



**CIVIL & STRUCTURAL ENGINEERING**

## FIELD OBSERVATION REPORT

**To:** Havell Construction  
Kent Havell  
1618 Zinnia Circle  
Lafayette, CO 80026

**Date:** 6/1/2005      **Time:** 2:00 PM  
**Job No:** B06237      **Temp:** 68 °F  
**Project:** Kaiser Residence

**Present:** Bret E Eastman  
Victor & Tim

**Attention:** Kent Havell

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At your request we visited the site to observe the wall steel reinforcing.

\*Vertical & Horizontal reinforcing are in general conformance with plans. Mat steel located on the basement side of the wall as per plan.

\*Plywood templates with (4) threaded rods in place at 4 locations for steel moment frames. Embed threaded rods located on North East side of concrete forms can be reduced in length due to a shorter wall but require additional embedment into the footing. There are two options:

- 1) Drill and epoxy the threaded rods into the footing by 6". This is the preferred option.
- 2) Drill and epoxy #5 x 30" bars with 6" embedment at each threaded rod so there is a 24" overlap. Tie to threaded rods. (Clean holes thoroughly per mfg instructions.)

Embedded threaded rods on the South West side of building are in place per plan. However, the two south rods may be canted 5/8" in at the bottom to allow for #3 stirrup clearance from form work. 3/4" minimum clearance from the forms are acceptable at stirrups only. Please adjust all other steel to be clear of forms by 1" min.

\*#3 stirrups were not on site, contractor was in the process to attain bars to install per plan. Photo's to be provided by contractor.

\*Hold downs were present on site and in the process of being located in the form work.

\*Beam embed plate was installed per plan.

\*Elevator pit to be dug at a later date.

\*Enlarged footing in place for CMU/battered wall condition.

\*(3) Simpson templates were in place for the strong walls.

\*Contractor to vibrate concrete at moment frame locations.

\*pictures taken

Please don't hesitate to call with any questions.

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cc: File

**Signed:** Bret E Eastman