Field Exploration Notes:

1) For the drilling operations conducted, California Modified Sampler (2.5 in. outside diameter, 2 in. inside diameter) lined with 1.94 in. diameter (Di) by 4 in. long brass rings was used to obtain undisturbed soil samples for laboratory testing.

2) The blowcounts obtained using the above-mentioned sampler were converted to Standard Penetration Test (SPT) values based on Figures 1.21 and 1.22 of *Foundation Engineering Handbook* (pp.37-38, H. F. Winterkorn & H. Fang, 1975, Van Nostrand Reinhold Company). The blowcounts shown on the boring logs for the Modified California Sampler are converted, equivalent SPT blowcounts.

3) The soil-color codes depicted on boring logs are based on the Rock-Color Chart from The Geological Society of America, the numerical color designation of which is based on Munsell System.

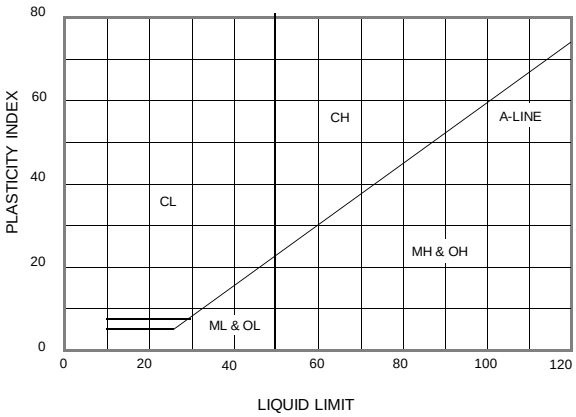
4) Figures VI-5 to VI-10 are logs of rock coring. As a measure of the quality of the rock, RQD (rock quality designation) is computed by summing the lengths of all pieces of the core equal to or longer than 100 mm (or 4 in.) and dividing by the total length of core run. The RQD is multiplied by 100 and expressed as a percentage.

UNIFIED SOIL CLASSIFICATION SYSTEMS

MAJOR DIVISION			SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS Over 50% > #200 sieve	GRAVELS Over 50% > #4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS Over 50% < #4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL GRADED SANDS, GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE GRAINED SOILS Over 50% < #200 sieve	SILTS AND CLAYS Liquid limit < 50		ML	INORGANIC SILTS, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS Liquid limit > 50		MH	INORGANIC SILTS , MICACEOUS OR DIATOMACIOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC CLAYS			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

PLASTICITY CHART

USED FOR CLASSIFICATION OF FINE GRAINED SOILS



Bedrock

SOIL GRAIN SIZE

	BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
			COARSE	FINE	COARSE	MEDIUM	FINE		
U.S. STANDARD SIEVE	6"	3"	3/4"	4	10	40	200		
SOIL GRAIN SIZE IN MILLIMETERS	150	75	19	4.75	2.0	0.425	0.075	0.005	

SAMPLE DRIVING RECORD

SPT	DESCRIPTION
25	25 BLOWS DROVE SAMPLER 12 INCHES, AFTER INITIAL 6 INCHES OF SEATING
50/7"	50 BLOWS DROVE SAMPLER 7 INCHES, AFTER INITIAL 6 INCHES OF SEATING
Ref/3"	50 BLOWS DROVE SAMPLER 3 INCHES DURING OR AFTER INITIAL 6 INCHES OF SEATING

NOTE: TO AVOID DAMAGE TO SAMPLING TOOLS, DRIVING IS LIMITED TO 50 BLOWS PER 6 INCHES DURING OR AFTER SEATING INTERVAL

KEY TO TEST DATA

LL	Liquid Limit (in percent)	Cons	Consolidation (ASTM D2435)
PI	Plasticity Index	UU	Uncons. Undrained Triaxial (ASTM D2850)
B	Bag Sample	CU	Cons. Undrained Triaxial (ASTM D4767)
	Drive, No Sample Collected	DS	Cons. Drained Direct Shear (ASTM D3080)
R	63 mm O.D. Mod. California Sampler	PP	Pocket Penetrometer
	76 mm O.D. Sampler	UCC	Unconfined Compression (ASTM D2166)
S	Standard Penetration Test	PTVS	Pocket Torvane Shear
O	Sample Attempted with No Recovery	Perm	Permeability (ASTM D2434)
	Water Level at Time of Drilling	MA	Mechanical Analysis
	Water Level after Drilling	Corr	Corrosivity (ASTM D4972)

SOIL CLASSIFICATION CHART AND BORING LOG LEGEND

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-KP 22.2/31.1		
EA NO:	08-043510	FIGURE NO.
Date:	June 2002	VI-1

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/29/2002	BORING NO.	**B-1**
ELEVATION (ft):	2247	BORING DIAMETER (in)		4	HAMMER TYPE		AUTO HAMMER
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1221+56 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE Type	BLOW COUNTS/FT	WATER CONTENT (%)	DRY DENSITY (kN/M^3)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND w/ Silt, SP, Sand: Fine, Medium (up to 2mm), Dense, Brown (10YR5/4), Dry							
2246.4	0.6	2									
2245.8	1.2	4									
					SP	S	36				
2245.2	1.8	6									
2244.6	2.4	8									
2244.0	3.0	10									
				Silty CLAY with Sand, Hard, Brown (10YR5/4), Dry	CL	R	34	12.1	16.4	Cons.	With Caliche Veins
2243.3	3.7	12								MA	
2242.7	4.3	14									
2242.1	4.9	16		Silty CLAY with Sand, Very Stiff, Brown (10YR5/4), Dry	CL	S	27				
2241.5	5.5	18									
2240.9	6.1	20									
				Silty SAND, SM, Sand: Fine, Medium, Poorly Graded, Dense, Brown (10YR5/4), Dry	SM	R	47				
2240.3	6.7	22									
2239.7	7.3	24									
					SM	S	34				
2239.1	7.9	26									
2238.5	8.5	28									
2237.9	9.1	30									
				SAND, SW, Sand: Fine, Medium, Well GradedDense, Brown (10YR5/4), Dry	SW	R	32				No Groundwater Encountered. Bottom of Hole Elevation 677.4 m
2237.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	01/29/02	VI-2

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/29/2002	BORING NO.	**B-2**
ELEVATION (ft):	2250	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			1234+69, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND, SP, Sand: Fine, Medium, Coarse, Dense, Brown (10YR5/4), Dry							
2249.4	0.6	2									
2248.8	1.2	4			SP	S	47				
2248.2	1.8	6									
2247.6	2.4	8									
2247.0	3.0	10		Sandy SILT, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	R	47	10.6	15.5	Cons.	With Caliche Veins
										MA	
2246.3	3.7	12									
2245.7	4.3	14									
				Poorly Graded SAND, SP, Sand: Medium, Very Dense, Brown (10YR5/4), Dry	SP	S	56				
2245.1	4.9	16									
2244.5	5.5	18									
2243.9	6.1	20		Poorly Graded SAND, SP, Sand: Medium, Coarse, Dense, Brown (10YR5/4), Dry	SP	R	49				
2243.3	6.7	22									
2242.7	7.3	24									
					SP	S	46				
2242.1	7.9	26									
2241.5	8.5	28									
2240.9	9.1	30		Poorly Graded SAND, SP, Sand: Medium, Coarse, Very Dense, Light Brown (10YR8/3), Dry	SP	R	70				
2240.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/29/2002	VI-3

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/29/2002	BORING NO.	**B-2**
ELEVATION (ft):	2250	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1234+69, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M^3)	Other Lab. Test	Remarks
678.3	10.7	1.0 35		Poorly Graded SAND, SP, Sand: Medium, Coarse, Very Dense, Light Brown (10YR8/3), Dry	SP	S	78				No Groundwater Encountered. Bottom of Hole Elevation 677.8 m

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/29/2002	VI-4

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/5/2002	BORING NO.	**B-23A**
ELEVATION (ft):	2250	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1323+25 (262 ft Right)	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Sandy SILT with Clay, ML, Sand: Fine, Very Dense, Yellowish Orange (10YR8/6), Dry	ML	S	100				
2249.4	0.6	2									
2248.8	1.2	4									
2248.2	1.8	6									
2247.6	2.4	8									
2247.0	3.0	10		Sandy SILT with Clay, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	R	33	13.0	16.9	MA	
										DS	
2246.3	3.7	12									
2245.7	4.3	14									
				Silty SAND w/ Gravel, SM, Sand: Fine, Medium, Poorly Graded, Gravel: upto 10 mm, Angular & Subangular, Very Dense, Brown (10YR5/4), Dry	SM	S	85				
2245.1	4.9	16									
2244.5	5.5	18									
2243.9	6.1	20		Silty SAND, SM, Sand: Fine, Medium, Poorly Graded, Very Dense, Brown (10YR5/4), Dry	SM	R	75	10.2	17.6	MA	
										DS	
2243.3	6.7	22									
2242.7	7.3	24									
				Silty SAND, SM, Sand: Fine, Medium, Coarse, Well Graded, Very Dense, Brown (10YR5/4), Dry	SM	S	100				
2242.1	7.9	26									
2241.5	8.5	28									
2240.9	9.1	30		Silty SAND, SM, Sand: Fine, Medium, Poorly Graded, Very Dense, Yellowish Orange (10YR8/6), Dry	SM	R	51/4"				No Groundwater Encountered. Bottom of Hole Elevation 676.4 m
2240.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/5/2002	VI-11

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/5/2002	BORING NO.	**B-23B**
ELEVATION (ft):	2231	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1341+30 (262 ft Right)	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M^3)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Dense, Brown (10YR5/4), Dry							
2230.4	0.6	2									
2229.8	1.2	4									
					SM	S	34				
2229.2	1.8	6									
2228.6	2.4	8									
2228.0	3.0	10		Silty SAND, SM, Sand: Fine to Medium, Well Graded, Dense, Brown (10YR5/4), Dry	SM	R	37	15.0	17.7	MA	
										DS	
2227.3	3.7	12									
2226.7	4.3	14									
				Sandy SILT, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	ML	S	63				
2226.1	4.9	16									
2225.5	5.5	18									
2224.9	6.1	20		Silty SAND, SM, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	SM	R	65				
2224.3	6.7	22									
2223.7	7.3	24									
				Poorly Graded SAND, SP, Sand: Medium, Very Dense, Brown (10YR5/4), Dry	SM	S	100				
2223.1	7.9	26									
2222.5	8.5	28									
2221.9	9.1	30		Poorly Graded SAND, SP, Sand: Fine to Medium, Very Dense, Brown (10YR5/4), Dry	SM	R	85				No Groundwater Encountered. Bottom of Hole Elevation 671.4 m
2221.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
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Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-Pm 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/5/2002	VI-12

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/30/2002	BORING NO.	**B-24**
ELEVATION (ft):	2233	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1349+50, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded Sand with Gravel, SP, Gravel: up to 5 mm, Subangular and Angular, Sand: Medium to Coarse, Dense, Brown (10YR5/4), Dry							
2232.4	0.6	2									
2231.8	1.2	4			SP	S	39				
2231.2	1.8	6									
2230.6	2.4	8									
2230.0	3.0	10		Poorly Graded Sand with Gravel, SP, Gravel: up to 5 mm, Subangular and Angular, Sand: Medium to Coarse, Very Dense,Yellowish orange (10YR8/6), Dry	SP	R	42	7.7	19.7	MA	
2229.3	3.7	12									
2228.7	4.3	14		Poorly Graded Sand, SP, Sand: Medium to Coarse, Very Dense, Brown (10YR5/4), Dry	SP	S	81				
2228.1	4.9	16									
2227.5	5.5	18									
2226.9	6.1	20		Silty SAND, SM, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	SM	R	54				
2226.3	6.7	22									
2225.7	7.3	24									
2225.1	7.9	26		Poorly Graded Sand, SP, Sand: Fine to Medium, Dense, Brown (10YR5/4), Dry	SP	S	49				
2224.5	8.5	28									
2223.9	9.1	30		Poorly Graded Sand with Gravel, SP, Gravel: up to 5 mm, Subangular and Angular, Sand: Medium to Coarse, Very Dense,Yellowish orange (10YR8/6), Dry	SP	R	66				
2223.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/30/2002	VI-13

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/30/2002	BORING NO.	**B-24**
ELEVATION (ft):	2233	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1349+50, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded Sand with Gravel, SP, Gravel: up to 5 mm, Subangular and Angular, Sand: Medium to Coarse, Very Dense, Brown (10YR5/4), Dry							No Groundwater Encountered. Bottom of Hole Elevation 668.8 m
2222.3	10.7	35			SP	S	72				
2221.7	11.3	37									
2221.1	11.9	39									
2220.5	12.5	41									
2219.9	13.1	43									
2219.3	13.7	45									
2218.7	14.3	47									
2218.1	14.9	49									
2217.5	15.5	51									
2216.8	16.2	53									
2216.2	16.8	55									
2215.6	17.4	57									
2215.0	18.0	59									
2214.4	18.6	61									
2213.8	19.2	63									
2213.2	19.8	65									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/30/2002	VI-14

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/30/2002	BORING NO.	**B-25**
ELEVATION (ft):	2232	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1362+62, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND, SP, Sand: Fine, Dense, Brown (10YR5/4), Dry							
2231.4	0.6	2									
2230.8	1.2	4			SP	S	33				
2230.2	1.8	6									
2229.6	2.4	8									
2229.0	3.0	10		Well Graded SAND, SW, Sand: Fine to Coarse, Dense, Brown (10YR5/4), Dry	SW	R	49	1.7	18.8	MA	
										Cons.	
2228.3	3.7	12									
2227.7	4.3	14		Well Graded SAND, SW, Sand: Fine to Coarse, Very Dense, Brown (10YR5/4), Dry	SW	S	62				
2227.1	4.9	16									
2226.5	5.5	18									
2225.9	6.1	20		Poorly Graded SAND, SP, Sand: Medium, Very Dense, Yellowish Orange (10YR8/6), Dry	SP	R	51				
2225.3	6.7	22									
2224.7	7.3	24									
2224.1	7.9	26		Silty SAND, SM, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	SM	S	52				
2223.5	8.5	28									
2222.9	9.1	30		Silty SAND, SM, Sand: Fine, Dense, Brown (10YR5/4), Dry	SM	R	29				
2222.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/30/2002	VI-15

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/30/2002	BORING NO.	**B-25**
ELEVATION (ft):	2232	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1362+62, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0									
669.3	10.7	35		Sandy SILT with Clay, ML, Sand: Fine, Medium Dense, Brown (10YR5/4), Dry	ML	R	19				No Groundwater Encountered. Bottom of Hole Elevation 668.8 m
2220.7	11.3	37									
2220.1	11.9	39									
2219.5	12.5	41									
2218.9	13.1	43									
2218.3	13.7	45									
2217.7	14.3	47									
2217.1	14.9	49									
2216.5	15.5	51									
2215.8	16.2	53									
2215.2	16.8	55									
2214.6	17.4	57									
2214.0	18.0	59									
2213.4	18.6	61									
2212.8	19.2	63									
2212.2	19.8	65									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/30/2002	VI-16

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/31/2002	BORING NO.	**B-26**
ELEVATION (ft):	2228	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1375+75, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Very Dense, Brown (10YR5/4), Dry							
2227.4	0.6	2									
2226.8	1.2	4			SM	S	53				
2226.2	1.8	6									
2225.6	2.4	8									
2225.0	3.0	10		Silty SAND, SM, Sand: Fine to Coarse, Well Graded, Very Dense, Yellowish Orange (10YR8/6), Dry	SM	R	51	9.3	18.2	MA	
2224.3	3.7	12									
2223.7	4.3	14									
2223.1	4.9	16		Silty SAND, SM, Sand: Fine to Coarse, Well Graded, Very Dense, Brown (10YR5/4), Dry	SM	S	78				
2222.5	5.5	18									
2221.9	6.1	20		Silty SAND, SM, Sand: Fine to Coarse, Well Graded, Dense, Brown (10YR5/4), Dry	SM	R	48				
2221.3	6.7	22									
2220.7	7.3	24									
2220.1	7.9	26		Well Graded SAND, SW, Sand: Fine to Coarse, Dense, Brown (10YR5/4), Dry	SW	S	44				
2219.5	8.5	28									
2218.9	9.1	30		Poorly Graded SAND, SP, Sand: Medium to Coarse, Very Dense, Yellowish Orange (10YR8/6), Dry	SP	R	57				
2218.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/31/2002	VI-17

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/31/2002	BORING NO.	**B-26**
ELEVATION (ft):	2228	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1375+75, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0									
667.3	10.7	35		SILT with Sand, Sand: Fine, Medium Dense, Brown (10YR5/4), Dry	ML	S	29				No Groundwater Encountered. Bottom of Hole Elevation 666.8 m
2216.7	11.3	37									
2216.1	11.9	39									
2215.5	12.5	41									
2214.9	13.1	43									
2214.3	13.7	45									
2213.7	14.3	47									
2213.1	14.9	49									
2212.5	15.5	51									
2211.8	16.2	53									
2211.2	16.8	55									
2210.6	17.4	57									
2210.0	18.0	59									
2209.4	18.6	61									
2208.8	19.2	63									
2208.2	19.8	65									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/31/2002	VI-18

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/31/2002	BORING NO.	**B-27**
ELEVATION (ft):	2224	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1388+87, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine to Medium, Well Graded, Dense, Brown (10YR5/4), Dry							
2223.4	0.6	2									
2222.8	1.2	4			SM	S	32				
2222.2	1.8	6									
2221.6	2.4	8									
2221.0	3.0	10		Silty SAND, SM, Sand: Fine to Medium, Well Graded, Very Dense, Brown (10YR5/4), Dry	SM	R	54	9.9	18.0	MA	
2220.3	3.7	12									
2219.7	4.3	14			SM	S	64				
2219.1	4.9	16									
2218.5	5.5	18									
2217.9	6.1	20		Sandy SILT, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	R	37				
2217.3	6.7	22									
2216.7	7.3	24									
2216.1	7.9	26		Silty SAND, SM, Sand: Fine, Well Graded, Very Dense, Brown (10YR5/4), Dry	SM	S	42				
2215.5	8.5	28									
2214.9	9.1	30		Sandy SILTwith Clay, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	R	34				
2214.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/31/2002	VI-19

LOGGED BY:	Haitao Liu	DRILL RIG:	CS1000	DATE	1/31/2002	BORING NO.	**B-27**
ELEVATION (ft):	2224	BORING DIAMETER (in)		4	HAMMER TYPE	AUTO HAMMER	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			STA 1388+87, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Sandy SILTwith Clay, ML, Sand: Fine, Medium Dense, Brown (10YR5/4), Dry	ML	S	25				No Groundwater Encountered. Bottom of Hole Elevation 665.8 m
666.3	10.7	35									
2212.7	11.3	37									
2212.1	11.9	39									
2211.5	12.5	41									
2210.9	13.1	43									
2210.3	13.7	45									
2209.7	14.3	47									
2209.1	14.9	49									
2208.5	15.5	51									
2207.8	16.2	53									
2207.2	16.8	55									
2206.6	17.4	57									
2206.0	18.0	59									
2205.4	18.6	61									
2204.8	19.2	63									
2204.2	19.8	65									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	1/31/2002	VI-20

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/7/2002	BORING NO.	**B-35**
ELEVATION (ft):	2215	BORING DIAMETER (in)		8	HAMMER TYPE		Manual Hammer
DRILLING METHOD		HSA		Location (Offset & Station)		STA 1420+03, CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND with Gravel, SP, Sand: Fine to Medium, Gravel: up to 10 mm, Subangular, Dense, Yellowish Orange (10YR8/6), Dry							
2214.4	0.6	2									
2213.8	1.2	4			SP	S	36				
2213.2	1.8	6									
2212.6	2.4	8									
2212.0	3.0	10		Well Graded SAND with Silt, SW-SM, Sand: Fine to Coarse, Very Dense, Brown (10YR5/4), Dry	SW-SM	R	57	1.8	16.5	MA	With Caliche
										Cons.	
2211.3	3.7	12									
2210.7	4.3	14									
				Sandy SILT with Gravel, ML, Sand: Fine, Gravel: upto 10 mm, Subangular, Very Dense, Brown (10YR5/4), Dry	ML	S	58				
2210.1	4.9	16									
2209.5	5.5	18									
2208.9	6.1	20		Well Graded SAND with Silt, SW-SM, Sand: Fine to Coarse, Very Dense, Brown (10YR5/4), Dry	SW-SM	R	63				
2208.3	6.7	22									
2207.7	7.3	24									
					SW	S	84				
2207.1	7.9	26									
2206.5	8.5	28									
2205.9	9.1	30		Gravelly SAND, SP, Sand: Medium to Coarse, Poorly Graded, Gravel: up to 10 mm, Angular and Subangular, Very Dense, Brown (10YR5/4), Dry	SP	R	72				No Groundwater Encountered. Bottom of Hole Elevation 666.4 m
2205.2	9.8	32									

EXPLORATORY BORING LOGS

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Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/7/2002	VI-21

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/6/2002	BORING NO.	**B-36**
ELEVATION (ft):	2203	BORING DIAMETER (in)		8	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1447+26 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Sandy SILT with Clay, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry							
2202.4	0.6	2									
2201.8	1.2	4									
					ML	S	71				
2201.2	1.8	6									
2200.6	2.4	8									
2200.0	3.0	10									
					ML	R	50/4"	9.0	16.8	MA	
2199.3	3.7	12									Drilling Terminated due to Refusal. No Groundwater Encountered. Bottom of Hole Elevation 668.5 m
2198.7	4.3	14									
2198.1	4.9	16									
2197.5	5.5	18									
2196.9	6.1	20									
2196.3	6.7	22									
2195.7	7.3	24									
2195.1	7.9	26									
2194.5	8.5	28									
2193.9	9.1	30									
2193.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/6/2002	VI-22

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/6/2002	BORING NO.	**B-37**
ELEVATION (ft):	2196	BORING DIAMETER (in)		8	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1473+83 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine to Coarse, Well Graded, Dense, Brown (10YR5/4), Dry							
2195.4	0.6	2									
2194.8	1.2	4									
					SM	S	46				
2194.2	1.8	6									
2193.6	2.4	8									
2193.0	3.0	10			SM	R	42	7.1	16.1	MA	
2192.3	3.7	12									
2191.7	4.3	14									
				Poorly Graded SAND with Silt, SP, Sand: Fine to Medium, Dense, Brown (10YR5/4), Dry	SP	S	38				
2191.1	4.9	16									
2190.5	5.5	18									
2189.9	6.1	20		Sandy SILT, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	ML	R	58				
2189.3	6.7	22									
2188.7	7.3	24									
				Sandy SILT, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	S	48				
2188.1	7.9	26									
2187.5	8.5	28									
2186.9	9.1	30		SILT with Sand, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	ML	R	70				No Groundwater Encountered. Bottom of Hole Elevation 659.4 m
2186.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/6/2002	VI-23

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/7/2002	BORING NO.	**B-38**
ELEVATION (ft):	2190	BORING DIAMETER (in)		8	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1500+08 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Poorly Graded, Dense, Brown (10YR5/4), Dry							
2189.4	0.6	2									
2188.8	1.2	4									
					SM	S	33				
2188.2	1.8	6									
2187.6	2.4	8									
2187.0	3.0	10			SM	R	41	4.4	15.5	MA	
2186.3	3.7	12		Sandy SILT with Clay, ML, Sand :Fine, Dense, Brown (10YR5/4), Dry							
2185.7	4.3	14									
					ML	S	44				
2185.1	4.9	16									
2184.5	5.5	18									
2183.9	6.1	20		Sandy SILT with Clay, ML, Sand :Fine, Medium Dense, Brown (10YR5/4), Dry	ML	R	28				
2183.3	6.7	22									
2182.7	7.3	24									
				Sandy Elastic SILT, MH, Sand: Fine, Hard, Grayish orange (10YR7/4), Dry	MH	S	81				Silt with High Plasticity
2182.1	7.9	26									
2181.5	8.5	28									
2180.9	9.1	30		Silty SAND, SM, Sand: Fine to Medium, Well Graded, Very Dense, Brown (10YR5/4), Dry	SM	R	60				No Groundwater Encountered. Bottom of Hole Elevation 657.4 m
2180.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/7/2002	VI-24

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/13/2002	BORING NO.	**B-39**
ELEVATION (ft):	2184	BORING DIAMETER (in)		8	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1526+65 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND, SP, Sand: Medium to Coarse, Medium Dense, Yellowish Orange (10YR8/6), Dry							
2183.4	0.6	2									
2182.8	1.2	4			SP	S	15				
2182.2	1.8	6									
2181.6	2.4	8									
2181.0	3.0	10		Poorly Graded Gravel with Sand, GP, Sand: Goarse, Gravel: up to 20 mm, Angular to Subangular, Medium Dense, Brown (10YR5/4), Dry	GP	R	16				No Sample Recovered
2180.3	3.7	12									
2179.7	4.3	14									
2179.1	4.9	16		Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: up to to 15 mm, Angular to Subangular, Medium Dense to Dense, Yellowish Orange (10YR5/4), Dry	SP	S	18				
2178.5	5.5	18									
2177.9	6.1	20			SP	R	39	0.5	16.6	MA	
2177.3	6.7	22									
2176.7	7.3	24									
2176.1	7.9	26		SILT with Sand, ML, Sand: Fine, Very Dense, Medium Light Gray (N6), Dry	ML	S	78				
2175.5	8.5	28									
2174.9	9.1	30		Sandy SILT, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	ML	R	61				No Groundwater Encountered. Bottom of Hole Elevation 656.4 m
2174.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/13/2002	VI-25

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/13/2002	BORING NO.	**B-40**
ELEVATION (ft):	2181	BORING DIAMETER (in)		8	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1579+15 CL	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine to Medium, Poorly Graded, Medium Dense, Brown (10YR5/4), Dry							
2180.4	0.6	2									
2179.8	1.2	4			SM	S	26				
2179.2	1.8	6									
2178.6	2.4	8									
2178.0	3.0	10		Silty SAND, SM, Sand: Fine to Coarse, Poorly Graded, Medium Dense, Brown (10YR5/4), Dry	SM	R	29	12.3	17.7	MA	
2177.3	3.7	12									
2176.7	4.3	14									
				Silty SAND, SM, Sand: Fine to Medium, Poorly Graded, Dense to Very Dense, Brown (10YR5/4), Dry	SM	S	47				
2176.1	4.9	16									
2175.5	5.5	18									
2174.9	6.1	20			SM	R	54				
2174.3	6.7	22									
2173.7	7.3	24									
				SILT with Sand, Sand: Fine, Dense to Very Dense, Brown (10YR5/4), Dry	ML	S	33				
2173.1	7.9	26									
2172.5	8.5	28									
2171.9	9.1	30			ML	R	55				Trace Caliche
2171.2	9.8	32									No Groundwater Encountered. Bottom of Hole Elevation 654.4 m

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/13/2002	VI-26

LOGGED BY:	Haitao Liu	DRILL RIG:	CME-85	DATE	2/26/2002	BORING NO.	**B-28**
ELEVATION (ft):	2176	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			Lenwood STA 84+49, 16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M^3)	Other Lab. Test	Remarks
		1.0		Poorly Graded SAND, SP, Sand: Fine, Loose, Brown (10YR5/4), Dry							
2175.4	0.6	2									
2174.8	1.2	4			SP	S	9				
2174.2	1.8	6									
2173.6	2.4	8									
2173.0	3.0	10		Poorly Graded SAND, SP, Sand: Fine to Medium, Medium Dense, Brown (10YR5/4), Dry	SP	R	12	1.9	17.1	MA	
										Cons.	
2172.3	3.7	12								DS	
2171.7	4.3	14		Poorly Graded SAND, SP, Sand: Medium to Coarse, Medium Dense, Brown (10YR5/4), Dry	SP	S	18				
2171.1	4.9	16									
2170.5	5.5	18									
2169.9	6.1	20		Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: up to 15 mm, Subangular, Medium Dense, Brown (10YR5/4), Dry	SP	R	18				
2169.3	6.7	22									
2168.7	7.3	24		Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: up to 30 mm, Subangular, Medium Dense, Brown (10YR5/4), Dry	SP	S	27				
2168.1	7.9	26									
2167.5	8.5	28									
2166.9	9.1	30		Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: up to 10 mm, Subangular, Medium Dense, Brown (10YR5/4), Dry	SP	R	19				No Sample Recovered
2166.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-27

LOGGED BY:	Haitao Liu	DRILL RIG:	CME-85	DATE	2/26/2002	BORING NO.	**B-28**
ELEVATION (ft):	2176	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			Lenwood STA 84+49, 16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Elastic SILT, MH, Stiff, Brown (10YR5/4), Moist	MH	S	15				Silt with High plasticity
2165.0	11.0	36									
2164.4	11.6	38									
				Silty SAND, SM, Sand: Fine to Medium, Well Graded, Medium Dense, Dark Yellowish Brown (10YR4/2), Moist							
2163.8	12.2	40			SM	R	23	14.7	17.8	MA	
										Cons.	With Clay Lens
2163.2	12.8	42									
2162.6	13.4	44									
				Poorly Graded SAND with Silt, Sand: Fine to Medium, Dense, Brown (10YR5/4), Dry	SP	S	41				
2162.0	14.0	46									
2161.4	14.6	48									
2160.8	15.2	50		Sandy Elastic SILT, MH, Sand: Fine, Very Stiff, Dark Yellowish Brown (10YR4/2) to Brown (10YR5/4), Moist	MH	R	25	21.8	15.4	MA	Silt with High plasticity
										Cons.	
2160.2	15.8	52									
2159.5	16.5	54									
					MH	S	21				
2158.9	17.1	56									
2158.3	17.7	58									
2157.7	18.3	60		Poorly Graded SAND with Silt, Sand: Fine to Medium, Dense, Brown (10YR5/4), Moist	SP	R	33				No Groundwater Encountered. Bottom of Hole Elevation 645.3 m
2157.1	18.9	62									
2156.5	19.5	64									
2155.9	20.1	66									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-28

LOGGED BY:	Haitao Liu	DRILL RIG:	CME-85	DATE	2/26/2002	BORING NO.	**B-29**
ELEVATION (ft):	2175	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			Lenwood STA 2175, 16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Medium Dense, Pale Yellowish Brown (10YR6/2),							
2174.4	0.6	2									
2173.8	1.2	4									
					SM	S	15				
2173.2	1.8	6									
2172.6	2.4	8									
2172.0	3.0	10									
						R				MA	
2171.3	3.7	12		Dry Sandy Elastic SILT, MH, Sand: Fine, Stiff, Brown (10YR5/4), Moist	MH		10	12.7	16.4	Cons.	Silt with High Plasticity
										DS	
2170.7	4.3	14									With Clay Lens
2170.1	4.9	16		Silty SAND, SM, Sand: Fine to Coarse, Well Graded, Medium Dense, Brown (10YR5/4), Dry	SM	S	16				
2169.5	5.5	18									
2168.9	6.1	20								MA	With Clay lens
				Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: upto 20 mm, Subangular, Medium Dense, Brown (10YR5/4), Dry	SP	R	18	7.3	16.2		
2168.3	6.7	22									
2167.7	7.3	24									
					SP	S	28				
2167.1	7.9	26									
2166.5	8.5	28									
2165.9	9.1	30		Poorly Graded SAND with silt to Sandy Elastic SILT, SP-MH, Sand: Fine to Medium, Poorly Graded, Medium Dense, Brown (10YR5/4), Moist	SP	R	16	10.5	17.5	MA	With Clay Lens
										Cons.	
2165.2	9.8	32									

EXPLORATORY BORING LOGS

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CA 58 Realignment @ Hinkley		
08-SBd-58-KP 35.1/50.0		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-29

LOGGED BY:	Haitao Liu	DRILL RIG:	CME-85	DATE	2/26/2002	BORING NO.	**B-29**
ELEVATION (ft):	2175	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			Lenwood STA 91+05,16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Poorly graded SAND, SP, Sand: Fine, Very Dense, Brown (10YR5/4), Dry	SP	S	54				
2164.0	11.0	36									
2163.4	11.6	38									
2162.8	12.2	40									
						R		2.0		MA	
2162.2	12.8	42		Elastic SILT to Lean Clay, MH-CL, Stiff, Brown (10YR5/4), Moist	CL		11				Clay with Low Plasticity
2161.6	13.4	44									
2161.0	14.0	46		Poorly Graded SAND, SP, Sand: Medium to Coarse, Very Dense, Brown (10YR5/4), Dry	SP	S	61				
2160.4	14.6	48									
2159.8	15.2	50									
				Poorly Graded SAND, SP, Sand: Medium to Coarse, Medium Dense, Brown (10YR5/4), Dry	SP	R	24				With Elastic Silt Lens
2159.2	15.8	52									
2158.5	16.5	54									
2157.9	17.1	56		Elastic SILT, MH, Very Stiff, Mid. Dark Gray(N4), Moist to Dry	MH	S	19				Silt with High Plasticity
2157.3	17.7	58									
2156.7	18.3	60									
				Poorly Graded SAND with Gravel, Sand: Fine to Coarse, Gravel: up to 10 mm, Subangular & Subrounded, Dense, Dark Yellowish Orange (10YR6/6), Dry	SP	R	33				No Groundwater Encountered. Bottom of Hole Elevation 645.3 m
2156.1	18.9	62									
2155.5	19.5	64									
2154.9	20.1	66									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-30

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/14/2002	BORING NO.	**B-30**
ELEVATION (ft):	2175	BORING DIAMETER (in)		4	HAMMER TYPE	Manu Hammer	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			Lenwood STA 97+61, 39 ft Right	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Medium Dense, Pale Yellowish Brown (10YR6/2), Dry to Moist							
2174.4	0.6	2									
2173.8	1.2	4			SM	S	18				
2173.2	1.8	6									
2172.6	2.4	8									
2172.0	3.0	10			SM	R	15	17.0	15.7	MA	
										Cons.	
2171.3	3.7	12								DS	
2170.7	4.3	14									
2170.1	4.9	16		Sandy Elastic SILT, MH, Sand: Fine, Hard, Pale Yellowish Brown (10YR6/2), Dry to Moist	MH	S	31				With Caliche Silt with High Plasticity
2169.5	5.5	18									
2168.9	6.1	20									
				Silty SAND to Poorly Graded SAND with Silt, SM-SP, Sand: Fine to Coarse, Dense, Pale Yellowish Brown (10YR6/2), Dry to Moist	SM-SP	R	39	14.5	18.5	MA	
2168.3	6.7	22									
2167.7	7.3	24									
2167.1	7.9	26		Poorly Graded SAND with Gravel, SP, Sand: Medium to Coarse, Gravel: up to 10 mm, Subangular, Very Dense, Brown (10YR5/4), Dry	SP	S	56				
2166.5	8.5	28									
2165.9	9.1	30									
					SP	R	70				
2165.2	9.8	32									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/14/2002	VI-31

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/14/2002	BORING NO.	**B-30**
ELEVATION (ft):	2175	BORING DIAMETER (in)		4	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			Lenwood STA 97+61, 39 ft Right	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Elastic SILT, MH, Very Stiff, Pale Yellowish Brown (10YR6/2), Dry	MH	S	26				Silt with High Plasticity
2164.0	11.0	36									
2163.4	11.6	38									
2162.8	12.2	40									
				Well Graded SAND with Silt, SW, Sand: Fine to Medium, Very Dense, Brown (10YR5/4), Dry	SW	R	69				
2162.2	12.8	42									
2161.6	13.4	44									
2161.0	14.0	46		Elastic SILT, MH, Very Stiff, Pale Yellowish Brown (10YR6/2), Dry	MH	S	23				Silt with High Plasticity
2160.4	14.6	48									
2159.8	15.2	50									
				Well Graded SAND, SW, Sand: Fine to Medium, Very Dense, Brown (10YR5/4), Dry	SW	R	50/5"				Drilling Terminated for Blowcounts Exceed 100/ft. No Ground Water Encountered. Bottom of Hole Elevation 647.3 m
2159.2	15.8	52									
2158.5	16.5	54									
2157.9	17.1	56									
2157.3	17.7	58									
2156.7	18.3	60									
2156.1	18.9	62									
2155.5	19.5	64									
2154.9	20.1	66									

EXPLORATORY BORING LOGS

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/14/2002	VI-32

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/14/2002	BORING NO.	**B-32**
ELEVATION (ft)	2176	BORING DIAMETER (in)		4	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			Lenwood STA 110+79, 16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Sandy SILT, ML, Sand: Fine, Very Dense, Brown (10YR5/4), Dry							
2175.4	0.6	2									
2174.8	1.2	4									
					ML	S	53				
2174.2	1.8	6									
2173.6	2.4	8									
2173.0	3.0	10									
				Sandy Elastic SILT, MH, Sand: Fine, Hard, Brown (10YR5/4), Dry	MH	R	54	14.6	17.1	MA	Silt with High Plasticity
2172.3	3.7	12								Cons.	
										DS	
2171.7	4.3	14									
2171.1	4.9	16		Sandy SILT, ML, Sand: Fine to Coarse, Very Dense, Brown (10YR5/4), Dry	ML	S	91				With Caliche Veins
2170.5	5.5	18									
2169.9	6.1	20									
				Silty SAND, SM, Sand: Fine to Medium, Poorly Graded, Dense to Very Dense, Brown (10YR5/4), Dry	SM	R	47				
2169.3	6.7	22									
2168.7	7.3	24									
2168.1	7.9	26			SM	S	56				
2167.5	8.5	28									
2166.9	9.1	30									
				Poorly Graded SAND with Silt to Sandy SILT, SP-ML, Sand: Fine to Medium, Medium Dense, Brown (10YR5/4), Dry	SP-ML	R	23				
2166.2	9.8	32									

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/14/2002	VI-33

LOGGED BY:	Haitao Liu	DRILL RIG:	B-47	DATE	2/14/2002	BORING NO.	**B-32**
ELEVATION (ft):	2176	BORING DIAMETER (in)		4	HAMMER TYPE	Manual Hammer	
DRILLING METHOD		Mud Rotary	Location (Offset & Station)			Lenwood STA 110+79, 16 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Dense to Very Dense, Brown (10YR5/4), Dry							
2165.0	11.0	36			SM	S	54				
2164.4	11.6	38									
2163.8	12.2	40									
					SM	R	38				
2163.2	12.8	42									
2162.6	13.4	44									
2162.0	14.0	46		Fat CLAY, CH, Stiff, Pale Yellowish Brown (10YR6/2), Moist	CH	S	14				Clay with High Plasticity
2161.4	14.6	48									
2160.8	15.2	50									
				Sandy SILT, ML, Sand: Fine, Dense, Brown (10YR5/4), Dry	ML	R	32				
2160.2	15.8	52									
2159.5	16.5	54									
2158.9	17.1	56		Gravelly SAND, SP, Sand: Medium to Coarse, Poorly Graded, Gravel: up to 10 mm, Subangular, Very Dense, Grayish Orange (10YR7/4), Dry	SP	S	50@5"				Drilling Terminated for Blowcounts exceed 100/ft. No Ground Water Encountered. Bottom of Hole Elevationon 644.4 m
2158.3	17.7	58									
2157.7	18.3	60									
2157.1	18.9	62									
2156.5	19.5	64									
2155.9	20.1	66									

EXPLORATORY BORING LOGS

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SR58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/14/2002	VI-34

LOGGED BY:	Faheem Syed	DRILL RIG:	CME-750	DATE	2/26/2002	BORING NO.	**B-33**
ELEVATION (ft):	2176	BORING DIAMETER (in)	8	HAMMER TYPE	Auto Hammer		
DRILLING METHOD	HSA	Location (Offset & Station)	STA 1639+84, 644 ft Left				

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M^3)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine to Medium, Poorly Graded, Loose, Brown to Light brown, Dry							
2175.4	0.6	2									
2174.8	1.2	4									
					SM	R	6	1.6	14.1	MA	
2174.2	1.8	6								DS	
2173.6	2.4	8									
2173.0	3.0	10		Silty SAND, SM, Sand: Fine to Medium, Poorly Graded, Medium Dense, Brown to Light brown, Dry	SM	S	17				
2172.3	3.7	12									
2171.7	4.3	14									
2171.1	4.9	16		Sandy Lean CLAY, CL, Very Stiff, Brown to Dark Brown, Moist	CL	R	16	15.9	16.6	MA	With Caliche
										DS	Clay with Low Plasticity
2170.5	5.5	18								Cons.	
2169.9	6.1	20									
				Well Graded GRAVEL with Sand, GW, Gravel: up to 15 mm, Angular to Subangular, Sand: Coarse, Poorly Graded, Medium Dense, Brown to Light Brown, Dry	GW	S	17				
2169.3	6.7	22									
2168.7	7.3	24									
2168.1	7.9	26		Well Graded GRAVEL with Sand, GW, Gravel: up to 35 mm, Angular to Subangular, Sand: Coarse, Poorly Graded, Dense, Grayish Brown to Light Brown, Dry	GW	R	39				
2167.5	8.5	28									
2166.9	9.1	30									
2166.2	9.8	32		Well Graded GRAVEL with Sand, GW, Gravel: up to 35 mm, Angular to Subangular, Sand: Coarse, Poorly Graded, Dense, Light Brown to Grayish Brown, Dry	GW	S	35				

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-35

LOGGED BY:	Faheem Syed	DRILL RIG:	CME-750	DATE	2/26/2002	BORING NO.	**B-33**
ELEVATION (ft):	2176	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1639+84, 644 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Medium to Coarse, Poorly Graded, Medium Dense, Brown to Dark Brown, Moist	SM	S	20				
2165.0	11.0	36									
2164.4	11.6	38									
2163.8	12.2	40									
				Sandy Elastic SILT, MH, Sand: Fine, Medium Dense, Brown to Dark Brown, Moist	MH	R	23				No Groundwater Ecountered. Bottom of Hole Elevation 650.3 m
2163.2	12.8	42									
2162.6	13.4	44									
2162.0	14.0	46									
2161.4	14.6	48									
2160.8	15.2	50									
2160.2	15.8	52									
2159.5	16.5	54									
2158.9	17.1	56									
2158.3	17.7	58									
2157.7	18.3	60									
2157.1	18.9	62									
2156.5	19.5	64									
2155.9	20.1	66									

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-36

LOGGED BY:	Faheem Syed	DRILL RIG:	CME-750	DATE	2/26/2002	BORING NO.	**B-34**
ELEVATION (ft):	2174	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1636+56,625 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Silty SAND, SM, Sand: Fine, Medium Dense, Brown to Redish Brown, Dry							
2173.4	0.6	2									
2172.8	1.2	4			SM	S	16				
2172.2	1.8	6									
2171.6	2.4	8									
2171.0	3.0	10									
2170.3	3.7	12		Clayey SAND, SC, Sand: Fine, Dense, Light Brown to Brown, Dry	SC	R	33	7.7	17.7	MA	With Caliche
										Cons.	
										DS	
2169.7	4.3	14									
2169.1	4.9	16		Poorly Graded SAND with Silt, SP, Sand: Fine to Coarse, Medium Dense, Brown to Yellowish Brown, Dry	SP	S	18				
2168.5	5.5	18									
2167.9	6.1	20									
2167.3	6.7	22		Well Graded SAND, SW, Sand: Fine to Coarse, Dense, Brown to Redish Brown, SW, Dry	SW	R	39	2.3	17.4	MA	
										DS	
2166.7	7.3	24									
2166.1	7.9	26		Poorly Graded SAND with Gravel, Gravel: up to 25 mm, Angular to Subangular, Sand: Medium to Coarse, Medium Dense, Light Brown to Brown, Moist	SP	S	27				
2165.5	8.5	28									
2164.9	9.1	30									
2164.2	9.8	32		Well Graded Gravel, GW, Gravel: up to 25 mm, Subangular to Angular, Dense, Light Brown to Brown, dry	GW	R	32				

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SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-37

LOGGED BY:	Faheem Syed	DRILL RIG:	CME-750	DATE	2/26/2002	BORING NO.	**B-34**
ELEVATION (ft):	2174	BORING DIAMETER (in)		8	HAMMER TYPE	Auto Hammer	
DRILLING METHOD		HSA	Location (Offset & Station)			STA 1636+56, 625 ft Left	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	Soil Profile Description (Group name, Symbol, Consistency, Color, Moisture, Gradation, Plasticity, Structure, Cementation, Organics, Fill, Other)	U.S.C.S.	SAMPLE TYPE	BLOW COUNTS	WATER CONTENT (%)	DRY DENSITY (kN/M³)	Other Lab. Test	Remarks
		1.0		Sandy Elastic SILT, MH, Sand: Fine to Medium , Poorly graded, Stiff, Dark Brown, Moist	MH	S	15				Silt with High Plasticity
2163.0	11.0	36									
2162.4	11.6	38									
2161.8	12.2	40									
				Poorly graded SAND with Silt, SP, Sand: Fine, Dense, Light Brown to Brown, Moist	SP	R	32				
2161.2	12.8	42									
2160.6	13.4	44									
2160.0	14.0	46		Poorly graded SAND with Silt, SP, Sand: Fine to Medium, Dense, Brown to Yellowish Red, Moist	SP	S	40				No Groundwater Encountered. Bottom of Hole Elevation 647.8 m
2159.4	14.6	48									
2158.8	15.2	50									
2158.2	15.8	52									
2157.5	16.5	54									
2156.9	17.1	56									
2156.3	17.7	58									
2155.7	18.3	60									
2155.1	18.9	62									
2154.5	19.5	64									
2153.9	20.1	66									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	2/26/2002	VI-38

LOGGED BY:	J. Lancaster	DRILL RIG:	CME-750	DATE	3/5/2002	BORING NO.	**B-8**
ELEVATION (ft):	2350	BORING DIAMETER (in)		4	HAMMER TYPE		N/A
DRILLING METHOD		HQ Core	Location (Offset & Station)			STA 1277+33 (164 ft Left)	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION	Core Run Interval (ft.)	CORE RECOVERY	RQD				Remarks
		1.0									
2349.4	0.6	2		Gray N5 **Hornblende Gneiss**, moderate-to-heavily weathered, hard, moderately foliated, moderately fractured and healed with epidote infilling	0-5	42%	0%				
2348.8	1.2	4									
2348.2	1.8	6									
2347.6	2.4	8		Same as Above	5-10	36%	0%				
2347.0	3.0	10									
2346.3	3.7	12		Same as Above	10-15	10%	0%				
2345.7	4.3	14									
2345.1	4.9	16									
2344.5	5.5	18		Same as Above	15-20	10%	0%				
2343.9	6.1	20									
2343.3	6.7	22		Same as Above	20-25	16%	0%				
2342.7	7.3	24									
2342.1	7.9	26									
2341.5	8.5	28		Same as Above	25-30	12%	0%				
2340.9	9.1	30									
2340.2	9.8	32									

EXPLORATORY BORING LOGS

CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	3/5/2002	VI-5

LOGGED BY:	J. Lancaster	DRILL RIG:	CME-750	DATE	3/5/2002	BORING NO.	**B-11**
ELEVATION (ft):	2343	BORING DIAMETER (in)		4	HAMMER TYPE		N/A
DRILLING METHOD		HQ Core	Location (Offset & Station)			STA 1280+61 (164 ft Left)	

ELEVATION (m)	DEPTH (m)	DEPTH (ft)	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION	Core Run Interval (ft.)	CORE RECOVERY	RQD				Remarks
		1.0									
2324.1	18.9	62		Same as Above							
					60-65	100%	100%				
2323.5	19.5	64									
2322.9	20.1	66									
2322.3	20.7	68		Same as Above, Very intensely fractured from 67-70ft., slickensided surfaces are oriented 45-65 degrees from horizontal	65-70	93%	65%				
2321.7	21.3	70									
2321.1	21.9	72		Dark Gray N5 **Biotite Gneiss**, soft to hard, foliated, foliation oriented near vertical, very intensely fractured (mechanical and sheared), slickensided surfaces on clay gouge filled shears, moderately weathered with some hematite staining , all shears are healed	70-75	100%	10%				
2320.4	22.6	74									
2319.8	23.2	76									
2319.2	23.8	78		Same as Above	75-79	83%	63%				
2318.6	24.4	80		No Sample	79-80	0%	0%				
2318.0	25.0	82		Greenish Gray 5G6/1 **Biotite Gneiss**, soft-to-hard, foliated, biotite altered to chlorite or epidote, intensely fractured and weathered, sheared with clay slickensides on sheared surfaces, fractures are healed	80-83	100%	100%				
2317.4	25.6	84		Intensely sheared breccia, healed	83-85	100%	100%				
2316.8	26.2	86		Light Gray N7 to white **Pegmatite**, very hard, intensely fractured (sheared), shears oriented 70 degrees from horizontal	85-90	70%	58%				
2316.2	26.8	88									
2315.6	27.4	90									
2315.0	28.0	92									Boring Completed to 90 ft bgs, No Groundwater Encountered

EXPLORATORY BORING LOGS

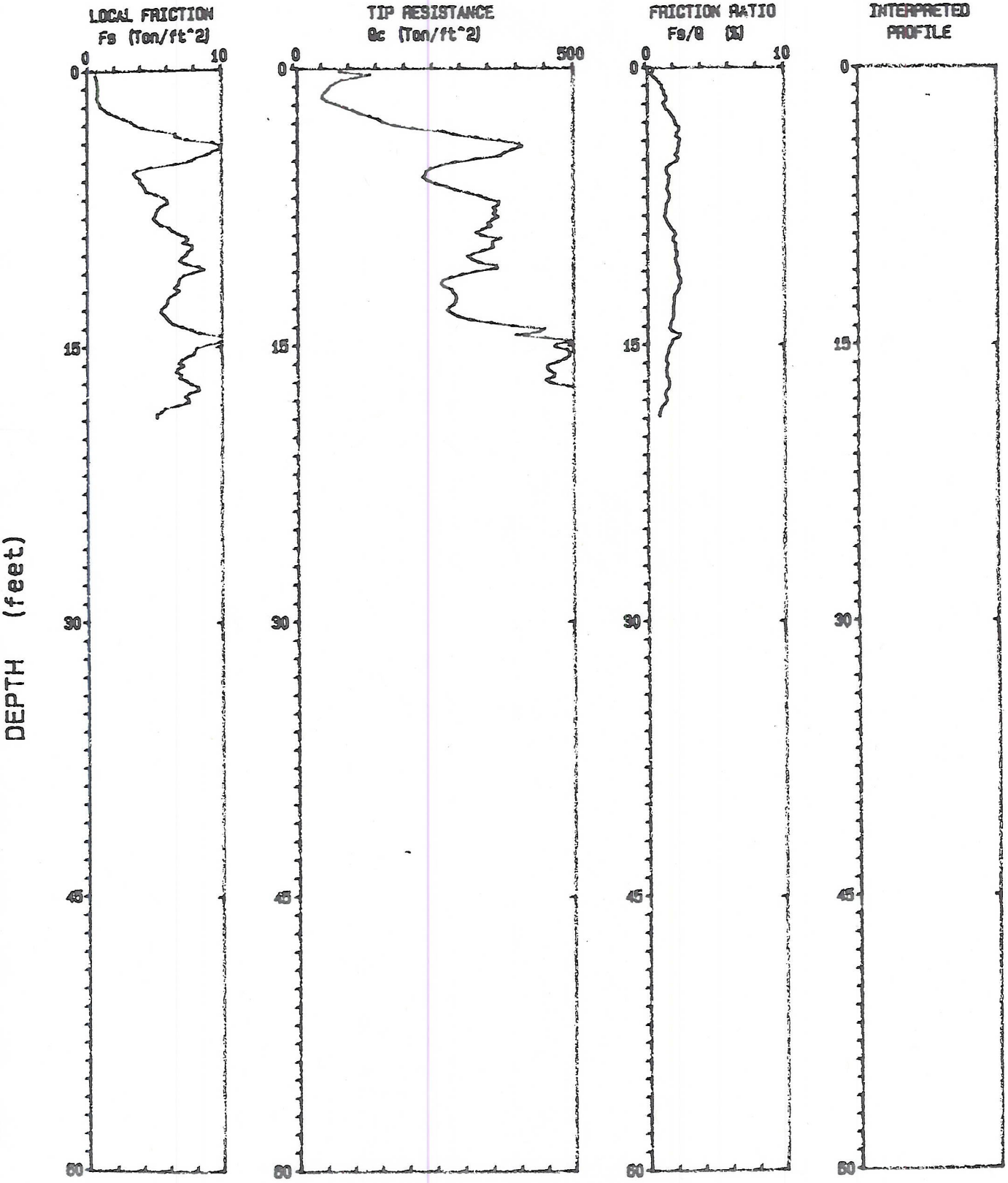
CALTRANS
Division of Engineering Services
Office of Geotechnical Design - South 2

SR 58 Realignment @ Hinkley		
08-SBd-58-PM 22.2/31.1		
EA NO.	DATE	FIGURE
08-043510	3/5/2002	VI-10

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-055 Pg 1 / 1
Cone Used : 30 TC 0

CPT Date : 02-05-02 08:35
Location : SWC1 7
Job No. : 8-043510



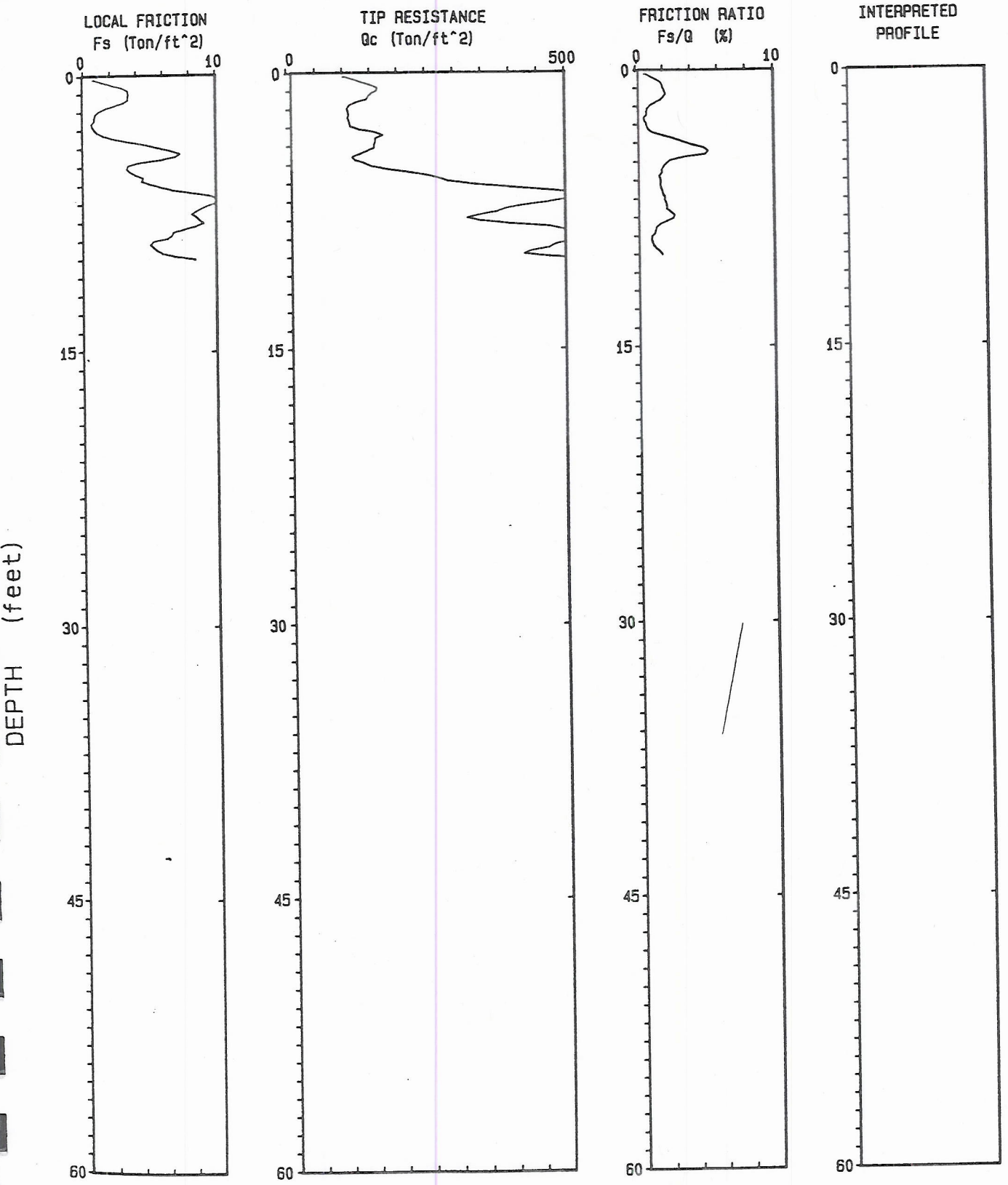
Depth Increment : .05 m

Max Depth : 19.19 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-056 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 09:17
Location : SWC2
Job No. : 08-043510



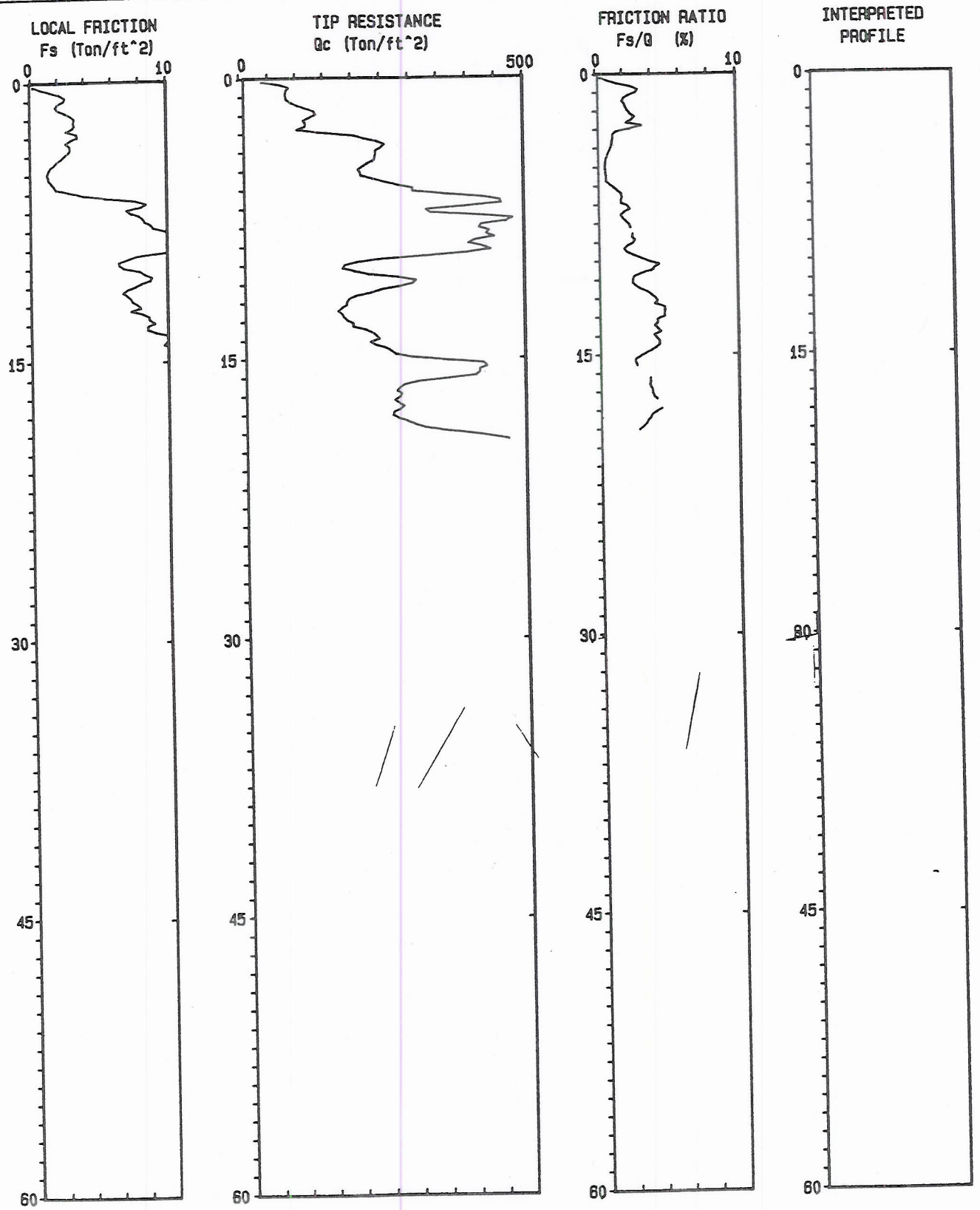
Depth Increment : .05 m

Max Depth : 10.33 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-059 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 09:56
Location : MLC1
Job No. : 08-043510



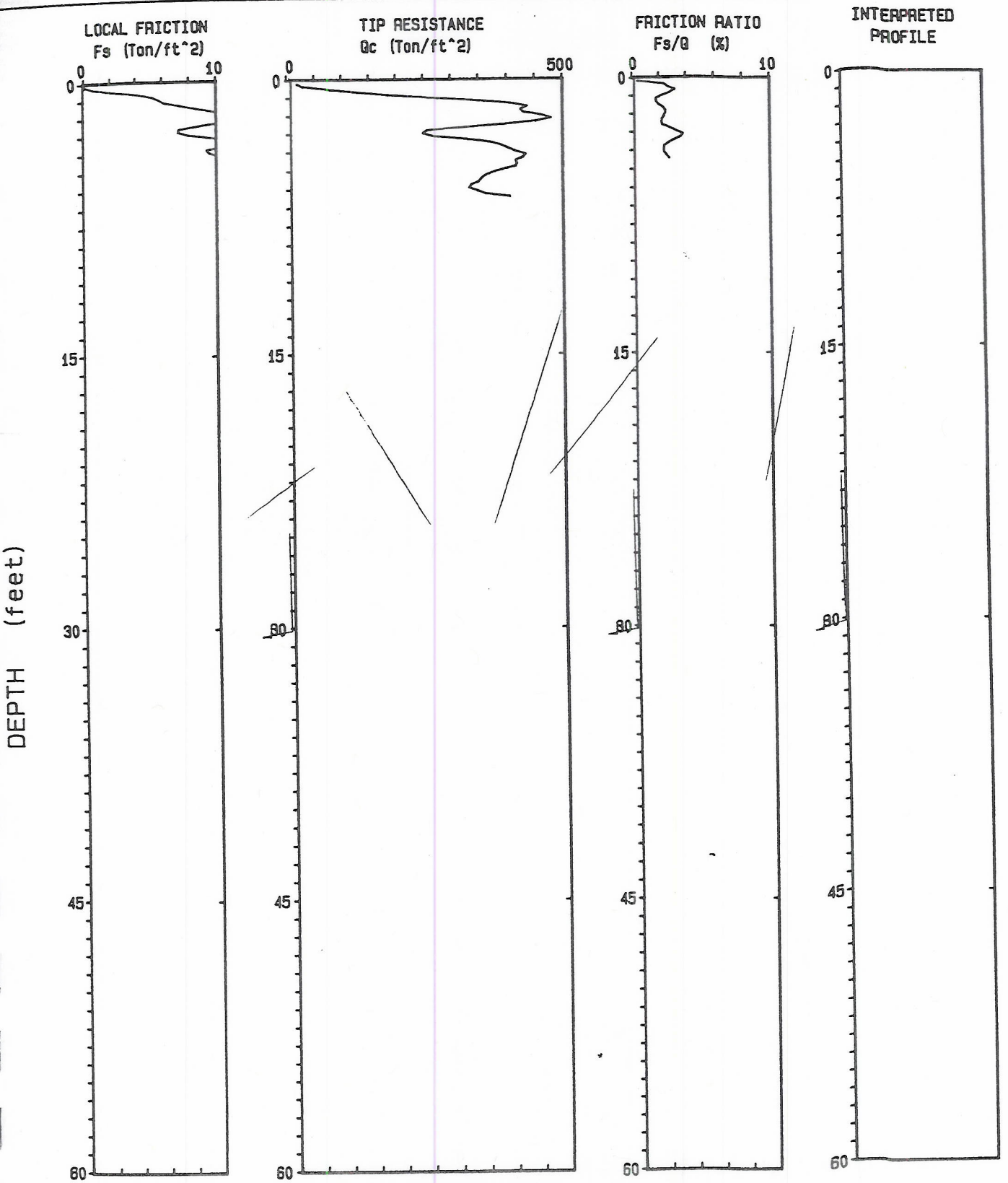
Depth Increment : .05 m

Max Depth : 19.36 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-060 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 10:21
Location : MLC2
Job No. : 08-043510



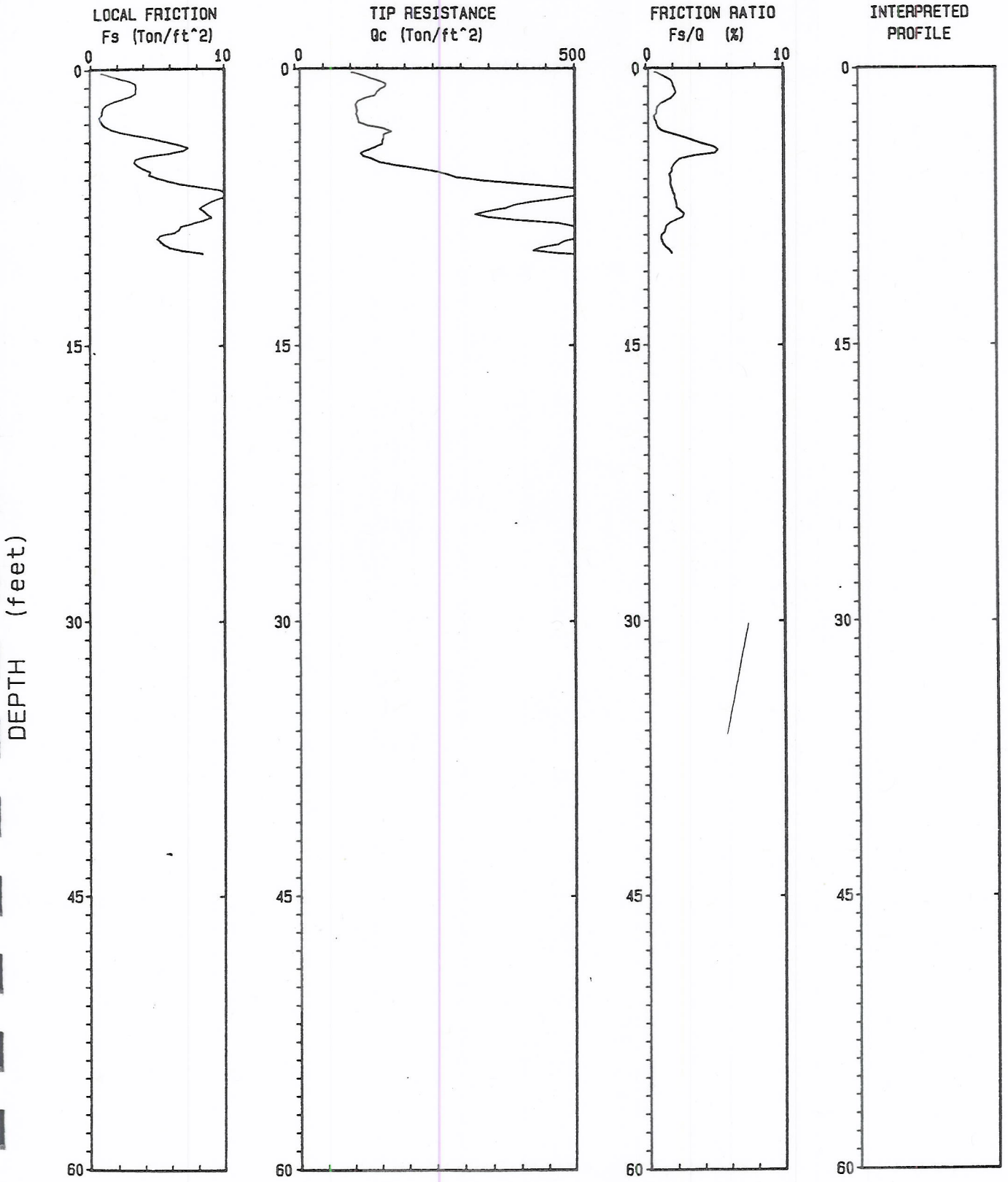
Depth Increment : .05 m

Max Depth : 6.40 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-056 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 09:17
Location : SWC2
Job No. : 08-043510



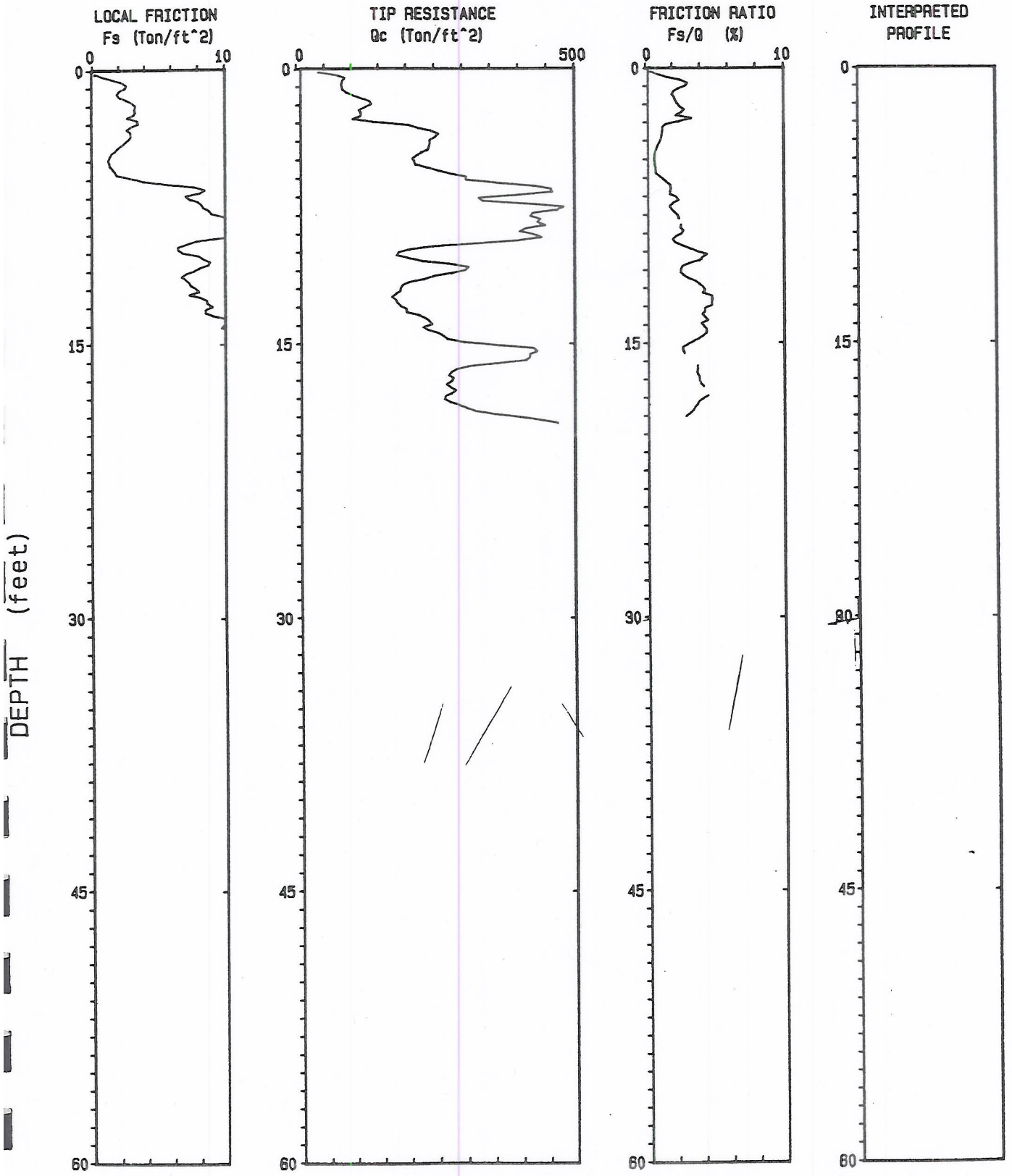
Depth Increment : .05 m

Max Depth : 10.33 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-059 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 09:56
Location : MLC1
Job No. : 08-043510



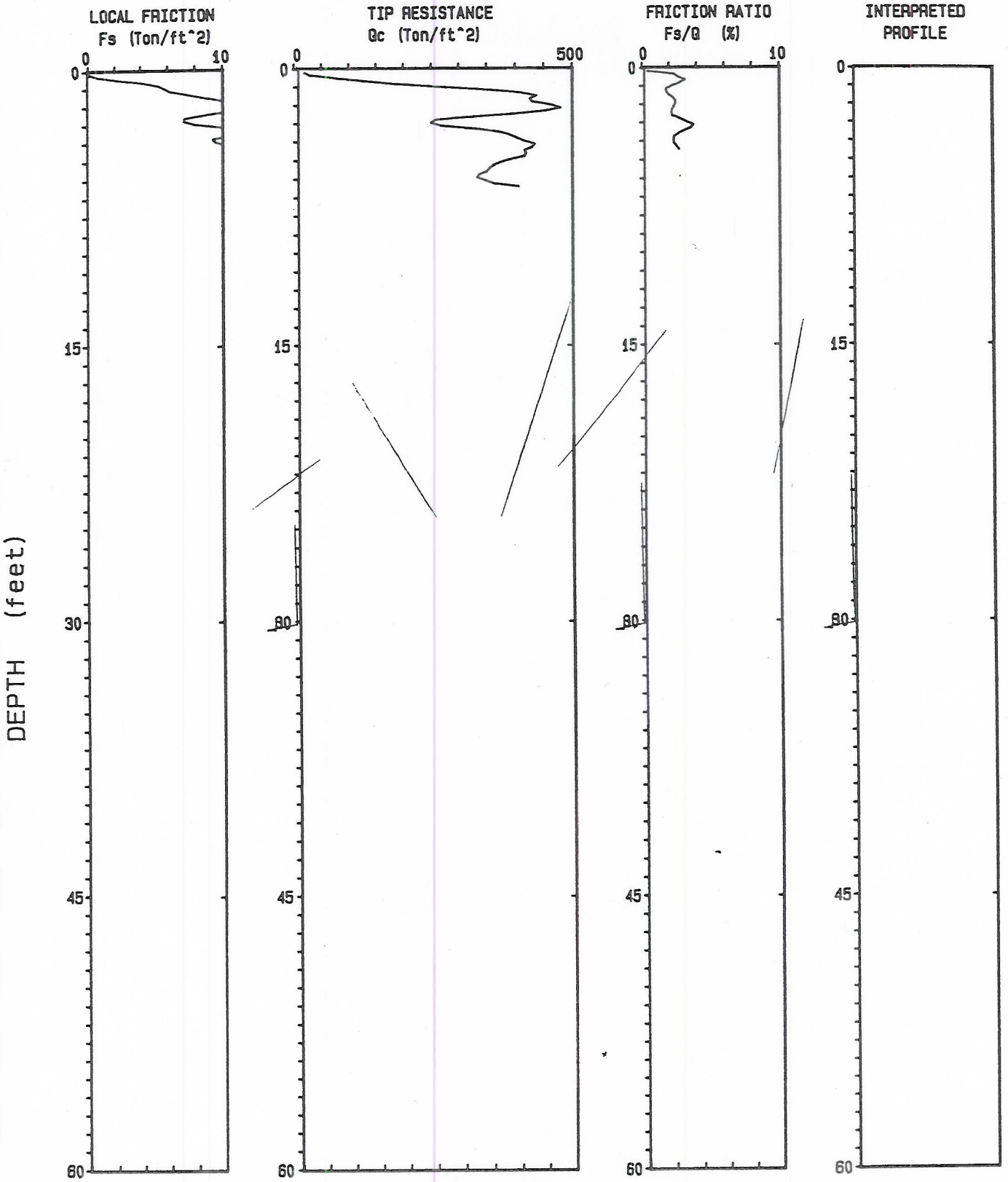
Depth Increment : .05 m

Max Depth : 19.36 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-060 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 10:21
Location : MLC2
Job No. : 08-043510



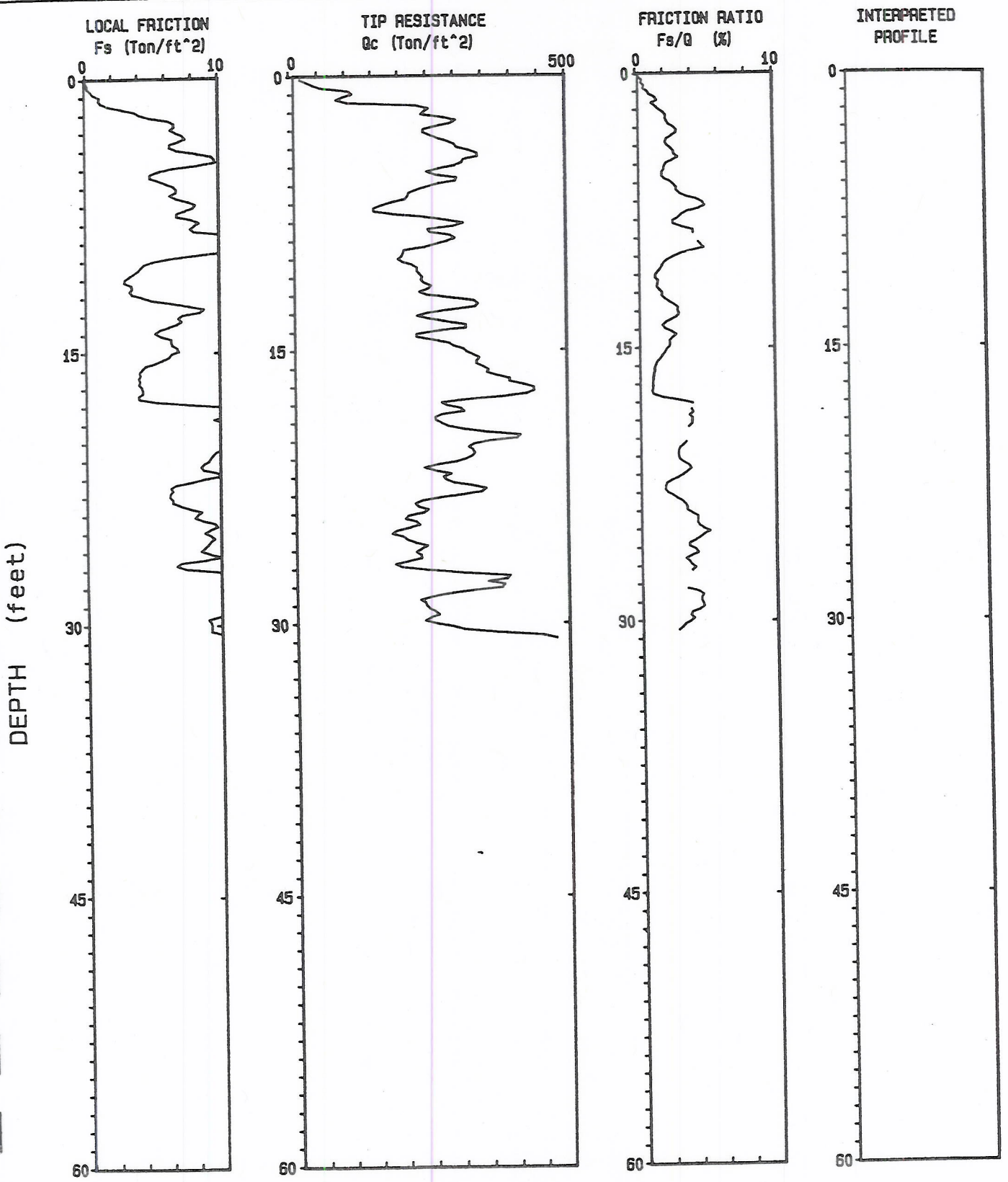
Depth Increment : .05 m

Max Depth : 6.40 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-061 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 10:47
Location : MLC3
Job No. : 08-043510



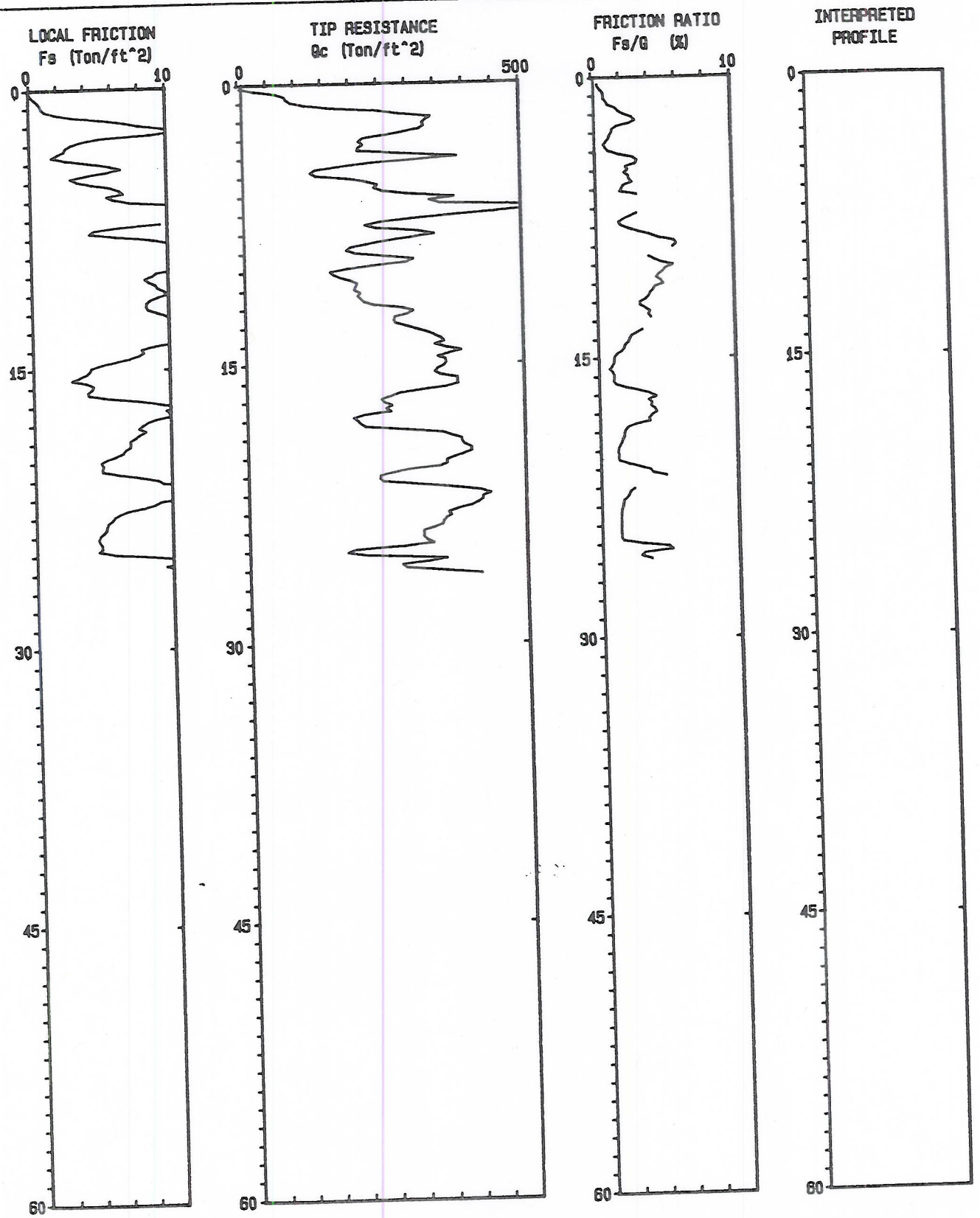
Depth Increment : .05 m

Max Depth : 30.84 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-063 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 11:44
Location : MLC4
Job No. : 08-043510



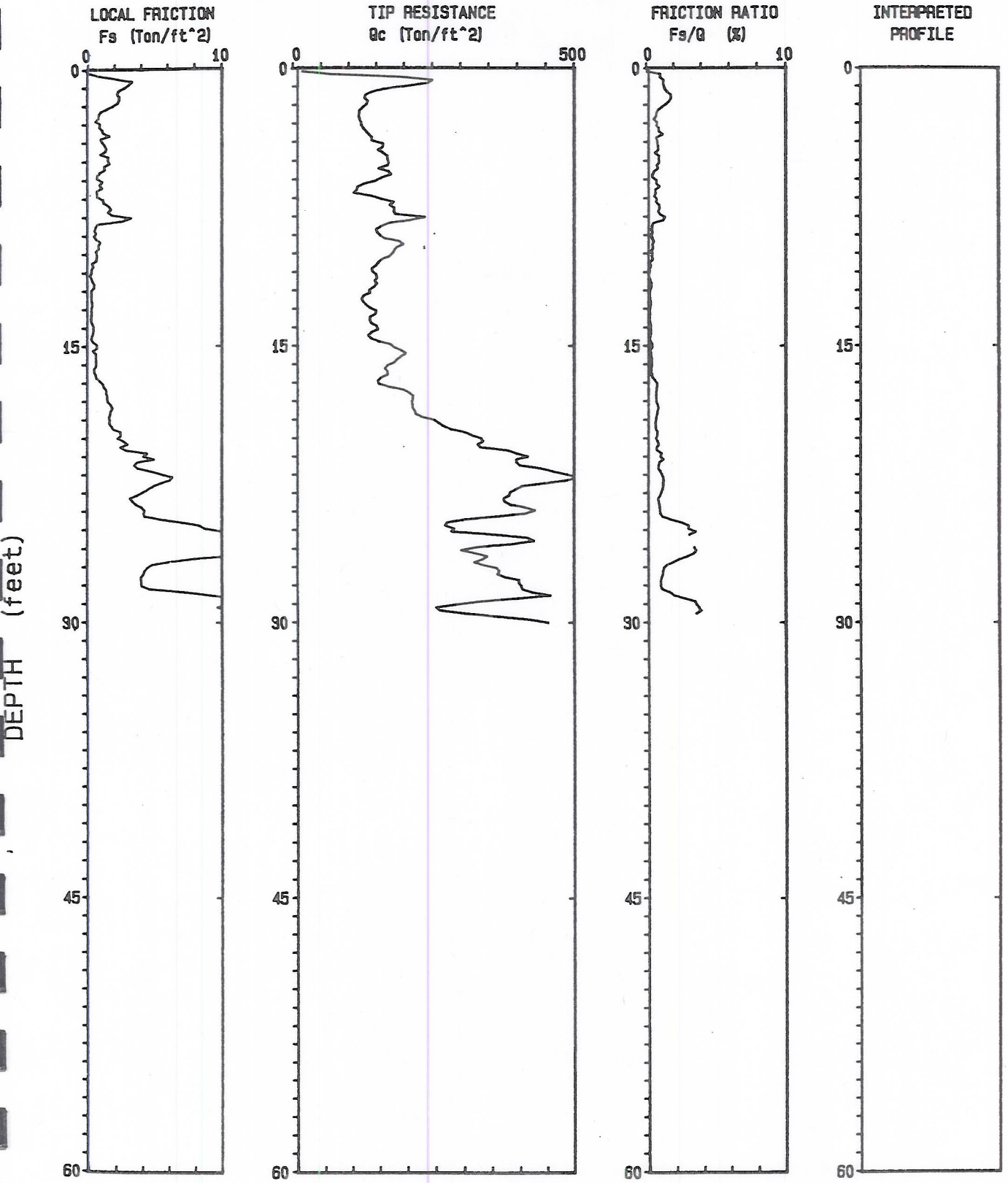
Depth Increment : .05 m

Max Depth : 26.25 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-062 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 11:21
Location : MLC5
Job No. : 08-043510



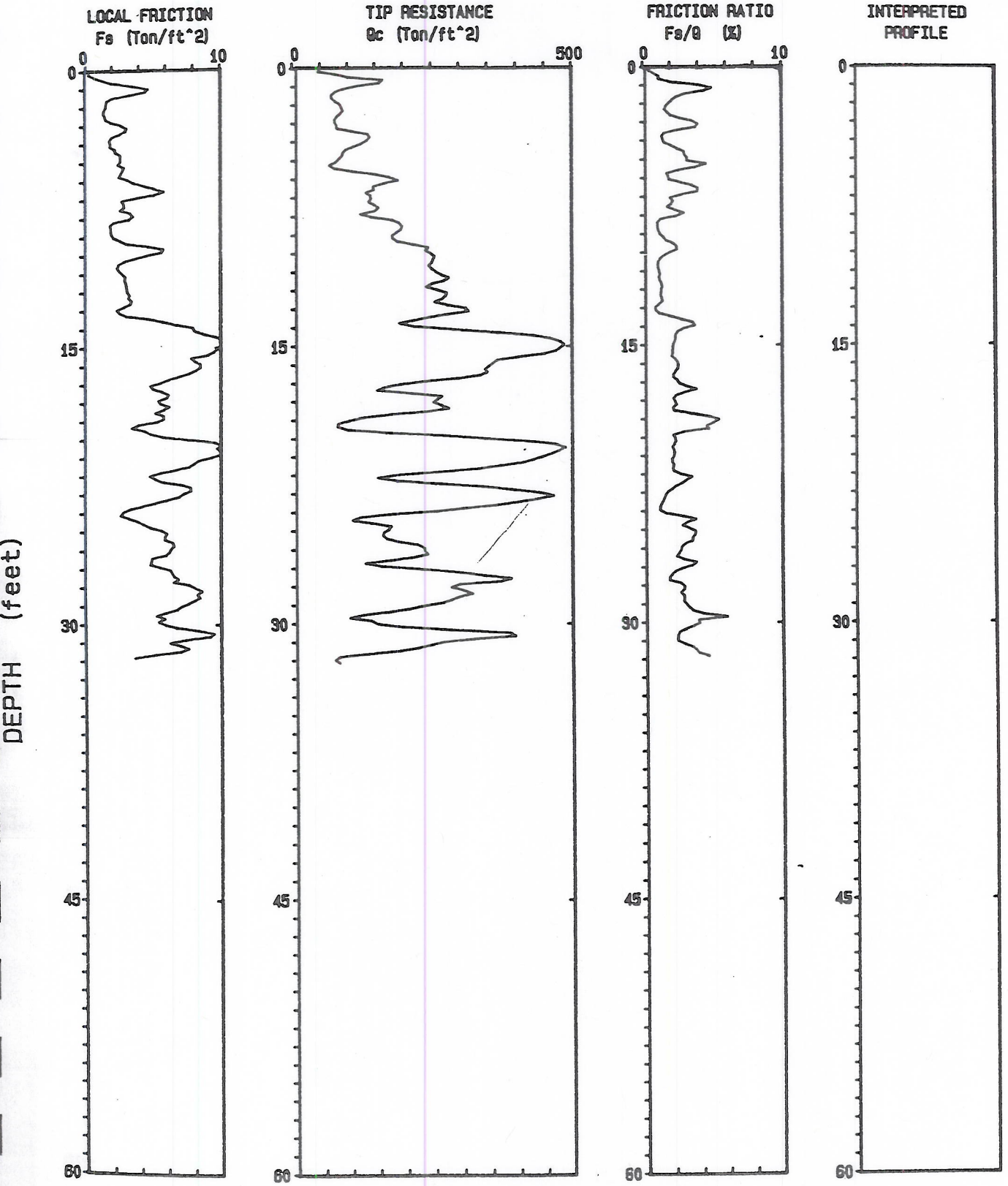
Depth Increment : .05 m

Max Depth : 30.02 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-064 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-05-02 12:08
Location : MLC6
Job No. : 08-043510



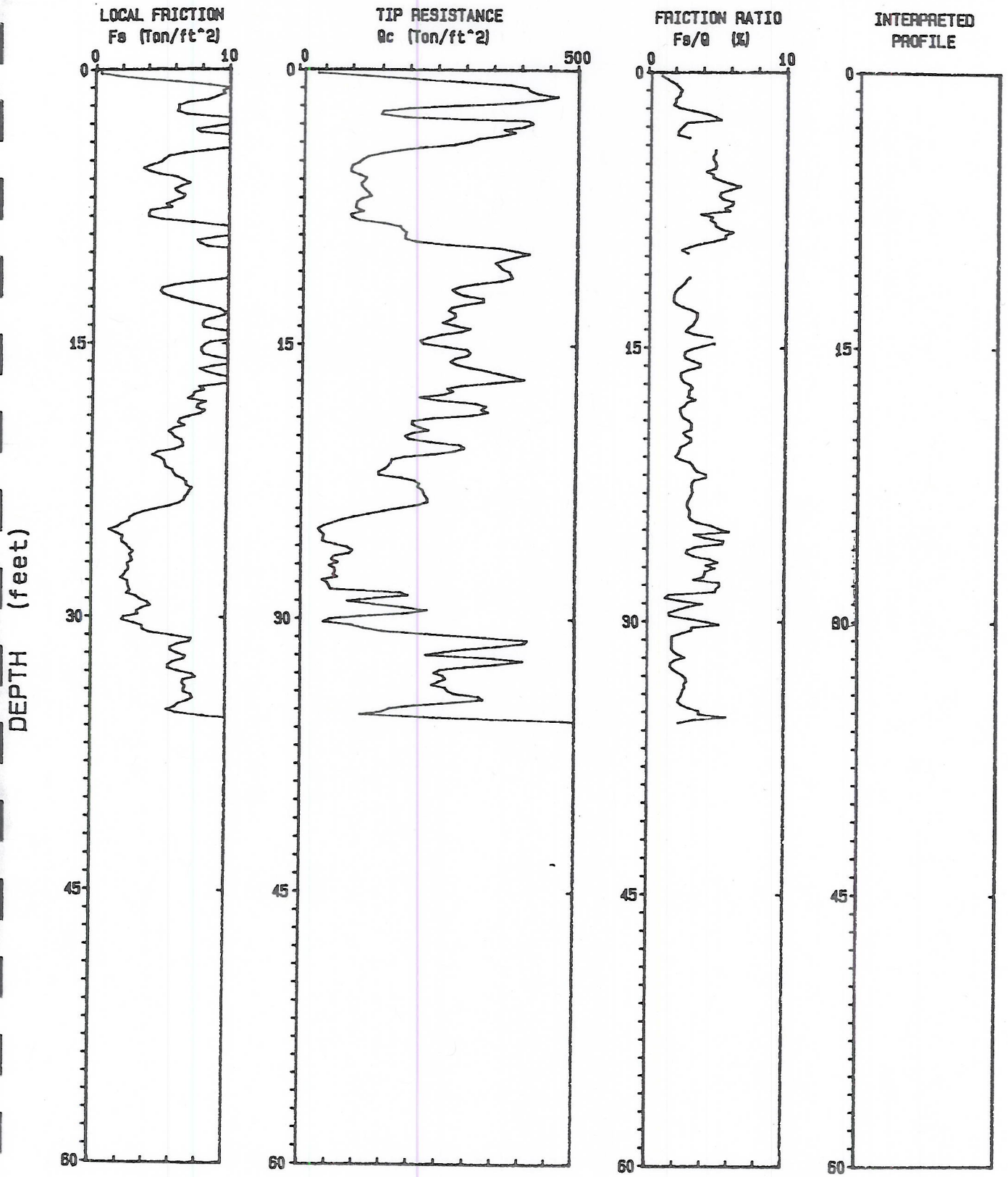
Depth Increment : .05 m

Max Depth : 32.15 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-065 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-06-02 07:40
Location : LWC1
Job No. : 08-043510



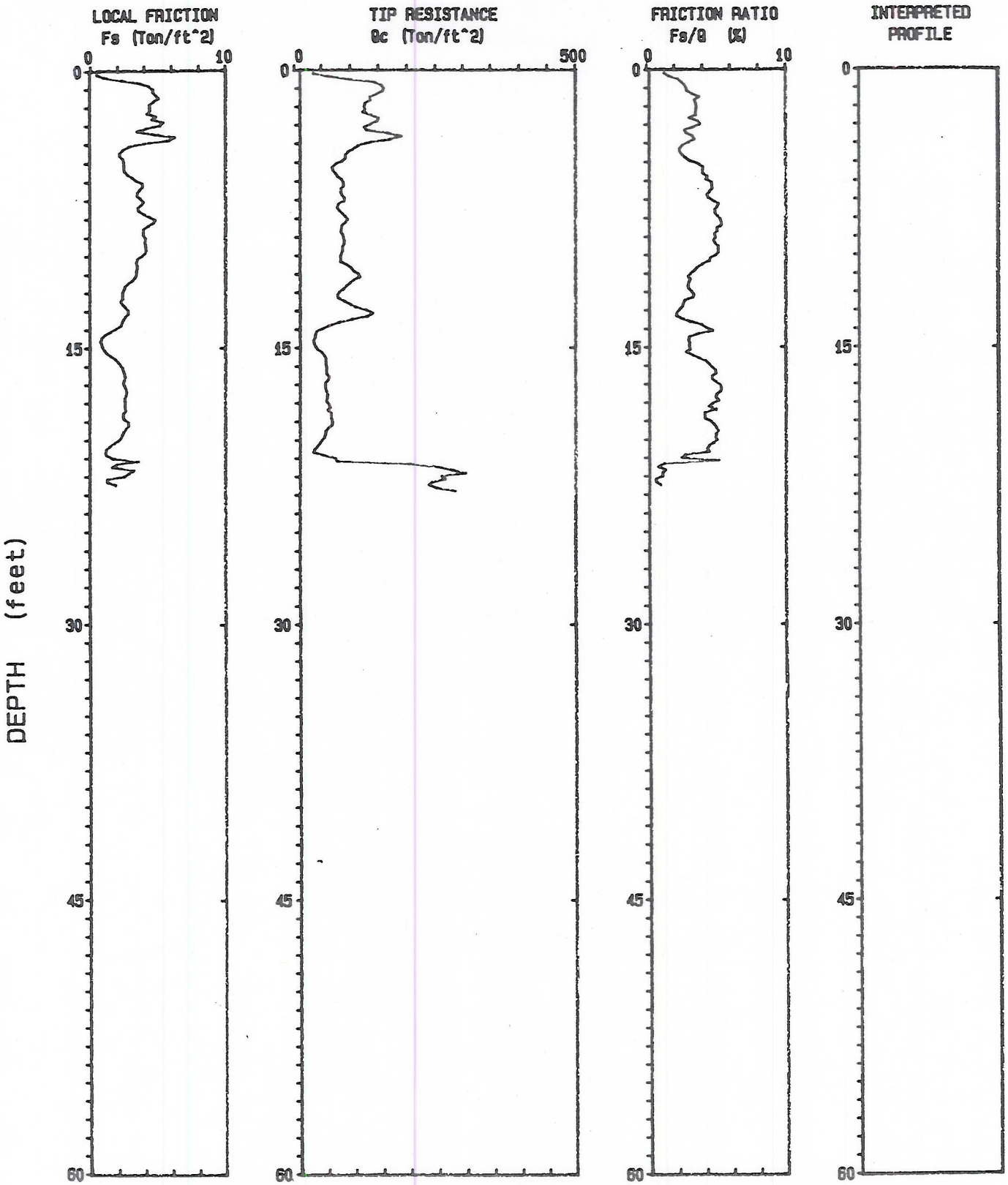
Depth Increment : .05 m

Max Depth : 36.09 ft

FOUND. TEST. & INST.

Operator : TOTH/SQUIRE
Sounding : 02-069 Pg 1 / 1
Cone Used : 777 TC

CPT Date : 02-06-02 08:36
Location : LWC3
Job No. : 08-043510



Depth Increment : .05 m

Max Depth : 22.80 ft

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 5-2-13 DATE

PLANS APPROVAL DATE

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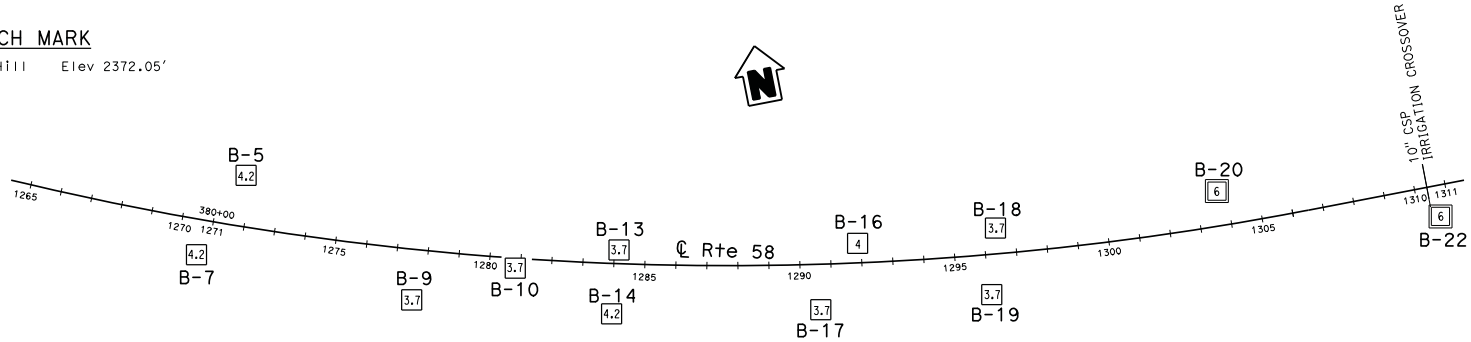
PROFESSIONAL GEOLOGIST Chris Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

BM Hinkley Hill Elev 2372.05′

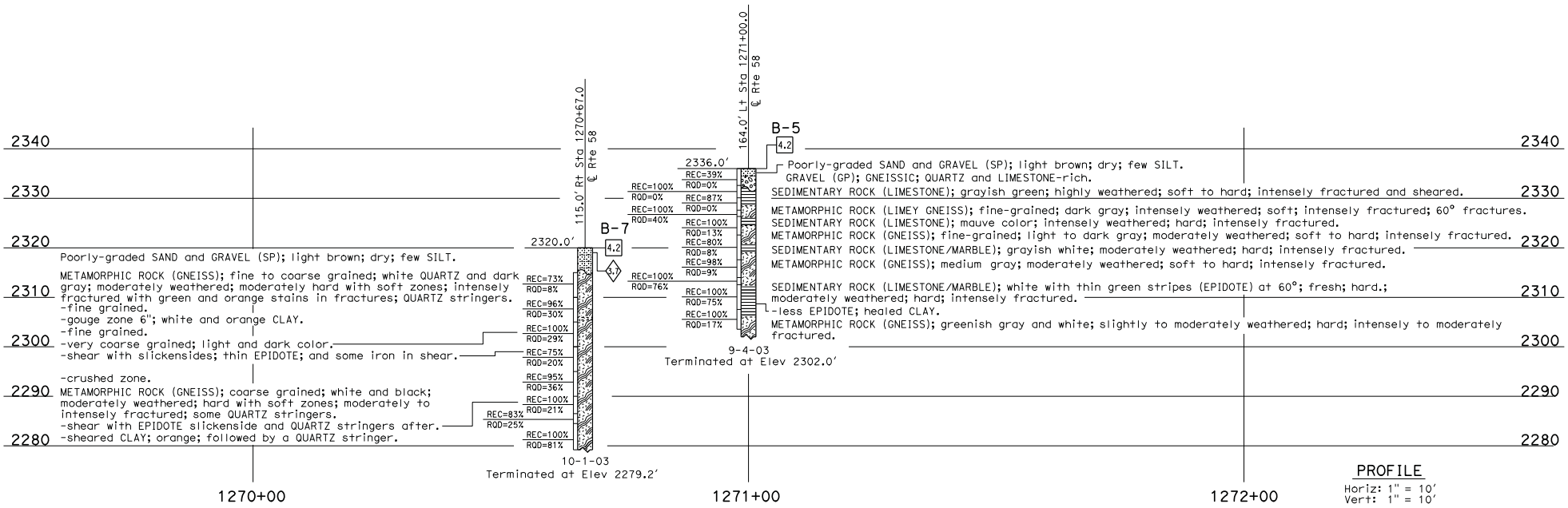


PLAN

1" = 200′

Notes:

1. No ground water encountered during field investigation.
2. Boring numbers to correlate with year 2002 borings.



PROFILE

Horiz: 1" = 10′
Vert: 1" = 10′

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 1 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES 05-02-13

REVISION DATES	SHEET	OF
	X	X

FILE => hinkley-realign1of6.dgn

USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST — DATE 5-2-13

PROFESSIONAL GEOLOGIST — Chris Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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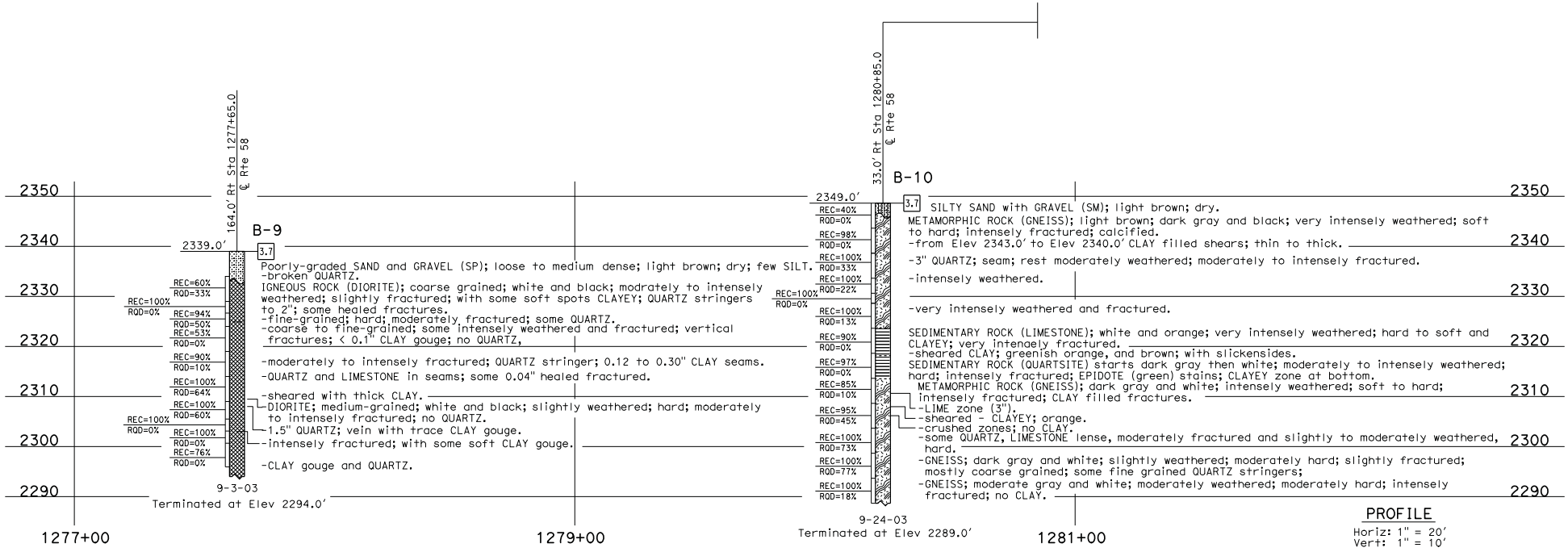
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 6"



PROFILE
Horiz: 1" = 20'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 2 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 05-02-13

REVISION DATES			SHEET	OF
05-02-13			X	X

FILE => hinkley-realign2of6.dgn

USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 5-2-13 DATE

PLANS APPROVAL DATE

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PROFESSIONAL GEOLOGIST Chris Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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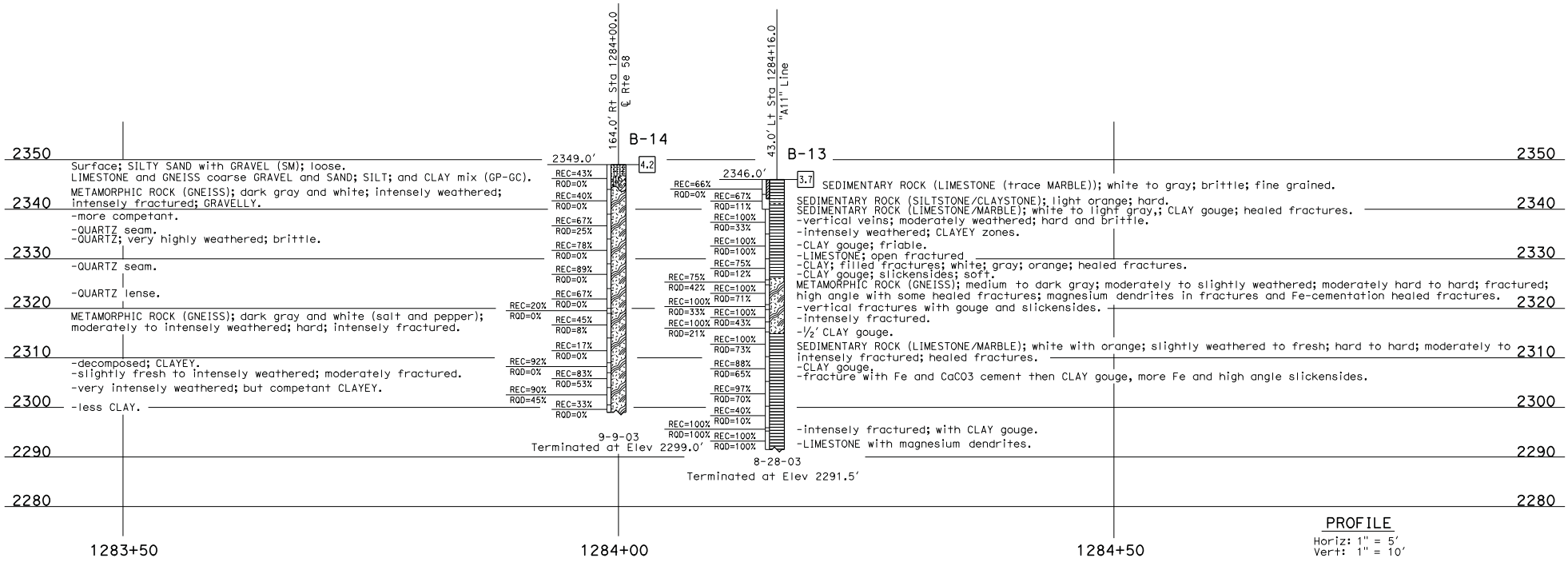
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 6"



PROFILE
Horiz: 1" = 5'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 3 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 05-02-13

REVISION DATES			SHEET	OF
05-02-13			X	X

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USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 5-2-13 DATE

PLANS APPROVAL DATE

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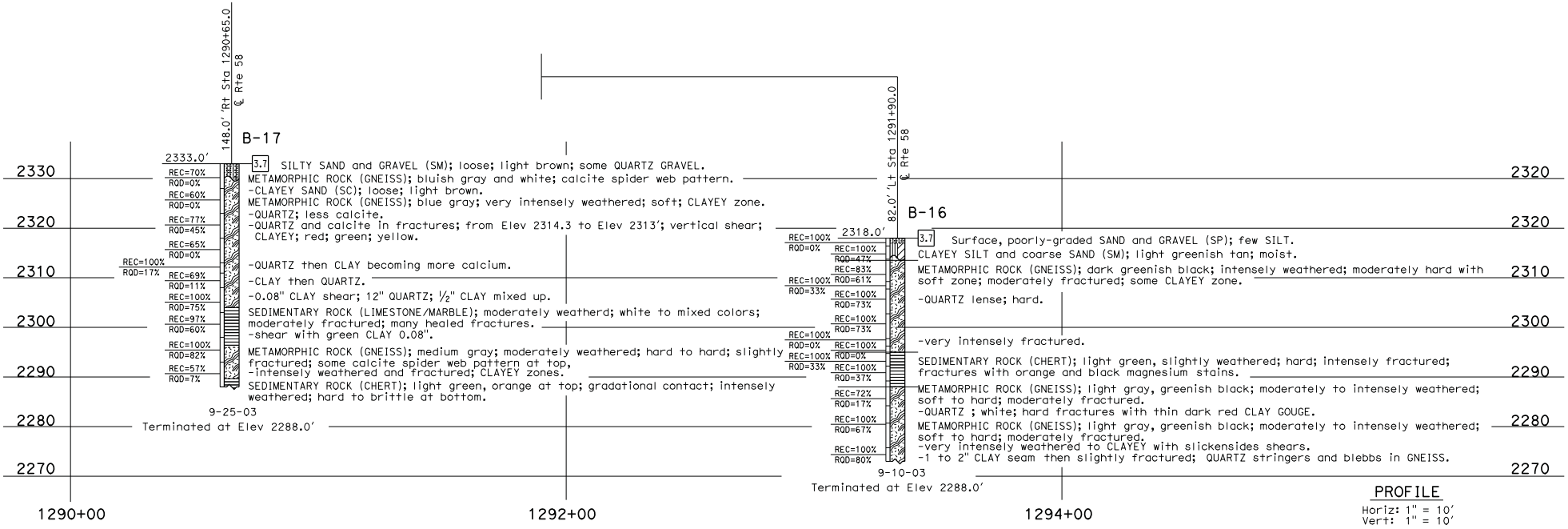
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 6"



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 4 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 05-02-13

REVISION DATES | SHEET X | OF X

FILE => hinkley-realign4of6.dgn

USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 5-2-13 DATE

PROFESSIONAL GEOLOGIST Chris Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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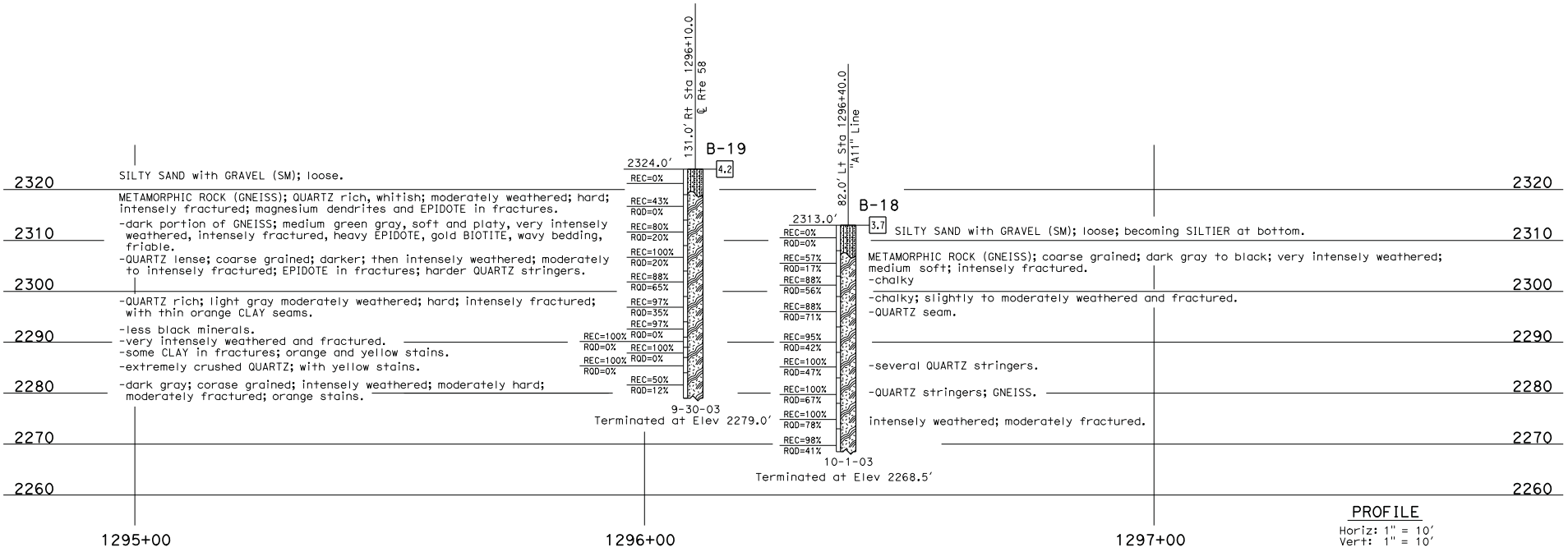
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 6"



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 5 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES			SHEET	OF
05-02-13			X	X

FILE => hinkley-realign5of6.dgn

USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 5-2-13 DATE

PROFESSIONAL GEOLOGIST Chris Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

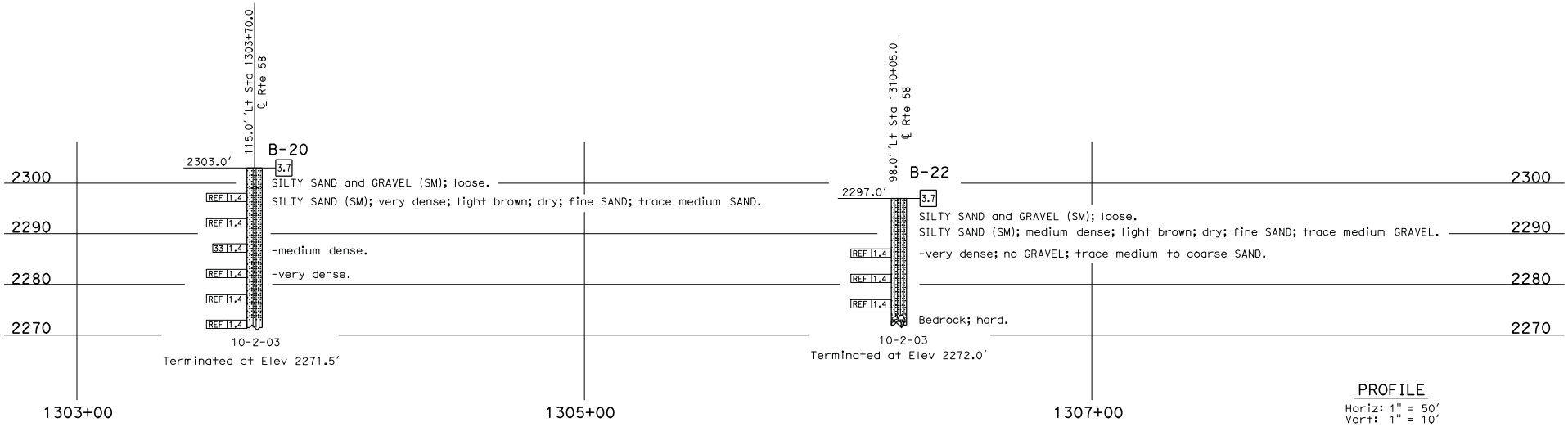
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 6"



PROFILE
Horiz: 1" = 50'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 22.2/31.1	HINKLEY REALIGN LOG OF TEST BORINGS 6 OF 6
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: F. Nguyen CHECKED BY: ?	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 08000000100 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 05-02-13

REVISION DATES			SHEET	OF
05-02-13			X	X

FILE => hinkley-realign6of6.dgn

USERNAME => s128198 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 08:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 3-15-13

PLANS APPROVAL DATE

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PROFESSIONAL GEOLOGIST Christopher Hoadley No. 2309 Exp. 11-30-13 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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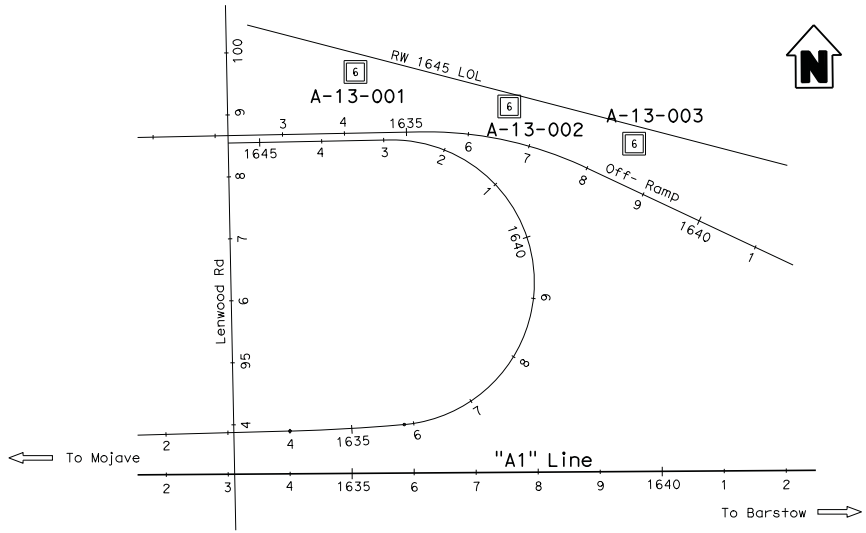
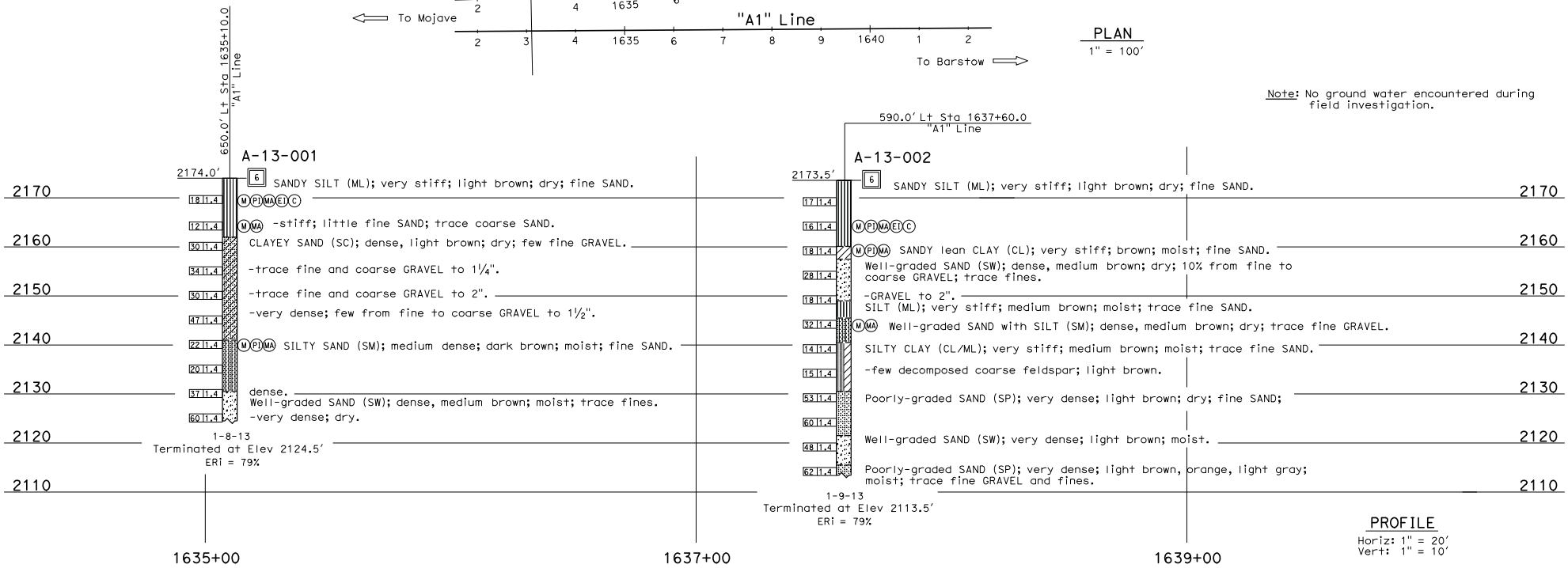
BENCH MARK

Elev 2177.58
Brass disk #305, APT NE Curb, 3' behind curb, along NB Leanwood, N Hwy 58, "GPS SBd 58, PM R30.5"
NGVD29.



PLAN
1" = 100'

Note: No ground water encountered during field investigation.



PROFILE
Horiz: 1" = 20'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 30.5	RETAINING WALL NO. 1645 LOG OF TEST BORINGS 1 OF 2
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: W. Tang 02/13 CHECKED BY: M. Wilson	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0800000010 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES			SHEET	OF
03-08-13	03-15-13		X	X

FILE => rw1645-1of2.dgn

USERNAME => s128444 DATE PLOTTED => 22-MAR-2013 TIME PLOTTED => 10:35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	58			

CERTIFIED ENGINEERING GEOLOGIST 3-15-13

PLANS APPROVAL DATE

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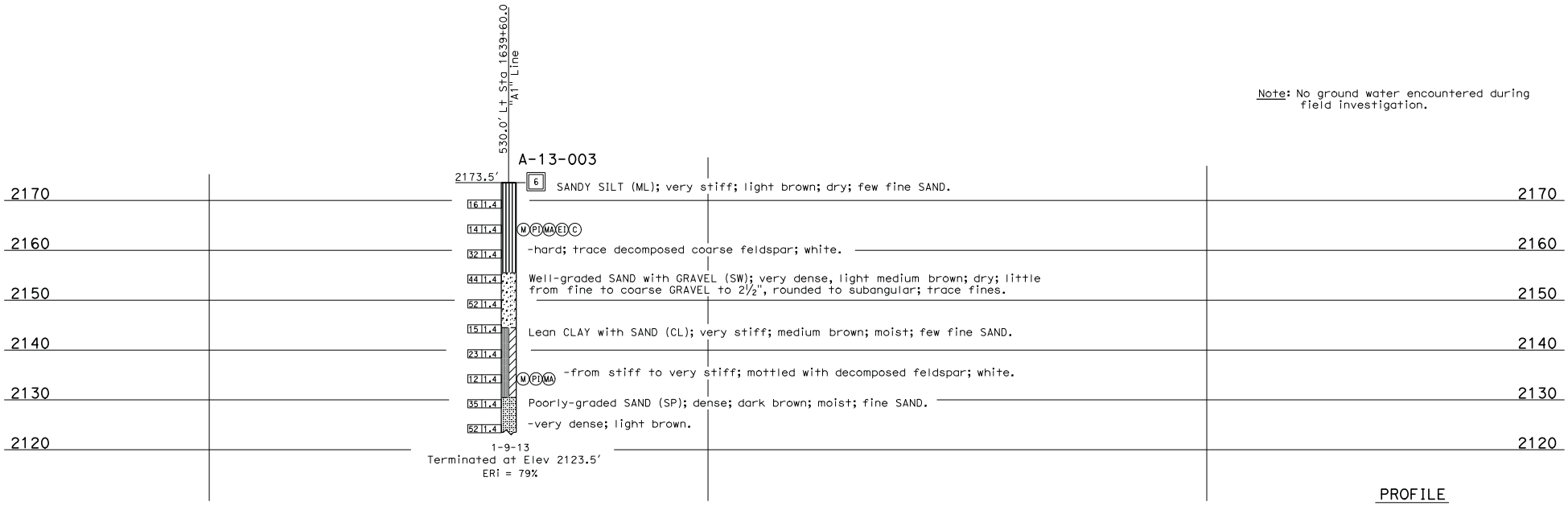
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 2"

Note: No ground water encountered during field investigation.



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	BRIDGE NO. / POST MILE 30.5	RETAINING WALL NO. 1645 LOG OF TEST BORINGS 2 OF 2
FUNCTIONAL SUPERVISOR NAME: S. Wei	DRAWN BY: W. Tang 02/13 CHECKED BY: M. Wilson	FIELD INVESTIGATION BY: C. Hoadley			

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0800000010 CONTRACT NO.: 08-043510

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES | SHEET X | OF X

FILE => rw1645-2of2.dgn

USERNAME => s128444 DATE PLOTTED => 22-MAR-2013 TIME PLOTTED => 10:35