0.666	0.661	0.654	0.563



K022HNP05MHA021549

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230 Albertus Street
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Lynnwood Ridge 0040
Fax (012) 481-3312


CONTROL LIST
SYSTEM : UTM 36 SOUTH
DATUM : MEAN SEA LEVEL

NAME	EASTING	NORTHING	HEIGHT	DESCRIPTION
MHP1	569409.56	7228987.13	49.45	12mm Iron peg
MHP2	569403.73	7228981.60	49.01	Center of concrete block
MHP3	569383.46	7229102.89	47.95	12mm Iron peg
MHP4	569343.06	7228963.86	45.21	12mm Iron peg
MHP5	569423.12	7229078.92	48.80	12mm Iron peg
MHP6	569478.35	7229075.01	42.60	12mm Iron peg
MHP9	569528.38	7228882.55	44.90	12mm Iron peg
MHP10	569209.19	7229064.54	44.57	12mm Iron peg
MHP11	569193.21	7228908.24	44.69	12mm Iron peg
MHP12	569212.35	7228815.33	44.20	12mm Iron peg
MHP14	569635.28	7228697.04	49.28	12mm Iron peg
MHP13	569517.04	7228679.04	48.84	12mm Iron peg
MHP15	569479.34	7228740.91	45.28	12mm Iron peg
MHP16	569511.50	7229186.98	33.72	12mm Iron peg
MHP8	569410.56	7228874.91	49.11	12mm Iron peg



PROJECT TITLE:
THE PROJECT FOR RECONSTRUCTION OF
XAI-XAI PRIMARY TEACHER TRAINING CENTER
IN
THE REPUBLIC OF MOZAMBIQUE

CLIENT:
MINISTRY OF EDUCATION

CONSULTANT:
 **YAMASHITA SEKKEI INC.**
ARCHITECTS, ENGINEERS & CONSULTANTS,
MINAMI-OHI, SHINAGAWA-KU, TOKYO, JAPAN

APPROVED:
ARCHITECT:

NOTE:

DWG. TITLE:
TOPOGRAPHIC SURVEY MAP

SCALE:
1 : 1 000

DWG. NO:
A-00 (36)

ARCHITECTURAL DRAWING