

# STRUCTCON

CONSULTING STRUCTURAL ENGINEERS

STEVE STOLL, S.E.

1700 FULTON  
FRESNO, CA 93721-1623  
TEL. (559) 266-7887  
FAX (559) 266-5368

Rocky D. Rodgers  
Director of Public Works  
1733 Ninth Street  
Reedley, CA 93654

October 25, 2005  
Project No. 20-0539

## STRUCTURAL OBSERVATION

RE: Structural observation of Grainger Building, Reedley, California.

Location: 1801 10<sup>th</sup> Street  
Reedley, CA 93654

On October 21, 2005 a visual structural observation took place for the Grainger Building. No material testing occurred.

The bearing wall system consisted of multi-wythe unreinforced brick walls and pilasters. The roof system consisted of wood trusses.

Photos 1 through 6 show the exterior of the structure. The unreinforced brick walls and pilasters are deteriorated. During the observation this manifested itself in two different ways. First the mortar joints and bricks would crumble if rubbed. Second, as seen in the attached photographs, the unreinforced brick walls and pilasters have cracks. These cracks are most prevalent at the brick pilasters, that support the roof trusses, and at the brick wall that spans openings in the wall, known as lintels. These areas are portions of the wall that higher stresses occur due to vertical loads.

Photos 7 through 9 show the interior of the structure. These photographs show that the cracks in the unreinforced brick walls and pilasters occur throughout the entire width of the wall. The wood trusses were also observed. They seem to be in good condition although the observation for them was done from the ground in a poorly lighted building.

In conclusion because of the deteriorated state of the unreinforced brick walls the structure is deemed to be unsafe.

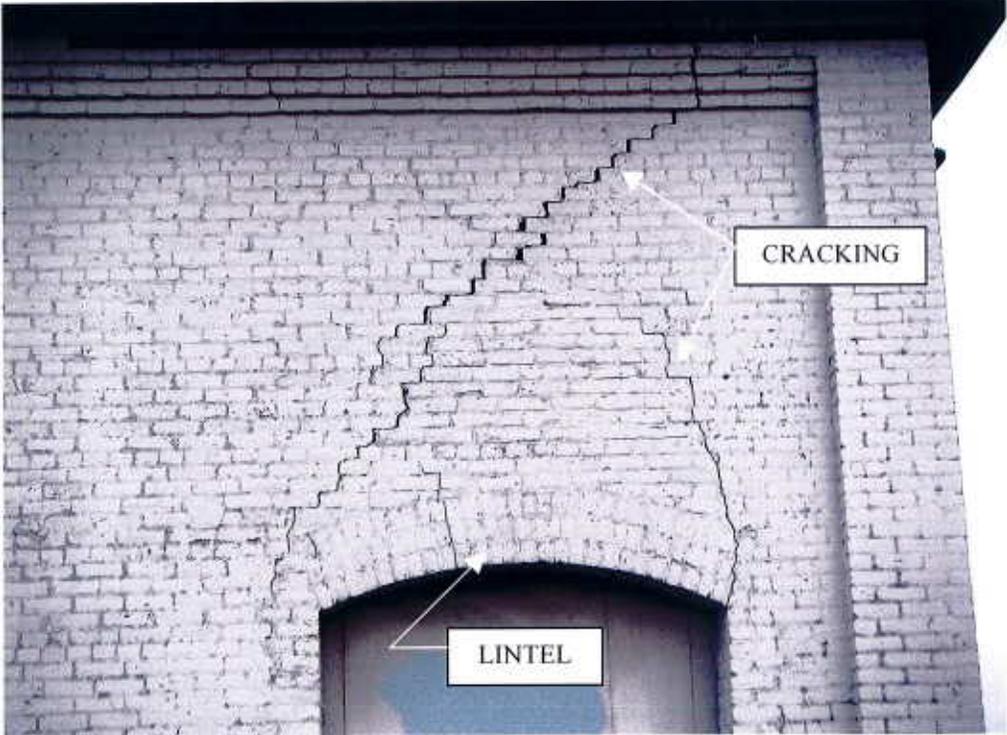
Sincerely



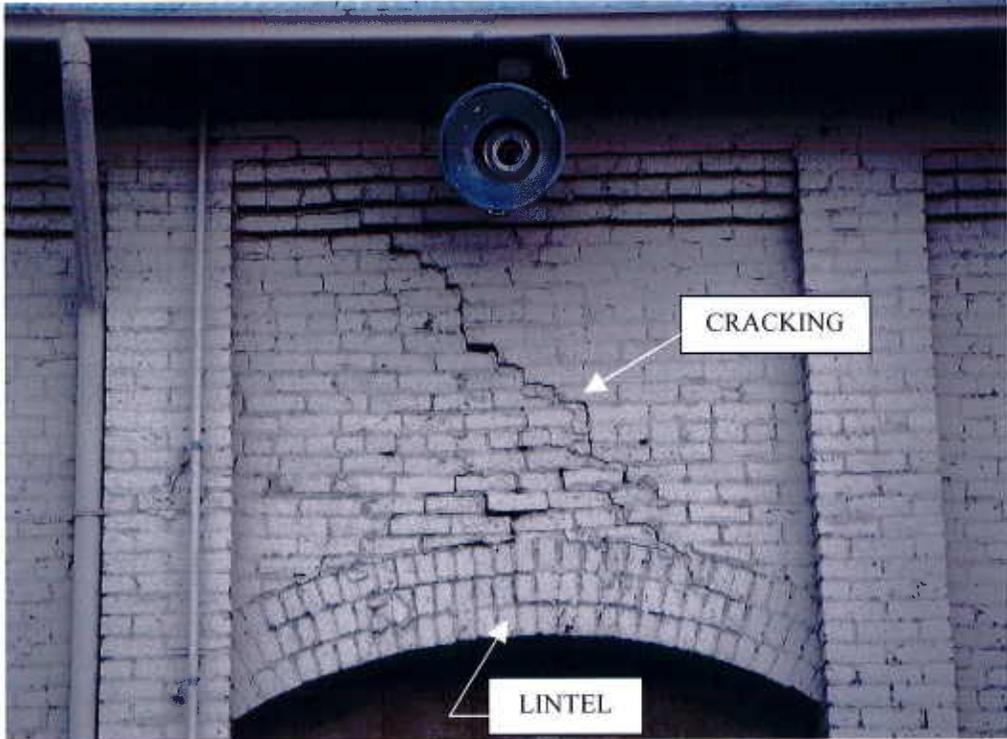
Steve Stoll  
Structural Engineer



**GRAINGER BUILDING  
REEDLEY, CALIFORNIA**



**PHOTO 1  
BUILDING EXTERIOR**



**PHOTO 2  
BUILDING EXTERIOR**

**GRAINGER BUILDING  
REEDLEY, CALIFORNIA**



PHOTO 3  
BUILDING EXTERIOR

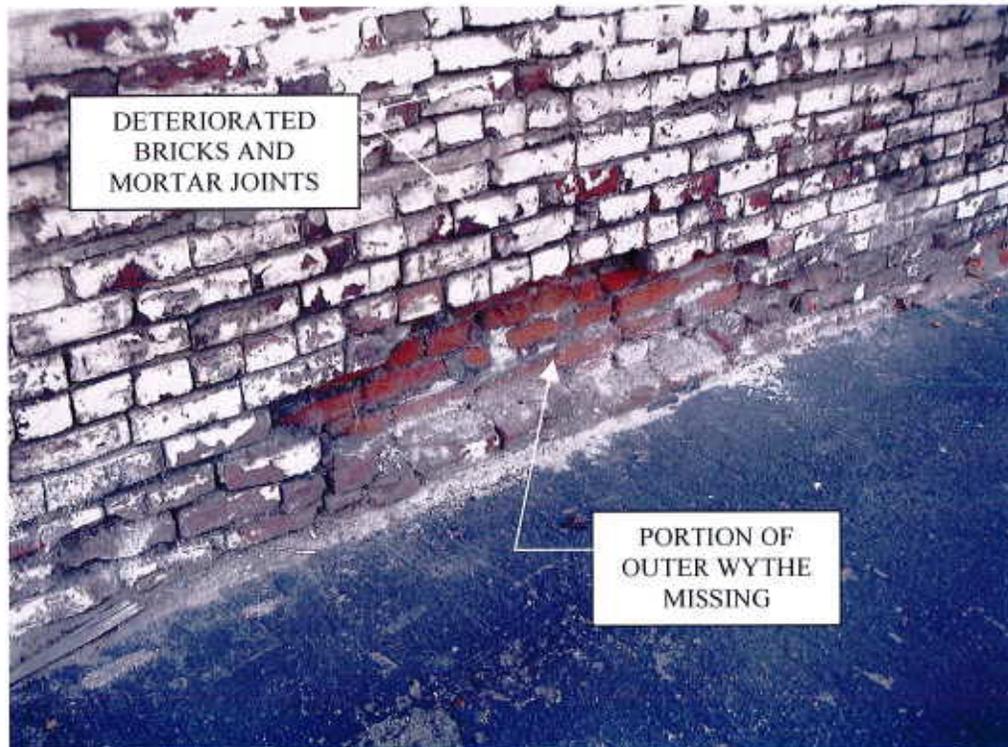


PHOTO 4  
BUILDING EXTERIOR

**GRAINGER BUILDING  
REEDLEY, CALIFORNIA**



PHOTO 5  
BUILDING EXTERIOR



PHOTO 6  
BUILDING EXTERIOR

**GRAINGER BUILDING  
REEDLEY, CALIFORNIA**

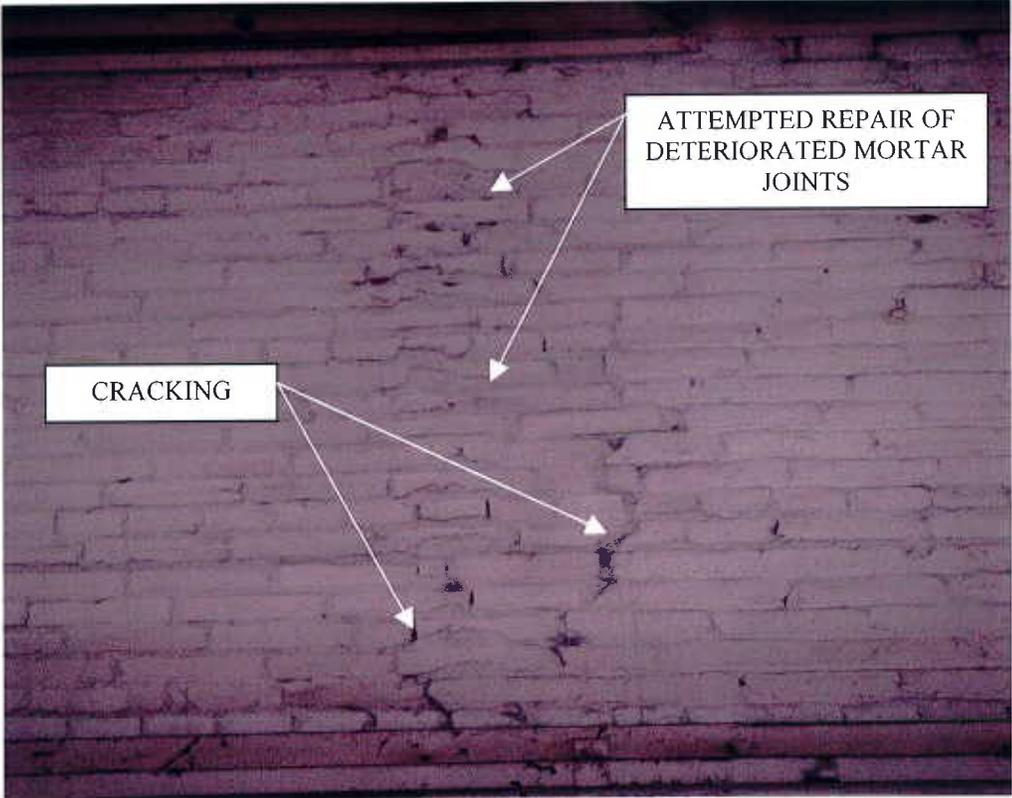


PHOTO 7  
BUILDING INTERIOR

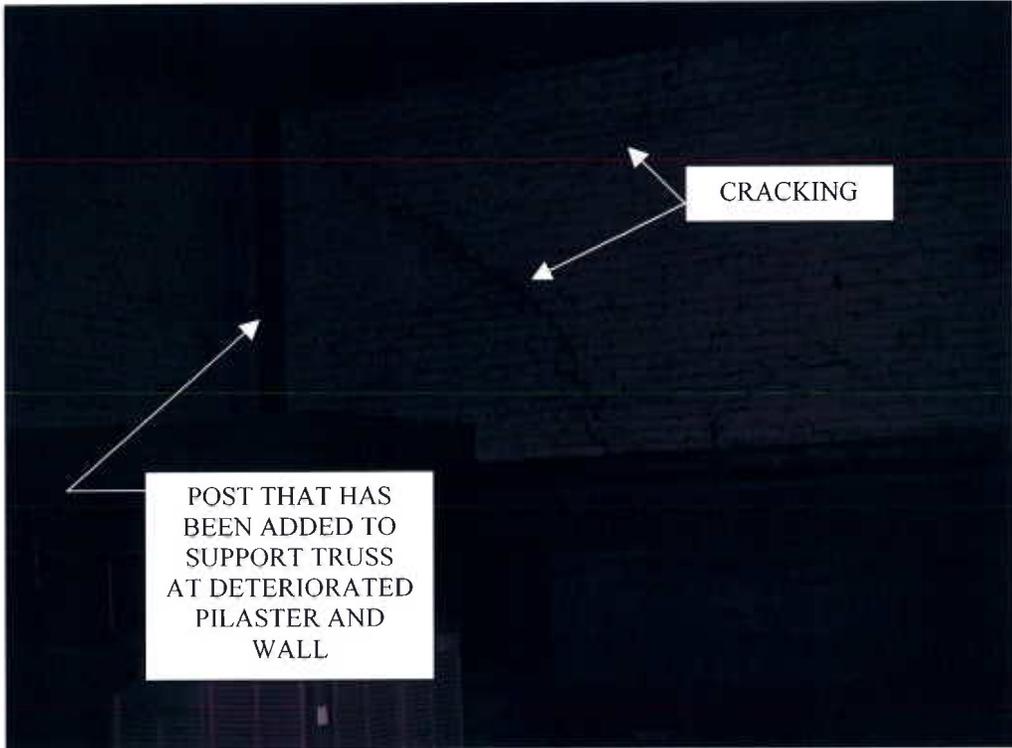


PHOTO 8  
BUILDING INTERIOR

**GRAINGER BUILDING  
REEDLEY, CALIFORNIA**



**PHOTO 9  
BUILDING INTERIOR**