STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
Form HC-10A (Rev. 6/80)

Job Stamp
04-0120F4
SFOBB SAS

Construction Calendar no. 477
Project working days no. 687
Date 04/03/2008
Inspectors Hours Start 7:00 Stop 18:00
Shift Hours Start 6:30 Stop 17:00

Assistant Structure Rep.'s Daily Report

Location & Description of Operation	SAS-Temporary towers, Tower A & B foundation
Weather	HI: 63 F Low: 44 F Partly cloudy

Equipment and/or labor			Hours – ITEM no.							Remarks
Eqip no.	# personnel	Description (of equipment or labor)	Regular	OT	DT	Rental			IDLE	
D12-261	C	Manitowoc – 4100 W								T.D.
7-154	C	CAT – IT28B loader								T.D.
30-196	C	Lincoln Electric 300D generator								T.D.
549-20-6031	R	DCA25USI MQ power generator								For trailer (T.D.)
7R24999	C	F-150 pick-up								T.D.
L-270	C	D185Q Sullivan Palatek compressor								T.D.
246-01-6015	R	John Deere 9000lb Excavator								T.D.
	1	Richard Hiebert								Foreman (T.D)
	1	Ron Lindsey								Foreman (T.D.)
	1	Adam Price								Pile Driver (T.D)
	1	Duck Brewer								Pile driver (T.D)
	1	Bill White								O.E. (T.D)
	1	Ken White								O.E. (T.D)
	1	Chris Brewer								Laborer (T.D.)
	1	Richi Hiebert								Laborer (T.D.)
AC-40	C	VHP 750 Ingersoll Rand compressor								Drill Tech
8M70628	C	2500 Dodge Ram								Drill Tech
UG63505	C	Ford F-800								Drill Tech
	C	Compact drill-rig								Drill Tech
	C	Batter drill platform								Drill Tech
	1	Brad Middleton								Foreman (Drill Tech)
	1	Gerado Trujillo								Drill Tech
	1	Sistos Aguirre								Drill Tech
	1	Ulises Aguilar								Drill Tech
	1	Luiz Martinez								Drill Tech
	1	Ishmail Leon								Drill Tech
	1	Nicolas Leon								Drill Tech

Description of Operation:

- Daily activity of contractors
  - Drill tech placed 6 vertical micropiles and 2 batter piles and 8 casings (see Fig 1).
  - Drill tech grouted holes (see Figs 2 and 3)
  - Drill tech pumped the water which was found in holes # 2, 3 and 6 (see Fig 4).
  - ABF crews surveyed the elevation of the micropile and casing (see Attachment #1 and Fig 5).
  - See Art Pannu, Damon Brown, Gina Rizzardo, Thanh Le and Abdikarim Ali's diaries for additional contractors' activities and comments.

REC'D '08 APR-24 #004338

- Note
  - On-site from 10:00 to 16:00.
  - Talked to Brad Middleton, a foreman of drill tech, and Bill O'Sullivan, a project engineer from ABF, that Caltrans advise contractors to use some kind of adhesives in order to have better bonding.
  - Performed California test 541 and the time is 13.64 second, which is larger than 11 second required in Spec.
  - Checked the tip elevation of micropiles and casing using tape measurement with Ali (see Attachment #1).
  - Bill O'Sullivan and Manuel told me that one of the micropile tip elevation is 75mm offset from the designed elevation which is larger than the tolerance, i.e. 50mm, and that they don't think it can affect the capacity of the pile.
  - Informed Art that T.D. will change oil and glasses of the crane on April 5 (Saturday). Art mentioned that we don't have to be on-site.
  - ISI, a subcontractor of T.D. is on site, and performed California test 541 (around 13 seconds) and collected 9 cubes for strength test (see Fig 6).
  - Mentioned Art that maximum and minimum elongation should be one of criteria for accepting the micropile per PTI. Art indicated that he already talked to geotech. Engineer concluding it is not necessary.
  - 2 ½ O.T. due to field activity and review of submittal on TT erection procedure.

Fig 1. Drill tech crews placed micropiles and casings.

Figs 2 and 3. Grouting by Drill tech

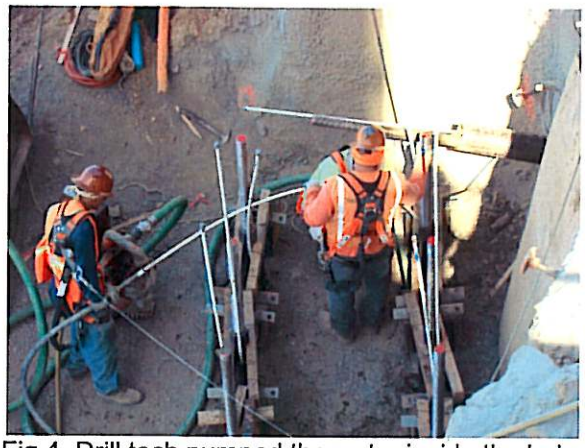

Fig 4. Drill tech pumped the water inside the hole.

Fig 5. ABF surveyors conducted surveying on tip of micropiles and casings.

Fig 6. ISI prepared samples for strength testing.

Inspector:
SeongHyeok Song _____ Trans Engineer (Civil) / Asst. Struct. Rep ___

Attachment #1

A1 Micro Pile Pre Grout As Built

4/ 3/08

provided by MBJ

1#Design P Design Pt Il	Stake Nor Stake North	Stake Eas Stake East	Design Elv Design Elev	Stake Elv Stake Elev	Cut Cut	Fill Fill	Desc Desc	Stake Pt# Stake Pt ID	Delta X Delta X	Delta Y Delta Y
5035	647502.473	1836179.142	18.904	18.906	0.002		5035 CHK	16000	0.002	0
1	647525.219	1836228.86	6.03	7.082	1.052		PILE1 C-1.047 CASING	16001	0.052	0.065
2	647525.71	1836229.598	6.03	7.093	1.063		PILE2 C-1.052 CASING	16002	0.055	0.044
3	647526.196	1836230.367	6.03	7.092	1.062		PILE3 C-1.048 CASING	16003	0.027	0.019
6	647525.261	1836231.088	6.03	7.058	1.028		PILE6 C-1.016 CASING	16004	0.012	0.071
5	647524.699	1836230.321	6.03	7.078	1.048		PILE5 C-1.043 CASING	16005	0.014	0.021
4	647524.192	1836229.608	6.03	7.064	1.034		PILE4 C-1.027 CASING	16006	0.014	0.026
203	647560.634	1836287.974	2.764	2.771	0.007		203 CHK	16015	0.003	0.001

Conducted by CT.

Our Check

	Top of Pile (measured)	Differe between top of pile and casing
1	7.094	1.041
2	7.06	1.041
3	7.067	1.041
4	7.036	1.035
5	7.122	1.041
6	7.043	1.016

* Top of casing (1) = 6.990
* Top of pile (2) = 7.090
* distance between (1) and (2) = 1.0500

Note:Shot taken at top of rod. Distance from top of rod to top of casing is noted in Desc. Design elev is for top of casing.

A1 Battered Micro Piles

4/3/08

Staked Sta Staked Sta	Staked Off Staked Off	Stake Nor Stake North	Stake Eas Stake East	Stake Elv Stake Elev	Desc Desc	Stake Pt# esign Off Resign Elv R Stake Pt IDesign Off Resign Elv R
56+18.382	Left 7.349	647526.101	1836231.033	6.852	CL PILE8 END OF ROD C-0.030	16007
56+18.406	Left 6.399	647525.332	1836231.592	6.606	CL PILE8 @ CASING C-0.030	16008
56+18.420	Left 6.348	647525.298	1836231.633	6.686	TOP OF CASING PILE8 C-.100	16009
56+15.591	Left 7.394	647524.552	1836228.711	6.864	PILE7 END OF ROD C-0.030	16010
56+15.593	Left 6.580	647523.882	1836229.174	6.641	PILE7 TOP OF ROD @ CASING	16011
56+15.587	Left 6.526	647523.835	1836229.2	6.718	PILE7 TOP OF CASING C-0.100	16012
56+15.589	Left 7.183	647524.377	1836228.828	6.807	PILE7 TOP OF ROD @ CL FTG	16013
56+18.388	Left 7.170	647525.957	1836231.139	6.804	PILE8 TOP OF ROD @ CL FTG	16014

Note: Stake elev. is unadjusted.

A-1 BATTERED MICRO PILE AS-BUILT PRE GROUT

American Bridge / FLUOR
A JOINT VENTURE

PROJECT _____

SHEET _____ OF _____ DATE _____

4/2/08

△ = THEORETICAL LOCATION

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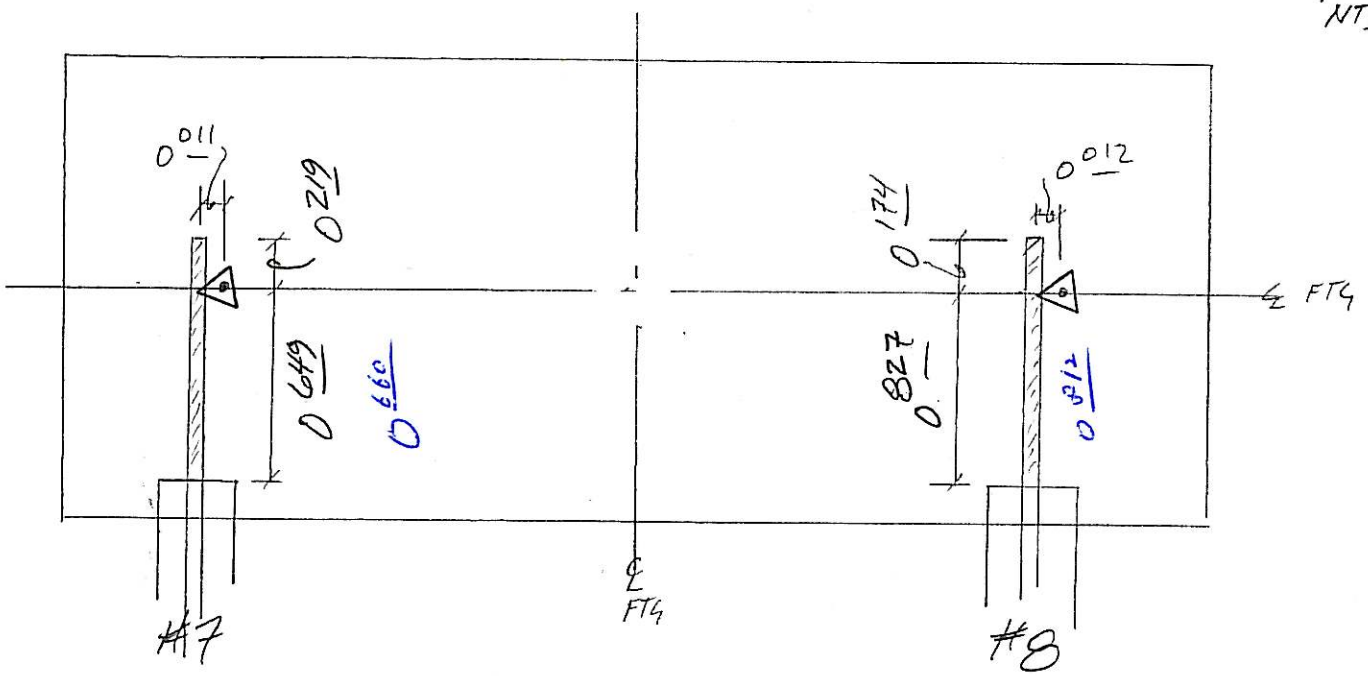
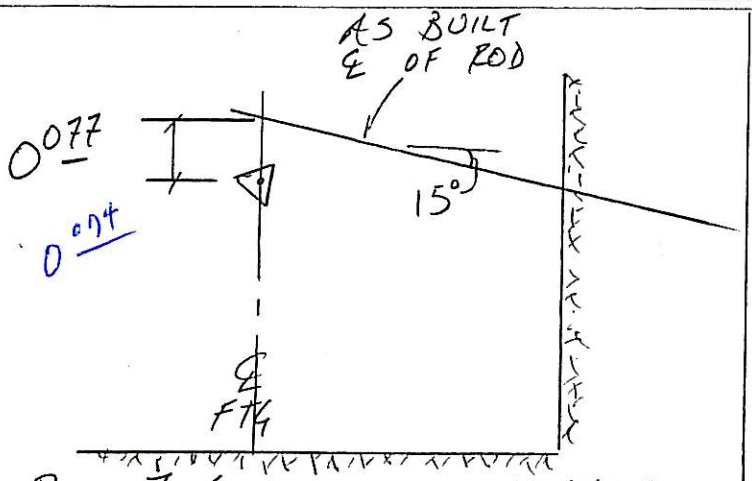
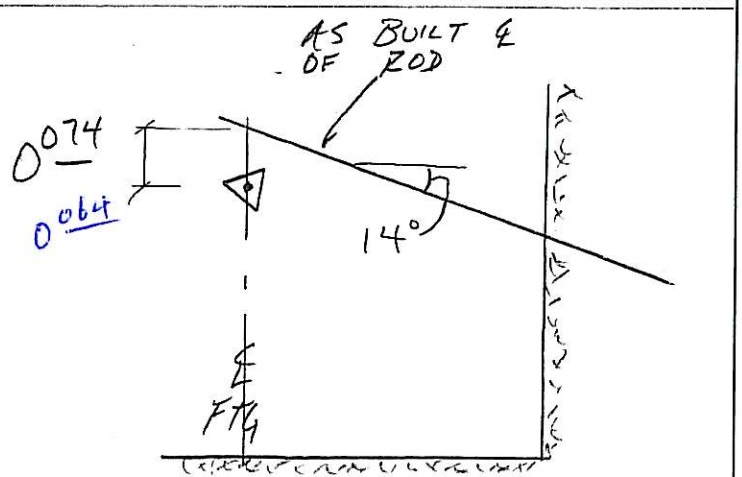
NTS



PLAN VIEW



PILE 7 SECTION LOOKING EAST



PILE 8 SECTION LOOKING EAST

NOTE: DRILL TECH ATTEMPTED TO CORRECT ELEVATION AND ANGLE AFTER AS BUILT WAS TAKEN.