

HARDAGE CONSTRUCTION

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FAX TRANSMISSION COVER SHEET

Date: June 19, 1998
To: Susan Hugo
Fax: (510) 337-9335
Re: Woodfin/Emeryville
Sender: Chuck Hibert

YOU SHOULD RECEIVE 5 Pages, INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL 209-966-8066.

Pile driving work plan for the Woodfin Suites Hotel in Emeryville.

Health & Safety Plan for monsoon ✓
Amended WP -
RWACB WP - fill materials
300
ATD 1 & ATD 1A
ATD 5

**HARDAGE CONSTRUCTION CORPORATION**

June 19, 1998

Mr. Derek Lee
San Francisco Bay Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, Ca 94612

Re: Woodfin Suite Hotel - Emeryville, CA

Dear Mr. Lee:

Mr. Paul King of RGA Environmental, Inc. has indicated that you require a "pile driving work plan" for the referenced project. The purpose is to give assurance that any contamination at the surface (top 10' feet) is not transferred to any lower aquifer.

I have enclosed a pile driving procedure outline from the subcontractor who is scheduled to perform this phase of work. Please see item number 3 under the "basic work procedure" from Foundation Construction, Inc., where it states that they will pre-drill pilot holes for the indicator piles.

Indicator piles are required for the final design of the pile length and design. We will also be able to determine the exact amount of any contamination within the materials removed and dispose of same as per our "mitigation plan" which has previously been submitted to Ms. Susan Hugo of the Alameda County Health Agency.

This pre-drill operation will also place the pile entry at a depth beyond any contamination previously found through the Geotechnic investigations, and remove concern about contaminates following the piles to a lower depth.

In addition to this; the type of materials (bay mud) noted in the Geotechnic borings as silt, silty-clay, and clay will form a impermeable bond with the dense concrete pile through the driving and friction created. This bond is also a design consideration for the type and length of piles required to support the structure.

I trust that this will satisfy your needs; please contact me or Mr. Paul King if you require any additional information.

Sincerely,

C. L. Hibert Jr.
Project Manager

Mr. Paul King
Ms. Susan Hugo

C. OVERAA & CO.

GENERAL CONTRACTORS

200 PARR BLVD., RICHMOND, CA 94801

Tel (510)234-0926 Fax (510)237-2435

TRANSMITTAL: 005.0

JOB NO.: 288800

June 18, 1998


Hardage Suite Hotels
5800 Shellmound Street
Emeryville, CA 94608
Attention: Chuck Hibert

Originator: Foundation
Sent By: Hand

Reference: Woodfin Suites Hotel
Subject: Pile Driving Operations
Transmitted: For Your Use

<u>Quantity</u>	<u>Description</u>
1 ea.	Pile driving operation plan

By:


Jim Casper
Project Manager

cc: field



FOUNDATION CONSTRUCTORS, INC.

MAIN OFFICE: P.O. BOX 94561, RAYLEIGH, CA 94561 - TELEPHONE (510) 754-6633 - FAX (510) 625-5783 Contracting Lic. No. 270761A



June 18, 1998

Mr. Jim Casper

C. Overton Construction Co.

Parr Blvd.

Richmond, CA

Re: Pile Driving Procedure - Woodfin Suites Hotel, Emeryville, CA

Dear Jim:

For this project we will be using the following equipment:

1. Linkbelt Crawler Crane Model 338 with a capacity of 100 tons.
2. 120 feet of fixed pile driver leaders attached to the boom of the crane for guiding the pile and hammer. The bottom of the leaders are attached to a hydraulic spotter.
3. Delmag Model D-30-32 diesel pile hammer with an energy rating of 69,898 foot pounds.
4. HPSI or Haaglunds hydraulic drill motor with 12" auger attached to the pile driver leaders with torque rating of 15,000 to 30,000 foot pounds.
5. Pettibone Model Super 20 rubber tired forklift rated at 20,000 pounds to be used for unloading of the concrete piles and delivering to the pile driver.
6. Air compressor rated at 195 cfm for use in cutting off the piles as necessary. This unit will have attached to it as needed a diamond blade air saw and various chipping guns and air drills.
7. A one ton truck with specialized body for use of the foreman to carry tools and supplies.
8. Pile follower as necessary to drive the piles below ground elevation to out off grade.

The basic work procedure is as follows:

1. Hold a safety meeting of the entire crew to review the site conditions, identify any specific hazards and discuss safe work practices. Additional safety meetings to be held each Monday prior to the start of the work shift.
2. Begin erecting and assembling pile driver and receive deliveries of indicator piles. The foreman is responsible for the completion of daily visual equipment inspection reports.
3. Under the direction of the soil engineer, pre drill pilot hole for indicator pile.
4. Under the direction of the soil engineer, drive indicator pile to the required tip elevation and bearing capacity. Bearing capacity to be determined from formula based upon the size of the pile hammer utilized.
5. Move pile driver to each indicator pile location and repeat Nos. 3 & 4 above until all piles are driven - approximately 2 days.
6. Await decision from the engineer as to how long to order the production piles.
7. Order production piles and wait for fabrication and cure - approximately 14 to 21 days.
8. Start receiving and unloading production piles and start drilling and driving under the direction of the soil engineer. Continue until job is completed at a rate of approximately 15 piles per day.


Mr. Jim Casper
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9. Piles that are not driven to cut off grade due to attaining bearing or refusal prior to full length will be cut off using chipping guns and diamond blade saws. Reinforcing steel or strands shall be left long enough for tie into the pile caps per specifications.
10. Dismantle crane and load onto trucks and move off after final clean up.

I hope that this explains our driving procedure clearly. I will be happy to go into further detail or answer any questions as necessary.

Thank you.

Sincerely,
FOUNDATION CONSTRUCTORS, INC.


G. J. Luthin
President